



February 22, 2017

Wisconsin Department of Natural Resources

Attn: Mr. Ralph Smith
101 S. Webster Street, PO Box 7921
Madison, WI 53707



Subject:

Update Report
Four Corners Tavern
33015 County Road E
Mason, WI
BRRTS #03-04-104167

Dear Mr. Smith:

Enclosed is the latest Update Report for the above-mentioned site. The site has petroleum related soil and groundwater contamination present. This report documents the completion of the final two (2) of eight (8) post excavation groundwater sample events.

The contamination does not appear to have migrated off the subject property. Following the soil excavation, groundwater contaminant concentrations have decreased significantly. **REI is again recommending the investigation be reviewed for case closure consideration.**

Please call me with questions or comments toll free at 877-734-7745 or contact me electronically at dlarsen@reiengineering.com.

Sincerely,
REI Engineering, Inc.

David N. Larsen, P.G.
Hydrogeologist/Project Manager

Enclosure

CC: Mr. Dave Zepczyk, 33015 County Road E, Mason, WI 54856



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UPDATE REPORT

**FOUR CORNERS TAVERN
30015 COUNTY ROAD E
MASON, WI 54856**

REI PROJECT #5377



**COMPREHENSIVE
SERVICES WITH
PRACTICAL
SOLUTIONS**



UPDATE REPORT

**FOUR CORNERS TAVERN
30015 COUNTY ROAD E
MASON, WI 54856
BRRTS #03-04-104167**

**PECFA#54856-9726-78
REI #5377**

Prepared for:

**Four Corners Tavern
Mr. Dave Zepczyk
33015 County Road E
Mason, WI 54856
(715) 765-4415**

FEBRUARY 2017

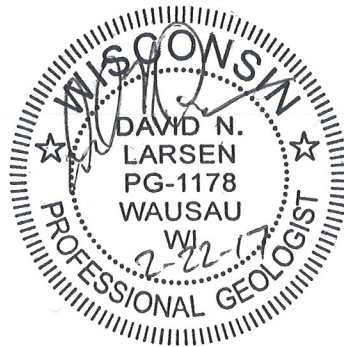
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**FOUR CORNERS TAVERN
30015 COUNTY ROAD E
MASON, WI 54856
BRRTS #03-04-104167**

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REI #5377**

The recommendations contained in this report are based on the information obtained from our study of the site and were arrived at in accordance with accepted hydrogeologic and engineering practices at this time and location.

"I, David N. Larsen, hereby certify that I am a registered Professional Geologist in the State of Wisconsin as defined in the Wisconsin Statutes Chapter 470.01. I am also a hydrogeologist as that term is defined in s. NR 712.03 (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."



"I, Andrew R. Delforge, hereby certify that I am a registered Professional Geologist in the State of Wisconsin as defined in the Wisconsin Statutes Chapter 470.01. I am also a hydrogeologist as that term is defined in s. NR 712.03 (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."



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UPDATE REPORT

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30015 COUNTY ROAD E
MASON, WI 54856
BRRTS #03-04-104167**

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1.0 INTRODUCTION

The Four Corners Tavern property is located at 30015 County Highway E in the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 01 Township 45 North, Range 5 West, Town of Lincoln, Bayfield, County, Wisconsin (Figure 1). REI had approval for two (2) additional rounds of groundwater sampling from the well network and the potable water supply well and follow-up report.

2.0 SUMMARY OF ACTIVITIES

2.1 Monitoring Well Sampling Results

A total of six (6) monitoring wells were installed during the investigation. Monitoring wells MW1R and MW2R were installed as replacement wells for wells MW1 and MW2 after the completion of the 2011 soil excavation. Locations of the wells are presented on Figure 2.

REI personnel have observed frost jacking of the wells during the site investigation activities. Groundwater elevations identified in this report may be subject to frost jacking and not representative of actual site conditions. Measured depth to groundwater and groundwater elevations are presented in Table 1. A summary of groundwater analytical results are presented in Tables 2a-g. An excess of four (4) well volumes was removed from each well prior to sampling by REI personnel. All purge water was properly disposed of at the City of Wausau waste water treatment facility. Investigative waste disposal documentation is included in Appendix A.

Groundwater samples were collected and submitted to a State certified laboratory for chemical analysis. Copies of the analytical chemistry reports are presented in Appendix B.

Groundwater sample results for the October 2016 and January 2017 sampling events document residual groundwater contamination in concentrations exceeding the NR 140.10 Groundwater Quality Enforcement Standards (ES) for petroleum compounds at sample locations MW1R and MW2R. Both wells have documented petroleum impacts throughout the history of the investigation. Contaminant concentrations have dropped substantially following the 2011 soil excavation.

The lateral extent of groundwater contamination appears to be adequately defined from the source in the up gradient direction with MW5, and side gradient with well MW3. The down gradient extent, at the water table, has been adequately defined with MW4 and MW6. A groundwater contour map was prepared for the January 26, 2017 groundwater sampling event for the water table wells (Figure 3). Figure 3 illustrates the mounding that typically occurs following a soil excavation when the native soils are clay and the excavation is backfilled with sands and gravels.

3.0 CONCLUSION AND RECOMMENDATIONS

Based on site observations and the latest analytical testing of the groundwater, it can be concluded that the groundwater contamination has been adequately defined. Monitoring wells MW1 and MW2 were abandoned prior to the soil excavation and replaced with MW1R and MW2R following the soil excavation. Analytical results from the post soil excavation sampling events document significantly decreasing trends in both wells. The remaining wells were historically non-detect for all analyzed parameters. Additionally, the previous potable water supply well, located in the southwest corner of the County Highway E and Four Corners Road intersection has been replaced with a new well located immediately southeast of the Four Corners Tavern structure. Analytical results of the new well were also non-detect for all parameters.

This site investigation is likely ready for case closure consideration. REI recommends the Four Corners Tavern site be reviewed for case closure consideration.

Table 1
Depth to Water and Water Table Elevations
Four Corners Tavern
Mason, Wisconsin

Depth to Water (feet) below Reference Elevation

Date	MW1	MW1R	MW2	MW2R	MW3	MW4	MW5	MW6
8/9/2010	8.62		3.33		3.43	2.94	6.76	2.63
9/15/2010	7.11		3.51		3.31	4.25	6.09	3.93
1/11/2011	5.94		5.78		4.68	5.33	5.97	3.24
4/27/2011	2.66		2.41		3.87	2.28	2.67	2.24
9/23/2011	abandoned	Dry	abandoned	Dry	4.80	3.85	3.33	
10/24/2011		12.18		1.99				
2/7/2012		8.78		6.70	5.04	4.37	6.95	4.13
5/8/2012		4.27		2.07	4.01	2.58	4.46	2.56
3/4/2013		5.67		3.46	7.03	5.19	7.03	5.17
10/15/14		2.62		2.20	3.16	2.91	4.16	2.83
6/7/2015		2.73		1.54	4.03	3.61	3.79	2.69
10/5/2016		3.14		2.38	1.58	2.87	4.08	3.35
1/26/2017		4.69		4.91	5.37	3.1	5.78	2.91

Measuring Point Elevations

Elevations referenced to on site benchmark (feet)

Initial Survey	99.20							
Resurvey (10-15-14)	99.06		98.47	98.53	96.07	93.25	99.36	91.6

Ground Surface Elevation

	99.38		98.74	98.93	95.31	91.08	99.67	89.42
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Depth to Water (feet) below Ground Surface

Average	6.26	6.34	4.03	3.39	3.28	1.56	5.43	1.09
Maximum	8.80	12.48	6.05	7.10	4.28	3.16	7.34	2.99
Minimum	2.84	2.92	2.68	1.94	2.40	0.11	2.98	0.06
Range	5.96	9.56	3.37	5.16	1.88	3.05	4.36	2.927

Water Level Elevation (feet MSL)

Date	MW1	MW1R	MW2	MW2R	MW3	MW4	MW5	MW6
8/9/2010	90.58		95.14		92.64	90.31	92.60	88.97
9/15/2010	92.09		94.96		92.76	89.00	93.27	87.67
1/11/2011	93.26		92.69		91.39	87.92	93.39	88.36
4/27/2011	96.54		96.06		92.20	90.97	96.69	89.36
10/24/2011		87.15		96.54				
2/7/2012		90.55		91.83	91.03	88.88	92.41	87.47
5/8/2012		95.06		96.46	92.06	90.67	94.90	89.04
3/4/2013		93.66		95.07	88.06	88.06	92.33	86.43
10/15/14		96.44		96.33	92.91	90.34	95.16	88.77
6/7/2015		96.33		96.99	92.04	89.64	95.53	88.91
10/5/2016		95.92		96.15	94.49	90.38	95.24	88.25
1/26/2017		94.37		93.62	90.70	90.15	93.54	88.69

Table 2a
Summary of Groundwater Analytical Results
MW1/MWIR
Four Corners Tavern
Mason, Wisconsin

Date ->	MW1					MWIR										
	7/28/2010	1/11/2011	4/27/2011	Sept 2011	10/24/2011	2/7/2012	5/8/2012	3/4/2013	10/15/2014	6/17/2015	10/5/2016	1/26/2017				
Dissolved Lead	15	1.5	mg/l													
VOC Parameters																
Benzene		5	0.5	µg/l	8,800	21,900	8,380	Well	Well	3,540	3,010	1,650	1,020	1,320	289	937
Toluene		800	160	µg/l	5,100	5,290	3,240	Abandoned	Dry	143	69	23.6	< 5.0	< 3.9	1.3	< 3.9
Ethylbenzene		700	140	µg/l	999	2,130	1,760	During		287	268	69	10.1	< 3.9	8.3	7.4*
Xylenes (mixed isomers)		2,000	400	µg/l	3,440	4,410	9,770	Soil		438	143.9	20.0*	< 10	< 12.5	1.95*	< 8.0
Methyl tert-Butyl Ether (MTBE)		60	12	µg/l	< 61	< 500	< 30.9	Excavation		< 12.2	< 7.6	< 7.6	< 1.7	< 4.8	0.94*	< 4.8
Trimethylbenzenes (mixed isomers)		480	96	µg/l	630	2,150	2,416			69.6	62.7	9.0*	< 5.0	< 9.1*	0.85*	< 4.2
Naphthalene		100	10	µg/l	< 89	NA	NA			NA	78.2*	10.2	< 25	< 4.2	1.3	< 4.2
1,2-Dichloroethane		5	0.5	µg/l	585	NA	NA			233	NA	NA	74.5	NA	NA	NA

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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<i>Italics</i>

Table 2b
Summary of Groundwater Analytical Results
MWZ/MW2R
Four Corners Tavern
Mason, Wisconsin

	MW2		MW2R												
	Date ->	mg/l	8/9/2010	1/11/2011	4/27/2011	Sept 2011	10/24/2011	2/7/2012	5/8/2012	3/4/2013	10/15/2014	6/17/2015	10/5/2016	1/26/2017	
Dissolved Lead		15	1.5												
VOC Parameters															
Benzene		5	0.5	9,990	13,500	Well	89.0	87.7	176	83.3	19.3	5.6	21.4	9.5	
Toluene		800	160	10,900	16,600	Abandoned	<i>212</i>	1.4	1.9	0.08*	<0.50	<0.39	<0.39	<0.39	
Ethylbenzene		700	140	1,300	1,400	During	63.7	14.9	36.4	10.7	3.7	0.88*	6.9	2.5	
Xylenes (mixed isomers)		2,000	400	11,700	23,840	Soil	364.4	5.5	2.46*	2.1	<1.0	<1.25	2.5	0.92*	
Methyl tert-Butyl Ether (MTBE)		60	12	< 250	< 122	Excavation	4.0	< 0.61	1.5	0.64*	< 0.17	<0.48	0.98*	< 0.48	
Trimethylbenzenes (mixed isomers)		480	96	3,390	3,057		<i>140.3</i>	14.5	3.5	< 4.0	< 0.50	<0.84	7.1	4.1	
Naphthalene		100	10	NA	NA		NA	NA	4.0	1.1	< 2.5	<0.42	2.5	0.66*	
1,2-Dichloroethane		5	0.5	NA	NA		NA	5.7	NA	NA	<i>1.1</i>	NA	NA	NA	

Notes:

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PAL = NRI40.10 Preventive Action Limits

Enforcement Standard exceeded

Preventive Action Limit exceeded

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Table 2c
Summary of Groundwater Analytical Results
MW3
Four Corners Tavern
Mason, Wisconsin

	Date ->		mg/l	1/11/2011	4/27/2011	Sept. 2011	9/23/2011	2/7/2012	5/8/2012	3/4/2013	10/15/2014	6/17/2015	10/5/2016	1/26/2017
	15	0.5												
Dissolved Lead	15	0.5	< 1.7	< 0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOC Parameters														
Benzene	5	0.5	< 0.41	< 0.20	< 0.41	Soil	< 0.39	< 0.39	< 0.39	Not	< 0.50	< 0.40	< 0.40	< 0.40
Toluene	1,000	200	< 0.67	< 0.40	< 0.67	Excavation	< 0.42	< 0.42	< 0.39	Sampled	< 0.50	< 0.39	< 0.39	< 0.39
Ethylbenzene	700	140	< 0.54	< 0.20	< 0.54		< 0.41	< 0.41	< 0.39		< 0.50	< 0.39	< 0.39	< 0.39
Xylenes (mixed isomers)	10,000	1,000	< 1.8	< 0.40	< 1.8		< 0.87	< 0.87	< 0.87	Under	< 0.10	< 1.25	< 0.80	< 0.80
Methyl tert-Butyl Ether (MTBE)	60	12	< 0.61	< 0.50	< 0.61		< 0.38	< 0.38	< 0.38	6' Snow	< 0.17	< 0.48	< 0.48	< 0.48
Trimethylbenzenes (mixed isomers)	480	96	< 0.97	< 0.20	< 0.97		< 0.43	< 0.43	< 0.43	Pile	< 0.50	< 0.84	< 0.42	< 0.42
Naphthalene	100	10	< 0.89	NA	NA		NA	NA	NA		< 2.5	< 0.42	< 0.42	< 0.42
1,2-Dichloroethane	5	0.5	< 0.36	NA	NA		NA	< 0.36	< 0.40		< 0.17	NA	NA	NA

Notes:

ES = NR140.10 Enforcement Standards

PAI = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

Preventive Action Limit exceeded

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**Table 2d
Summary of Groundwater Analytical Results
MW4**

**Four Corners Tavern
Mason, Wisconsin**

	Date -> mg/l	8/9/2010	1/11/2011	4/27/2011	Sept. 2011	9/23/2011	2/7/2012	5/8/2012	3/4/2013	10/15/2014	6/17/2015	10/5/2016	1/26/2017
		< 0.60	< 0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead	15												
VOC Parameters													
Benzene	5	< 0.20	< 0.20	< 0.41	Soil	< 0.39	< 0.41	< 0.39	< 0.39	< 0.50	< 0.40	< 0.40	< 0.40
Toluene	200	< 0.40	< 0.40	< 0.67	Excavation	< 0.42	< 0.67	< 0.42	< 0.42	< 0.50	< 0.39	< 0.39	< 0.39
Ethylbenzene	700	< 0.20	< 0.20	< 0.54		< 0.41	< 0.54	< 0.41	< 0.41	< 0.50	< 0.39	< 0.39	< 0.39
Xylenes (mixed isomers)	1,000	< 0.40	< 0.40	< 1.8		< 0.87	< 1.8	< 0.87	< 0.87	< 1.0	< 1.25	< 0.80	< 0.80
Methyl tert-Butyl Ether (MTBE)	60	< 0.50	< 0.50	< 0.61		< 0.38	< 0.61	< 0.38	< 0.38	< 0.17	< 0.48	< 0.48	< 0.48
Trimethylbenzenes (mixed isomers)	480	< 0.20	< 0.20	< 0.97		< 0.43	< 0.97	< 0.43	< 0.43	< 0.50	< 0.84	< 0.42	< 0.42
Naphthalene	100	< 1.0	< 1.0	NA		NA	NA	NA	NA	< 2.5	< 0.42	< 0.42	< 0.42
1,2-Dichloroethane	5	< 0.30	< 0.30	NA		NA	< 0.36	< 0.40	< 0.40	< 0.17	NA	NA	NA

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Table 2e
Summary of Groundwater Analytical Results
MW5
Four Corners Tavern
Mason, Wisconsin

	Date ->		mg/l	1/11/2011	4/27/2011	Sept. 2011	9/23/2011	2/7/2012	5/8/2012	3/4/2013	10/15/2014	6/17/2015	10/5/2016	1/26/2017
	15	0.5												
Dissolved Lead	15	0.5	< 1.7	< 0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOC Parameters														
Benzene	5	0.5	< 0.20	< 0.20	< 0.41	Soil	< 0.39	< 0.39	< 0.39	< 0.39	< 0.50	< 0.40	< 0.40	< 0.40
Toluene	1,000	200	< 0.40	< 0.40	< 0.67	Excavation	< 0.42	< 0.42	< 0.42	< 0.42	< 0.50	< 0.39	< 0.39	< 0.39
Ethylbenzene	700	140	< 0.20	< 0.20	< 0.54		< 0.41	< 0.41	< 0.41	< 0.41	< 0.50	< 0.39	< 0.39	< 0.39
Xylenes (mixed isomers)	10,000	1,000	< 0.40	< 0.40	< 1.8		< 0.87	< 0.87	< 0.87	< 0.87	< 1.0	< 1.25	< 0.80	< 0.80
Methyl tert-Butyl Ether (MTBE)	60	12	< 0.50	< 0.50	< 0.61		< 0.38	< 0.38	< 0.38	< 0.38	< 0.17	< 0.48	< 0.48	< 0.48
Trimethylbenzenes (mixed isomers)	480	96	< 0.20	< 0.20	< 0.97		< 0.43	< 0.43	< 0.43	< 0.43	< 0.50	< 0.84	< 0.42	< 0.42
Naphthalene	100	10	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	< 2.5	< 0.42	< 0.42	< 0.42
1,2-Dichloroethane	5	0.5	< 0.30	< 0.30	NA	NA	< 0.36	< 0.40	< 0.40	< 0.40	< 0.17	NA	NA	NA

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Table 2f
Summary of Groundwater Analytical Results
MW6
Four Corners Tavern
Mason, Wisconsin

	Date ->	Date													
		8/9/2010	1/11/2011	4/27/2011	Sept. 2011	9/23/2011	2/7/2012	5/8/2012	3/4/2013	10/15/2014	6/17/2015	10/5/2016	1/26/2017		
Dissolved Lead	15	< 0.60	< 0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOC Parameters															
Benzene	5	< 0.20	< 0.20	< 0.41	Soil	< 0.39	< 0.41	< 0.39	< 0.39	< 0.50	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Toluene	200	< 0.40	< 0.40	< 0.67	Excavation	< 0.42	< 0.67	< 0.42	< 0.42	< 0.50	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Ethylbenzene	700	< 0.20	< 0.20	< 0.54		< 0.41	< 0.54	< 0.41	< 0.41	< 0.50	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Xylenes (mixed isomers)	1,000	< 0.40	< 0.40	< 1.8		< 0.87	< 1.8	< 0.87	< 0.87	< 1.0	< 1.25	< 0.80	< 0.80	< 0.80	< 0.80
Methyl tert-Butyl Ether (MTBE)	60	< 0.50	< 0.50	< 0.61		< 0.38	< 0.61	< 0.38	< 0.38	< 0.17	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Trimethylbenzenes (mixed isomers)	480	< 0.20	< 0.20	< 0.97		< 0.43	< 0.97	< 0.43	< 0.43	< 0.50	< 0.84	< 0.42	< 0.42	< 0.42	< 0.42
Naphthalene	100	< 1.0	< 1.0	NA		NA	NA	NA	NA	< 2.5	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
1,2-Dichloroethane	5	< 0.30	< 0.30	NA		NA	< 0.36	< 0.40	< 0.40	< 0.17	NA	NA	NA	NA	NA

Notes:

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PAI = NR140.10 Preventive Action Limits

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Table 2g
Summary of Groundwater Analytical Results
Potable Well
Four Corners Tavern
Mason, Wisconsin

VOC Parameters	Date ->	Old Potable Well				New Potable Well						
		2/9/2011	4/27/2011	Sept 2011	10/24/2011	2/7/2012	5/8/2012	3/4/2013	10/15/2014	6/17/2015	8/31/2016	1/26/2017
Benzene	0.5	< 0.20	< 0.038	Soil	< 0.39	NS	< 0.41	< 0.41	< 0.073	< 0.21	< 0.086	< 0.086
Toluene	1,000	< 0.40	< 0.045	Excavation	< 0.40	NS	< 0.67	< 0.67	< 0.11	< 0.12	< 0.080	< 0.080
Ethylbenzene	700	< 0.20	< 0.034		< 0.41	NS	< 0.54	< 0.54	< 0.096	< 0.23	< 0.051	< 0.051
Xylenes (mixed isomers)	10,000	< 1.00	< 0.12		< 0.87	NS	< 1.8	< 1.8	< 0.21	< 0.41	< 0.073	< 0.073
Methyl tert-Butyl Ether (MTBE)	60	< 0.50	< 0.040		< 0.38	NS	< 0.61	< 0.61	< 0.12	NA	< 0.058	< 0.058
Trimethylbenzenes (mixed isomers)	480	< 0.20	< 0.050		< 0.43	NS	< 0.97	< 0.97	< 0.25	NA	< 0.083	< 0.083
Naphthalene	100	< 1.00	< 0.058		< 0.40	NS	< 0.89	< 0.89	< 0.50	NA	< 0.064	< 0.064
1,2-Dichloroethane	5	< 0.30	< 0.044		NA	NS	< 0.36	< 0.36	< 0.10	< 0.17	< 0.092	< 0.092

Notes:

ES = NR140.10 Enforcement Standards

PAI = NR140.10 Preventive Action Limits

BOLD
<i>Italics</i>

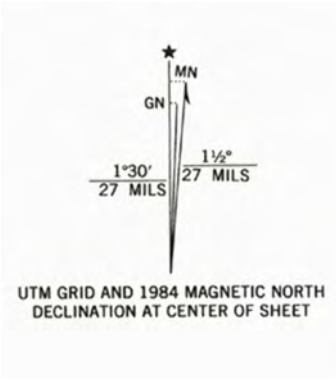
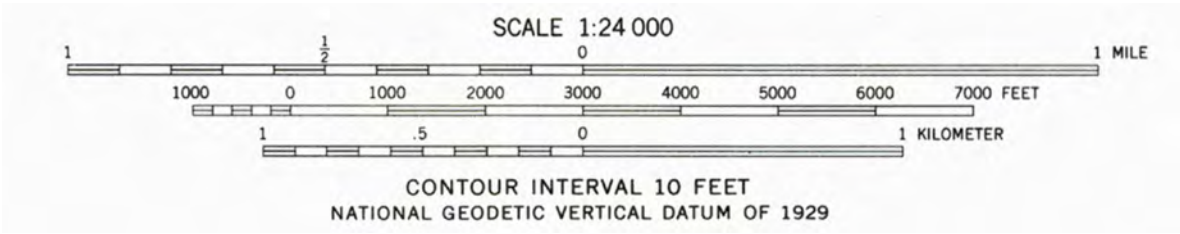
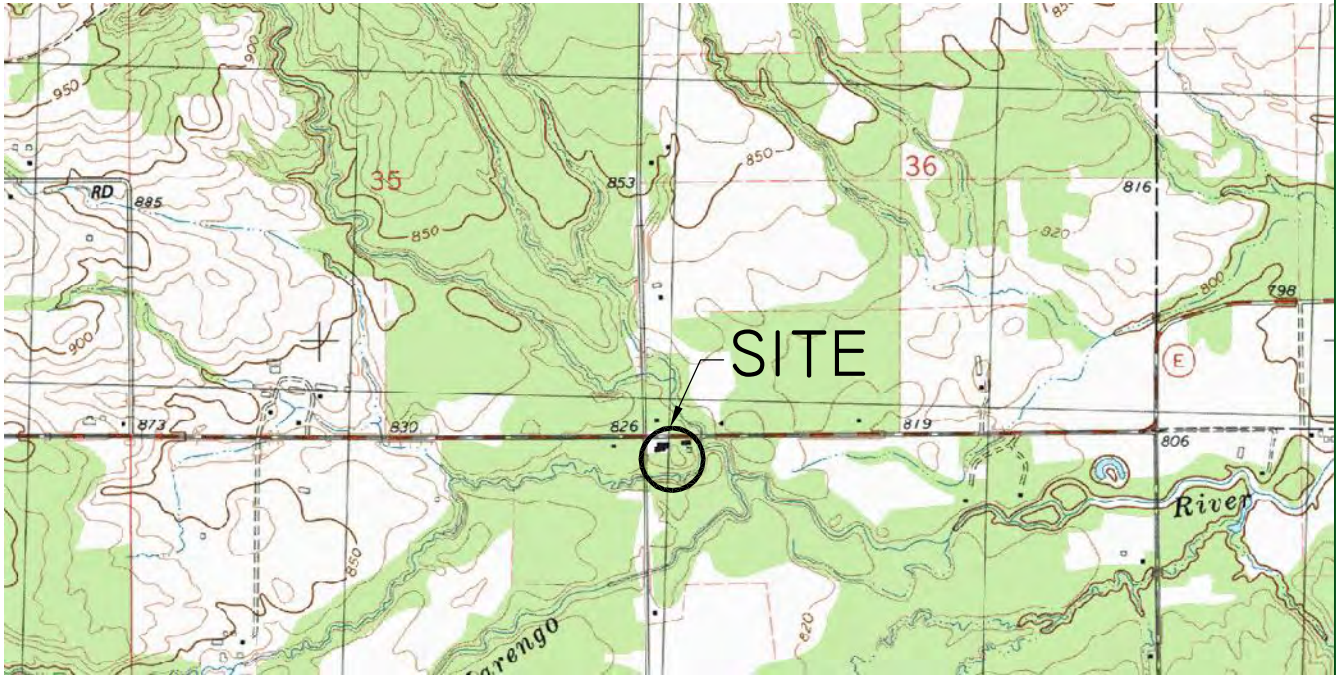
Enforcement Standard exceeded

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation



SANBORN, WIS.
NW/4 MARENGO 15' QUADRANGLE
46090-D8-TF-024
1984
DMA 2876 IV NW-SERIES V861



DRAWING FILE: J:\DRAFTING\5377-VICINITY.DWG LAYOUT: ENV_VERT-8.5x11 PLOTTED: JUN 29, 2011 - 4:06PM PLOTTED BY: NATHAN

REI Engineering, INC.

<p>FOUR CORNERS TAVERN 30015 COUNTY HIGHWAY E MASON, WI</p>		<p>FIGURE 1 : SITE VICINITY MAP</p>	
PROJECT NO.	5377	DRAWN BY:	DATE:
		NAP	06/22/10

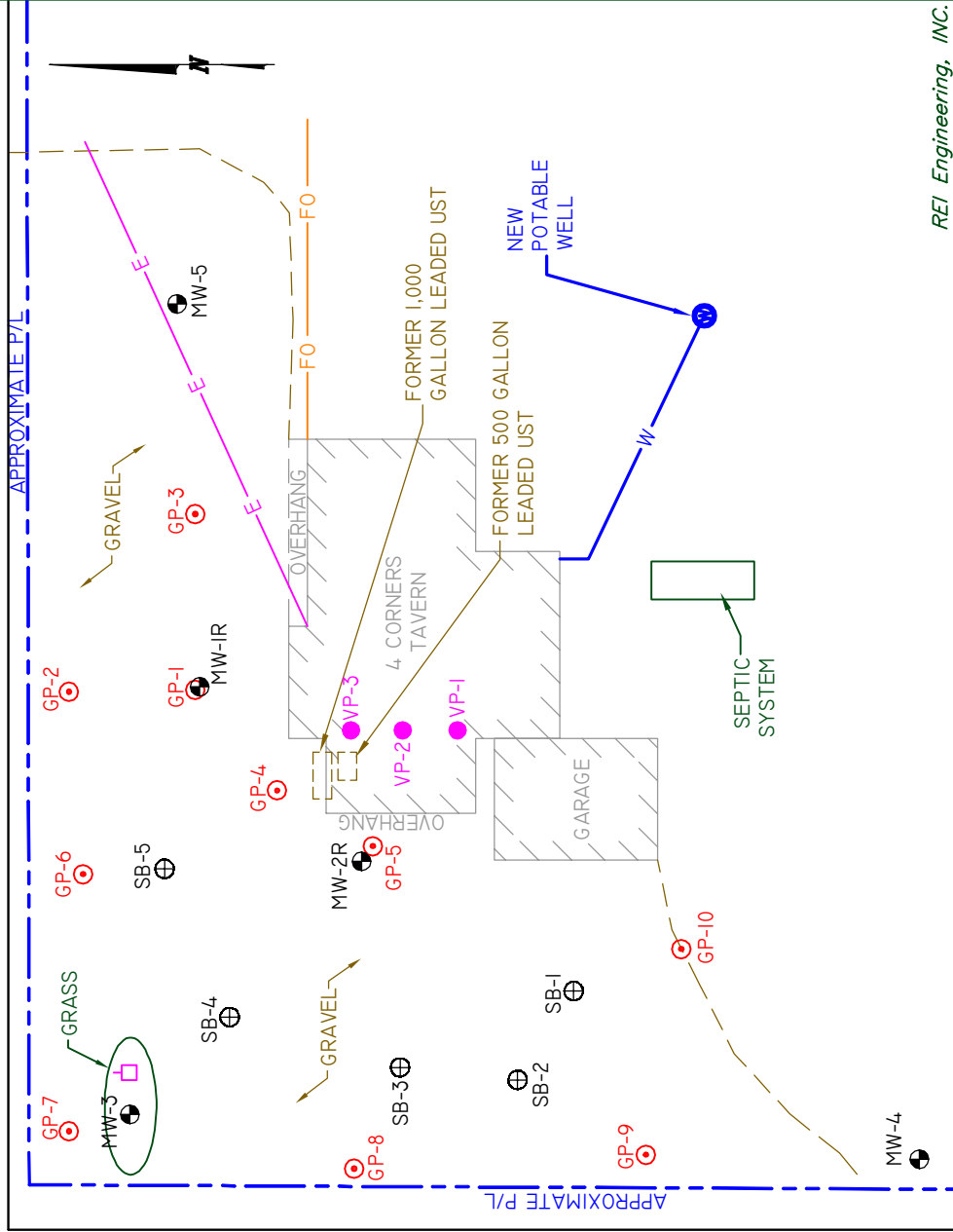


CTH "E"

LEGEND

0 40
SCALE: 1" = 40'

- CONFIRMATORY SOIL SAMPLE
- POWER POLE
- FIBER OPTIC LINE
- UNDERGROUND ELECTRICAL LINE
- WATER LINE
- TELEPHONE LINE
- SOIL BORING
- MONITORING WELL
- GEOPROBE SOIL BORING
- VAPOR PROBE



FOUR CORNERS STORE ROAD

REI Engineering, INC.

FIGURE 2 : SITE MAP

FOUR CORNERS TAVERN
30015 COUNTY HIGHWAY E
MASON, WISCONSIN

PROJECT NO. 5377

DRAWN BY: TAW

DATE: 7/20/2015

APPENDIX A

INVESTIGATIVE WASTE DISPOSAL DOCUMENTATION



Date: 8-8-07

SPECIAL DISCHARGE FORM
GROUNDWATER CLEANUP PROJECTS

This form is intended to document the discharge of contaminated groundwater or process waters into the Wausau Wastewater Treatment Facility. Sewerage Utility billing for this discharge will be directly to the party listed below.

Source of Water: Monitoring Well purge water
Up to 500 gallons, no free product, no
strong or volatile odors

Party Responsible for Utility Charges:

Dave Larsen
REI Engineering Inc.
4080 N 20th Ave
Wausau WI 54401

Approved By: 

Wausau Sewerage Utility

TO BE COMPLETED BY WASTE HAULER

Name of Waste Hauler:

REI Engineering, Inc.

Disposal Date: 2/6/17

Approximate quantity of water discharged: 130 gallons

Date of Discharge: 2/6/17

Time of Discharge: _____

By submitting this form, the hauler will not be billed for this load. Special Discharge Request has been completed to obtain authorization for this discharge but please notify treatment plant operator if water contains oil, grease, solids, or sediments, has a strong odor or otherwise appears unsuitable for discharge into the treatment plant.

THIS FORM TO BE SUBMITTED TO SEWERAGE UTILITY BY WASTE HAULER AT TIME OF DISCHARGE

SPECIAL DISCHARGE FORM
GROUNDWATER CLEANUP PROJECTS

This form is intended to document the discharge of contaminated groundwater or process waters into the Wausau Wastewater Treatment Facility. Sewerage Utility billing for this discharge will be directly to the party listed below.

Source of Water: Monitoring Well purge water
Up to 500 gallons, no free product, no
strong or volatile odors

Party Responsible for Utility Charges:
Dave Larsen
REI Engineering Inc.
4080 N 20th Ave
Wausau WI 54401

Approved By: [Signature]
Wausau Sewerage Utility

TO BE COMPLETED BY WASTE HAULER

Name of Waste Hauler: REI Engineering, Inc.
Disposal Date: 10-6-16

Approximate quantity of water discharged: 575 Gallons

Date of Discharge: 10-6-16

Time of Discharge: _____

By submitting this form, the hauler will not be billed for this load. Special Discharge Request has been completed to obtain authorization for this discharge but please notify treatment plant operator if water contains oil, grease, solids, or sediments, has a strong odor or otherwise appears unsuitable for discharge into the treatment plant.

THIS FORM TO BE SUBMITTED TO SEWERAGE UTILITY BY WASTE HAULER AT TIME OF DISCHARGE

APPENDIX B

GROUNDWATER LABORATORY REPORTS



September 13, 2016

DAVID LARSEN
REI
4080 NORTH 20TH AVENUE
Wausau, WI 54401

RE: Project: 5377 AXUC FOUR CORNERS
Pace Project No.: 40137763

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on September 03, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5377 AXUC FOUR CORNERS
Pace Project No.: 40137763

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40137763001	POTABLE	Water	08/31/16 09:30	09/03/16 07:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40137763001	POTABLE	EPA 524.2	DJB	75	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

Sample: POTABLE **Lab ID: 40137763001** Collected: 08/31/16 09:30 Received: 09/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
Acetone	<1.9	ug/L	20.0	1.9	1		09/09/16 19:01	67-64-1	
Acrylonitrile	<0.28	ug/L	10.0	0.28	1		09/09/16 19:01	107-13-1	
Benzene	<0.086	ug/L	0.50	0.086	1		09/09/16 19:01	71-43-2	
Bromobenzene	<0.081	ug/L	0.50	0.081	1		09/09/16 19:01	108-86-1	
Bromochloromethane	<0.16	ug/L	1.0	0.16	1		09/09/16 19:01	74-97-5	
Bromodichloromethane	<0.090	ug/L	1.0	0.090	1		09/09/16 19:01	75-27-4	
Bromoform	<0.23	ug/L	4.0	0.23	1		09/09/16 19:01	75-25-2	
Bromomethane	<0.20	ug/L	4.0	0.20	1		09/09/16 19:01	74-83-9	
2-Butanone (MEK)	<0.19	ug/L	5.0	0.19	1		09/09/16 19:01	78-93-3	
n-Butylbenzene	<0.081	ug/L	0.50	0.081	1		09/09/16 19:01	104-51-8	
sec-Butylbenzene	<0.063	ug/L	0.50	0.063	1		09/09/16 19:01	135-98-8	
tert-Butylbenzene	<0.097	ug/L	0.50	0.097	1		09/09/16 19:01	98-06-6	
Carbon disulfide	<0.042	ug/L	1.0	0.042	1		09/09/16 19:01	75-15-0	
Carbon tetrachloride	<0.076	ug/L	1.0	0.076	1		09/09/16 19:01	56-23-5	
Chlorobenzene	<0.068	ug/L	0.50	0.068	1		09/09/16 19:01	108-90-7	
Chloroethane	<0.18	ug/L	1.0	0.18	1		09/09/16 19:01	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		09/09/16 19:01	67-66-3	
Chloromethane	<0.21	ug/L	4.0	0.21	1		09/09/16 19:01	74-87-3	
2-Chlorotoluene	<0.11	ug/L	0.50	0.11	1		09/09/16 19:01	95-49-8	
4-Chlorotoluene	<0.10	ug/L	0.50	0.10	1		09/09/16 19:01	106-43-4	
1,2-Dibromo-3-chloropropane	<0.18	ug/L	4.0	0.18	1		09/09/16 19:01	96-12-8	
Dibromochloromethane	<0.13	ug/L	0.50	0.13	1		09/09/16 19:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.091	ug/L	0.50	0.091	1		09/09/16 19:01	106-93-4	
Dibromomethane	<0.098	ug/L	1.0	0.098	1		09/09/16 19:01	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	0.50	0.10	1		09/09/16 19:01	95-50-1	
1,3-Dichlorobenzene	<0.082	ug/L	0.50	0.082	1		09/09/16 19:01	541-73-1	
1,4-Dichlorobenzene	<0.075	ug/L	0.50	0.075	1		09/09/16 19:01	106-46-7	
trans-1,4-Dichloro-2-butene	<0.15	ug/L	10.0	0.15	1		09/09/16 19:01	110-57-6	CL,L2
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		09/09/16 19:01	75-71-8	
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/09/16 19:01	75-34-3	
1,2-Dichloroethane	<0.092	ug/L	0.50	0.092	1		09/09/16 19:01	107-06-2	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/09/16 19:01	75-35-4	
cis-1,2-Dichloroethene	<0.085	ug/L	0.50	0.085	1		09/09/16 19:01	156-59-2	
trans-1,2-Dichloroethene	<0.11	ug/L	0.50	0.11	1		09/09/16 19:01	156-60-5	
1,2-Dichloropropane	<0.084	ug/L	4.0	0.084	1		09/09/16 19:01	78-87-5	
1,3-Dichloropropane	<0.094	ug/L	0.50	0.094	1		09/09/16 19:01	142-28-9	
2,2-Dichloropropane	<0.097	ug/L	1.0	0.097	1		09/09/16 19:01	594-20-7	
1,1-Dichloropropene	<0.080	ug/L	0.50	0.080	1		09/09/16 19:01	563-58-6	
cis-1,3-Dichloropropene	<0.071	ug/L	0.50	0.071	1		09/09/16 19:01	10061-01-5	
trans-1,3-Dichloropropene	<0.055	ug/L	0.50	0.055	1		09/09/16 19:01	10061-02-6	
Ethylbenzene	<0.051	ug/L	0.50	0.051	1		09/09/16 19:01	100-41-4	
Ethyl methacrylate	<0.071	ug/L	5.0	0.071	1		09/09/16 19:01	97-63-2	
Hexachloro-1,3-butadiene	<0.11	ug/L	4.0	0.11	1		09/09/16 19:01	87-68-3	
2-Hexanone	<0.19	ug/L	5.0	0.19	1		09/09/16 19:01	591-78-6	
Isopropylbenzene (Cumene)	<0.11	ug/L	0.50	0.11	1		09/09/16 19:01	98-82-8	
p-Isopropyltoluene	<0.083	ug/L	0.50	0.083	1		09/09/16 19:01	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5377 AXUC FOUR CORNERS
Pace Project No.: 40137763

Sample: POTABLE **Lab ID: 40137763001** Collected: 08/31/16 09:30 Received: 09/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
Methylene Chloride	<0.20	ug/L	4.0	0.20	1		09/09/16 19:01	75-09-2	
Methyl methacrylate	<0.12	ug/L	5.0	0.12	1		09/09/16 19:01	80-62-6	
4-Methyl-2-pentanone (MIBK)	<0.34	ug/L	5.0	0.34	1		09/09/16 19:01	108-10-1	
Methyl-tert-butyl ether	<0.058	ug/L	0.50	0.058	1		09/09/16 19:01	1634-04-4	
Naphthalene	<0.064	ug/L	4.0	0.064	1		09/09/16 19:01	91-20-3	
2-Nitropropane	<0.42	ug/L	10.0	0.42	1		09/09/16 19:01	79-46-9	
n-Propylbenzene	<0.096	ug/L	0.50	0.096	1		09/09/16 19:01	103-65-1	
Styrene	<0.075	ug/L	1.0	0.075	1		09/09/16 19:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.062	ug/L	0.50	0.062	1		09/09/16 19:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.11	ug/L	0.50	0.11	1		09/09/16 19:01	79-34-5	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/09/16 19:01	127-18-4	
Toluene	<0.080	ug/L	0.50	0.080	1		09/09/16 19:01	108-88-3	
Total Trihalomethanes (Calc.)	<2.0	ug/L	4.0	2.0	1		09/09/16 19:01		
1,2,3-Trichlorobenzene	<0.10	ug/L	0.50	0.10	1		09/09/16 19:01	87-61-6	
1,2,4-Trichlorobenzene	<0.12	ug/L	0.50	0.12	1		09/09/16 19:01	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/09/16 19:01	71-55-6	
1,1,2-Trichloroethane	<0.098	ug/L	0.50	0.098	1		09/09/16 19:01	79-00-5	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		09/09/16 19:01	79-01-6	
Trichlorofluoromethane	<0.13	ug/L	0.50	0.13	1		09/09/16 19:01	75-69-4	
1,2,3-Trichloropropane	<0.073	ug/L	4.0	0.073	1		09/09/16 19:01	96-18-4	
1,2,4-Trimethylbenzene	<0.083	ug/L	0.50	0.083	1		09/09/16 19:01	95-63-6	
1,3,5-Trimethylbenzene	<0.078	ug/L	0.50	0.078	1		09/09/16 19:01	108-67-8	
Vinyl chloride	<0.098	ug/L	0.20	0.098	1		09/09/16 19:01	75-01-4	
Xylene (Total)	<0.073	ug/L	1.5	0.073	1		09/09/16 19:01	1330-20-7	
m&p-Xylene	<0.073	ug/L	1.0	0.073	1		09/09/16 19:01	179601-23-1	
o-Xylene	<0.073	ug/L	0.50	0.073	1		09/09/16 19:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	75-125		1		09/09/16 19:01	460-00-4	
Toluene-d8 (S)	94	%	75-125		1		09/09/16 19:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	93	%	75-125		1		09/09/16 19:01	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS
Pace Project No.: 40137763

QC Batch: 434844 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40137763001

METHOD BLANK: 2363671 Matrix: Water
Associated Lab Samples: 40137763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.062	0.50	09/09/16 16:25	
1,1,1-Trichloroethane	ug/L	<0.10	0.50	09/09/16 16:25	
1,1,2,2-Tetrachloroethane	ug/L	<0.11	0.50	09/09/16 16:25	
1,1,2-Trichloroethane	ug/L	<0.098	0.50	09/09/16 16:25	
1,1-Dichloroethane	ug/L	<0.088	0.50	09/09/16 16:25	
1,1-Dichloroethene	ug/L	<0.089	0.50	09/09/16 16:25	
1,1-Dichloropropene	ug/L	<0.080	0.50	09/09/16 16:25	
1,2,3-Trichlorobenzene	ug/L	<0.10	0.50	09/09/16 16:25	
1,2,3-Trichloropropane	ug/L	<0.073	4.0	09/09/16 16:25	
1,2,4-Trichlorobenzene	ug/L	<0.12	0.50	09/09/16 16:25	
1,2,4-Trimethylbenzene	ug/L	<0.083	0.50	09/09/16 16:25	
1,2-Dibromo-3-chloropropane	ug/L	<0.18	4.0	09/09/16 16:25	
1,2-Dibromoethane (EDB)	ug/L	<0.091	0.50	09/09/16 16:25	
1,2-Dichlorobenzene	ug/L	<0.10	0.50	09/09/16 16:25	
1,2-Dichloroethane	ug/L	<0.092	0.50	09/09/16 16:25	
1,2-Dichloropropane	ug/L	<0.084	4.0	09/09/16 16:25	
1,3,5-Trimethylbenzene	ug/L	<0.078	0.50	09/09/16 16:25	
1,3-Dichlorobenzene	ug/L	<0.082	0.50	09/09/16 16:25	
1,3-Dichloropropane	ug/L	<0.094	0.50	09/09/16 16:25	
1,4-Dichlorobenzene	ug/L	<0.075	0.50	09/09/16 16:25	
2,2-Dichloropropane	ug/L	<0.097	1.0	09/09/16 16:25	
2-Butanone (MEK)	ug/L	<0.19	5.0	09/09/16 16:25	
2-Chlorotoluene	ug/L	<0.11	0.50	09/09/16 16:25	
2-Hexanone	ug/L	<0.19	5.0	09/09/16 16:25	
2-Nitropropane	ug/L	<0.42	10.0	09/09/16 16:25	
4-Chlorotoluene	ug/L	<0.10	0.50	09/09/16 16:25	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.34	5.0	09/09/16 16:25	
Acetone	ug/L	<1.9	20.0	09/09/16 16:25	
Acrylonitrile	ug/L	<0.28	10.0	09/09/16 16:25	
Benzene	ug/L	<0.086	0.50	09/09/16 16:25	
Bromobenzene	ug/L	<0.081	0.50	09/09/16 16:25	
Bromochloromethane	ug/L	<0.16	1.0	09/09/16 16:25	
Bromodichloromethane	ug/L	<0.090	1.0	09/09/16 16:25	
Bromoform	ug/L	<0.23	4.0	09/09/16 16:25	
Bromomethane	ug/L	<0.20	4.0	09/09/16 16:25	
Carbon disulfide	ug/L	<0.042	1.0	09/09/16 16:25	
Carbon tetrachloride	ug/L	<0.076	1.0	09/09/16 16:25	
Chlorobenzene	ug/L	<0.068	0.50	09/09/16 16:25	
Chloroethane	ug/L	<0.18	1.0	09/09/16 16:25	
Chloroform	ug/L	<0.10	1.0	09/09/16 16:25	
Chloromethane	ug/L	<0.21	4.0	09/09/16 16:25	

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: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

METHOD BLANK: 2363671

Matrix: Water

Associated Lab Samples: 40137763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.085	0.50	09/09/16 16:25	
cis-1,3-Dichloropropene	ug/L	<0.071	0.50	09/09/16 16:25	
Dibromochloromethane	ug/L	<0.13	0.50	09/09/16 16:25	
Dibromomethane	ug/L	<0.098	1.0	09/09/16 16:25	
Dichlorodifluoromethane	ug/L	<0.16	1.0	09/09/16 16:25	
Ethyl methacrylate	ug/L	<0.071	5.0	09/09/16 16:25	
Ethylbenzene	ug/L	<0.051	0.50	09/09/16 16:25	
Hexachloro-1,3-butadiene	ug/L	<0.11	4.0	09/09/16 16:25	
Isopropylbenzene (Cumene)	ug/L	<0.11	0.50	09/09/16 16:25	
m&p-Xylene	ug/L	<0.073	1.0	09/09/16 16:25	
Methyl methacrylate	ug/L	<0.12	5.0	09/09/16 16:25	
Methyl-tert-butyl ether	ug/L	<0.058	0.50	09/09/16 16:25	
Methylene Chloride	ug/L	<0.20	4.0	09/09/16 16:25	
n-Butylbenzene	ug/L	<0.081	0.50	09/09/16 16:25	
n-Propylbenzene	ug/L	<0.096	0.50	09/09/16 16:25	
Naphthalene	ug/L	<0.064	4.0	09/09/16 16:25	
o-Xylene	ug/L	<0.073	0.50	09/09/16 16:25	
p-Isopropyltoluene	ug/L	<0.083	0.50	09/09/16 16:25	
sec-Butylbenzene	ug/L	<0.063	0.50	09/09/16 16:25	
Styrene	ug/L	<0.075	1.0	09/09/16 16:25	
tert-Butylbenzene	ug/L	<0.097	0.50	09/09/16 16:25	
Tetrachloroethene	ug/L	<0.12	0.50	09/09/16 16:25	
Toluene	ug/L	<0.080	0.50	09/09/16 16:25	
Total Trihalomethanes (Calc.)	ug/L	<2.0	4.0	09/09/16 16:25	
trans-1,2-Dichloroethene	ug/L	<0.11	0.50	09/09/16 16:25	
trans-1,3-Dichloropropene	ug/L	<0.055	0.50	09/09/16 16:25	
trans-1,4-Dichloro-2-butene	ug/L	<0.15	10.0	09/09/16 16:25	CL
Trichloroethene	ug/L	<0.044	0.40	09/09/16 16:25	
Trichlorofluoromethane	ug/L	<0.13	0.50	09/09/16 16:25	
Vinyl chloride	ug/L	<0.098	0.20	09/09/16 16:25	
Xylene (Total)	ug/L	<0.073	1.5	09/09/16 16:25	
1,2-Dichloroethane-d4 (S)	%	91	75-125	09/09/16 16:25	
4-Bromofluorobenzene (S)	%	98	75-125	09/09/16 16:25	
Toluene-d8 (S)	%	93	75-125	09/09/16 16:25	

LABORATORY CONTROL SAMPLE & LCSD: 2363672

2363673

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.8	20.6	104	103	70-130	1	20	
1,1,1-Trichloroethane	ug/L	20	22.8	22.3	114	111	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	21.0	106	105	70-130	1	20	
1,1,2-Trichloroethane	ug/L	20	22.2	21.7	111	108	70-130	2	20	
1,1-Dichloroethane	ug/L	20	19.9	19.8	100	99	70-130	1	20	
1,1-Dichloroethene	ug/L	20	21.1	20.6	105	103	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

LABORATORY CONTROL SAMPLE & LCSD: 2363672		2363673								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1-Dichloropropene	ug/L	20	22.3	22.0	112	110	70-130	1	20	
1,2,3-Trichlorobenzene	ug/L	20	18.5	18.4	93	92	70-130	1	20	
1,2,3-Trichloropropane	ug/L	20	21.1	20.9	105	105	70-130	1	20	
1,2,4-Trichlorobenzene	ug/L	20	18.7	19.2	93	96	70-130	3	20	
1,2,4-Trimethylbenzene	ug/L	20	21.0	21.1	105	105	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	50	48.5	47.9	97	96	70-130	1	20	
1,2-Dibromoethane (EDB)	ug/L	20	20.7	20.9	103	105	70-130	1	20	
1,2-Dichlorobenzene	ug/L	20	19.9	20.0	100	100	70-130	0	20	
1,2-Dichloroethane	ug/L	20	20.9	20.8	105	104	70-130	1	20	
1,2-Dichloropropane	ug/L	20	23.6	23.7	118	119	70-130	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.7	20.6	103	103	70-130	0	20	
1,3-Dichlorobenzene	ug/L	20	19.3	20.0	97	100	70-130	3	20	
1,3-Dichloropropane	ug/L	20	22.5	22.1	112	110	70-130	2	20	
1,4-Dichlorobenzene	ug/L	20	19.4	19.9	97	100	70-130	3	20	
2,2-Dichloropropane	ug/L	20	24.2	23.8	121	119	70-130	1	20	
2-Butanone (MEK)	ug/L	100	102	100	102	100	70-130	2	20	
2-Chlorotoluene	ug/L	20	20.3	20.6	102	103	70-130	1	20	
2-Hexanone	ug/L	100	108	104	108	104	70-130	4	20	
2-Nitropropane	ug/L	100	99.8	97.6	100	98	70-130	2	20	
4-Chlorotoluene	ug/L	20	20.3	20.8	102	104	70-130	2	20	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	103	108	103	70-130	4	20	
Acetone	ug/L	100	112	110	112	110	70-130	1	20	
Acrylonitrile	ug/L	200	203	195	102	98	70-130	4	20	
Benzene	ug/L	20	23.2	22.6	116	113	70-130	3	20	
Bromobenzene	ug/L	20	20.5	20.7	102	103	70-130	1	20	
Bromochloromethane	ug/L	20	23.6	24.0	118	120	70-130	2	20	
Bromodichloromethane	ug/L	20	22.7	22.7	114	113	70-130	0	20	
Bromoform	ug/L	20	20.1	20.5	100	102	70-130	2	20	
Bromomethane	ug/L	20	16.5	17.1	82	85	70-130	4	20	
Carbon disulfide	ug/L	20	22.3	21.9	112	110	70-130	2	20	
Carbon tetrachloride	ug/L	20	23.7	23.0	119	115	70-130	3	20	
Chlorobenzene	ug/L	20	21.8	21.4	109	107	70-130	2	20	
Chloroethane	ug/L	20	21.7	21.5	109	108	70-130	1	20	
Chloroform	ug/L	20	22.8	22.4	114	112	70-130	1	20	
Chloromethane	ug/L	20	17.9	17.9	89	89	70-130	0	20	
cis-1,2-Dichloroethene	ug/L	20	23.0	23.0	115	115	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	20	23.3	22.6	117	113	70-130	3	20	
Dibromochloromethane	ug/L	20	21.6	21.1	108	105	70-130	3	20	
Dibromomethane	ug/L	20	24.4	24.6	122	123	70-130	1	20	
Dichlorodifluoromethane	ug/L	20	20.3	19.8	102	99	70-130	3	20	
Ethyl methacrylate	ug/L	20	20.2	20.0	101	100	70-130	1	20	
Ethylbenzene	ug/L	20	21.8	21.3	109	107	70-130	2	20	
Hexachloro-1,3-butadiene	ug/L	20	19.6	20.0	98	100	70-130	2	20	
Isopropylbenzene (Cumene)	ug/L	20	20.0	20.1	100	101	70-130	1	20	
m&p-Xylene	ug/L	40	45.5	44.8	114	112	70-130	1	20	
Methyl methacrylate	ug/L	20	23.3	23.2	116	116	70-130	0	20	
Methyl-tert-butyl ether	ug/L	20	20.6	20.5	103	102	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

LABORATORY CONTROL SAMPLE & LCSD:		2363672		2363673							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Methylene Chloride	ug/L	20	20.1	20.3	101	101	70-130	1	20		
n-Butylbenzene	ug/L	20	20.5	20.5	102	102	70-130	0	20		
n-Propylbenzene	ug/L	20	19.7	19.9	98	99	70-130	1	20		
Naphthalene	ug/L	20	17.4	17.8	87	89	70-130	2	20		
o-Xylene	ug/L	20	22.5	22.3	112	112	70-130	1	20		
p-Isopropyltoluene	ug/L	20	21.8	21.6	109	108	70-130	1	20		
sec-Butylbenzene	ug/L	20	21.4	21.9	107	109	70-130	2	20		
Styrene	ug/L	20	20.6	20.8	103	104	70-130	1	20		
tert-Butylbenzene	ug/L	20	20.6	21.3	103	106	70-130	3	20		
Tetrachloroethene	ug/L	20	22.3	21.8	111	109	70-130	2	20		
Toluene	ug/L	20	21.9	21.2	109	106	70-130	3	20		
Total Trihalomethanes (Calc.)	ug/L	80	87.1	86.6	109	108	70-130	1	20		
trans-1,2-Dichloroethene	ug/L	20	21.3	21.1	107	106	70-130	1	20		
trans-1,3-Dichloropropene	ug/L	20	21.2	21.4	106	107	70-130	1	20		
trans-1,4-Dichloro-2-butene	ug/L	50	26.2	26.3	52	53	70-130	0	20	CL,L0	
Trichloroethene	ug/L	20	23.9	22.7	119	113	70-130	5	20		
Trichlorofluoromethane	ug/L	20	21.1	20.8	105	104	70-130	1	20		
Vinyl chloride	ug/L	20	21.2	20.5	106	102	70-130	4	20		
Xylene (Total)	ug/L	60	68.0	67.2	113	112	70-130	1	20		
1,2-Dichloroethane-d4 (S)	%				85	85	75-125				
4-Bromofluorobenzene (S)	%				95	94	75-125				
Toluene-d8 (S)	%				96	94	75-125				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2363674		2363675								
Parameter	Units	10361381001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.2	19.4	106	97	70-130	9	20	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.3	21.4	122	107	70-130	13	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.2	19.3	106	96	70-130	10	20	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.5	19.9	113	100	70-130	12	20	
1,1-Dichloroethane	ug/L	ND	20	20	21.2	18.7	106	93	70-130	13	20	
1,1-Dichloroethene	ug/L	ND	20	20	23.3	20.7	116	103	70-130	12	20	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	21.6	122	108	70-130	12	20	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.1	17.9	100	89	70-130	12	20	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	19.2	107	96	70-130	11	20	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.6	17.9	103	90	70-130	14	20	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.0	19.7	110	98	70-130	11	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	48.1	43.7	96	87	70-130	10	20	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.6	18.9	108	95	70-130	13	20	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.5	18.9	102	95	70-130	8	20	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	19.0	104	95	70-130	9	20	
1,2-Dichloropropane	ug/L	ND	20	20	24.9	22.4	124	112	70-130	10	20	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.1	19.5	106	97	70-130	8	20	

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

Parameter	Units	2363674		2363675		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10361381001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	18.4	101	92	70-130	9	20		
1,3-Dichloropropane	ug/L	ND	20	20	23.1	20.4	115	102	70-130	12	20		
1,4-Dichlorobenzene	ug/L	ND	20	20	20.2	18.4	101	92	70-130	10	20		
2,2-Dichloropropane	ug/L	ND	20	20	26.6	22.9	133	114	70-130	15	20	M1	
2-Butanone (MEK)	ug/L	ND	100	100	96.6	88.2	97	88	70-130	9	20		
2-Chlorotoluene	ug/L	ND	20	20	20.9	19.5	105	98	70-130	7	20		
2-Hexanone	ug/L	ND	100	100	102	93.5	102	94	70-130	9	20		
2-Nitropropane	ug/L	ND	100	100	98.2	87.9	98	88	70-130	11	20		
4-Chlorotoluene	ug/L	ND	20	20	21.0	19.3	105	97	70-130	8	20		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	104	94.1	104	94	70-130	10	20		
Acetone	ug/L	ND	100	100	120	104	120	104	70-130	14	20		
Acrylonitrile	ug/L	ND	200	200	194	179	97	89	70-130	8	20		
Benzene	ug/L	ND	20	20	24.0	21.3	120	106	70-130	12	20		
Bromobenzene	ug/L	ND	20	20	21.5	19.4	108	97	70-130	10	20		
Bromochloromethane	ug/L	ND	20	20	25.3	22.6	127	113	70-130	11	20		
Bromodichloromethane	ug/L	ND	20	20	23.7	20.9	118	104	70-130	13	20		
Bromoform	ug/L	ND	20	20	20.7	18.5	104	93	70-130	11	20		
Bromomethane	ug/L	ND	20	20	17.7	17.5	89	87	70-130	1	20		
Carbon disulfide	ug/L	ND	20	20	25.2	21.9	126	109	70-130	14	20		
Carbon tetrachloride	ug/L	ND	20	20	26.3	23.5	132	118	70-130	11	20	M1	
Chlorobenzene	ug/L	ND	20	20	22.5	20.3	113	102	70-130	10	20		
Chloroethane	ug/L	ND	20	20	22.0	21.9	110	109	70-130	1	20		
Chloroform	ug/L	ND	20	20	23.4	20.9	117	104	70-130	11	20		
Chloromethane	ug/L	ND	20	20	18.3	17.9	92	89	70-130	3	20		
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.1	21.5	120	107	70-130	11	20		
cis-1,3-Dichloropropene	ug/L	ND	20	20	23.8	21.1	119	105	70-130	12	20		
Dibromochloromethane	ug/L	ND	20	20	22.4	20.0	112	100	70-130	11	20		
Dibromomethane	ug/L	ND	20	20	24.6	21.8	123	109	70-130	12	20		
Dichlorodifluoromethane	ug/L	ND	20	20	25.2	25.0	126	125	70-130	1	20		
Ethyl methacrylate	ug/L	ND	20	20	20.3	18.1	101	91	70-130	11	20		
Ethylbenzene	ug/L	ND	20	20	22.3	20.3	111	101	70-130	9	20		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.2	20.2	116	101	70-130	14	20		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.8	18.9	104	94	70-130	10	20		
m&p-Xylene	ug/L	ND	40	40	46.8	42.8	117	107	70-130	9	20		
Methyl methacrylate	ug/L	ND	20	20	22.6	20.4	113	102	70-130	10	20		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.9	19.0	105	95	70-130	10	20		
Methylene Chloride	ug/L	ND	20	20	21.1	18.8	105	94	70-130	12	20		
n-Butylbenzene	ug/L	ND	20	20	22.2	19.8	111	99	70-130	11	20		
n-Propylbenzene	ug/L	ND	20	20	21.0	18.8	105	94	70-130	11	20		
Naphthalene	ug/L	ND	20	20	18.0	16.5	90	82	70-130	9	20		
o-Xylene	ug/L	ND	20	20	23.3	20.6	117	103	70-130	12	20		
p-Isopropyltoluene	ug/L	ND	20	20	23.3	20.7	116	103	70-130	12	20		
sec-Butylbenzene	ug/L	ND	20	20	23.3	20.7	116	104	70-130	11	20		
Styrene	ug/L	ND	20	20	20.9	18.8	105	94	70-130	11	20		
tert-Butylbenzene	ug/L	ND	20	20	22.2	20.0	111	100	70-130	10	20		

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

Parameter	Units	2363674		2363675		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10361381001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Tetrachloroethene	ug/L	ND	20	20	23.4	21.5	117	107	70-130	9	20		
Toluene	ug/L	ND	20	20	22.7	20.2	114	101	70-130	12	20		
Total Trihalomethanes (Calc.)	ug/L	ND	80	80	90.1	80.3	113	100	70-130	12	20		
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.6	20.3	118	102	70-130	15	20		
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.2	19.5	111	98	70-130	13	20		
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	27.6	24.5	55	49	70-130	12	20	CL,M0	
Trichloroethene	ug/L	ND	20	20	24.5	22.1	123	111	70-130	10	20		
Trichlorofluoromethane	ug/L	ND	20	20	24.1	24.0	120	120	70-130	1	20		
Vinyl chloride	ug/L	ND	20	20	22.2	21.8	111	109	70-130	2	20		
Xylene (Total)	ug/L	ND	60	60	70.1	63.4	117	106	70-130	10	20		
1,2-Dichloroethane-d4 (S)	%.						85	85	75-125				
4-Bromofluorobenzene (S)	%.						98	96	75-125				
Toluene-d8 (S)	%.						92	93	75-125				

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QUALIFIERS

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40137763

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40137763001	POTABLE	EPA 524.2	434844		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

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

FILTERED?
(YES/NO)

PRESERVATION
(CODE)*

Regulatory
Program:

Data Package Options
 EPA Level III
 EPA Level IV
 On your sample (billable)
 NOT needed on your sample

MS/MSD

Matrix Codes
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 WP = Wipe

CLIENT FIELD ID

COLLECTION DATE

TIME

MATRIX

V/I/N

Pick Letter

Analyses Requested

LAB COMMENTS
(Lab Use Only)

Profile #

Quote #:

Mail To Contact:

Mail To Company:

Mail To Address:

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS

3-40mIVB

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)

Date Needed:

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

Email #1:

Email #2:

Telephone:

Fax:

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

Relinquished By:

Date/Time:

9-2-16

Date/Time:

9/3/16 0745

Date/Time:

Relinquished By:

Relinquished By:

Received By:

Date/Time:

9/11/16 0745

Date/Time:

Date/Time:

Received By:

Received By:

PACE Project No.

40137703

Receipt Temp = 80J °C

Sample Receipt pH

OK/Adjusted-

Cooler Custody Seal

Present / Not Present

Intact / Not Intact

Sample Condition Upon Receipt

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

Pace Analytical
Client Name: REI

Project #: **WO#: 40137763**

Courier: Fed Ex URS Client Pace Other: Walter
Tracking #: 114902-1



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 NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RDT /Corr: - Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 9/3/16
Initials: BB

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.		
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:		
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.		
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.		
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.		
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.		
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.		
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.		
-Includes date/time/ID/Analysis Matrix: <u>W</u>				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	<input type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct	
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
exceptions: <u>VOA</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lab Stg #ID of preservative	Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.		
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Pace Trip Blank Lot # (if purchased):				

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

Project Manager Review: [Signature] Date: 9-6-16

October 11, 2016

DAVID LARSEN
REI
4080 NORTH 20TH AVENUE
Wausau, WI 54401

RE: Project: 5377 FOUR CORNERS
Pace Project No.: 40139684

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5377 FOUR CORNERS

Pace Project No.: 40139684

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: 5377 FOUR CORNERS

Pace Project No.: 40139684

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40139684001	MW1R	Water	10/05/16 13:30	10/07/16 09:00
40139684002	MW2R	Water	10/05/16 13:15	10/07/16 09:00
40139684003	MW3	Water	10/05/16 12:46	10/07/16 09:00
40139684004	MW4	Water	10/05/16 13:00	10/07/16 09:00
40139684005	MW5	Water	10/05/16 13:20	10/07/16 09:00
40139684006	MW6	Water	10/05/16 13:15	10/07/16 09:00

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SAMPLE ANALYTE COUNT

Project: 5377 FOUR CORNERS

Pace Project No.: 40139684

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40139684001	MW1R	WI MOD GRO	PMS	10
40139684002	MW2R	WI MOD GRO	PMS	10
40139684003	MW3	WI MOD GRO	PMS	10
40139684004	MW4	WI MOD GRO	PMS	10
40139684005	MW5	WI MOD GRO	PMS	10
40139684006	MW6	WI MOD GRO	PMS	10

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5377 FOUR CORNERS

Pace Project No.: 40139684

Sample: MW1R **Lab ID: 40139684001** Collected: 10/05/16 13:30 Received: 10/07/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	289	ug/L	1.0	0.40	1		10/10/16 19:43	71-43-2	
Ethylbenzene	8.3	ug/L	1.0	0.39	1		10/10/16 19:43	100-41-4	
Methyl-tert-butyl ether	0.94J	ug/L	1.0	0.48	1		10/10/16 19:43	1634-04-4	
Naphthalene	0.43J	ug/L	1.0	0.42	1		10/10/16 19:43	91-20-3	
Toluene	1.3	ug/L	1.0	0.39	1		10/10/16 19:43	108-88-3	
1,2,4-Trimethylbenzene	0.85J	ug/L	1.0	0.42	1		10/10/16 19:43	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 19:43	108-67-8	
m&p-Xylene	1.1J	ug/L	2.0	0.80	1		10/10/16 19:43	179601-23-1	
o-Xylene	0.85J	ug/L	1.0	0.45	1		10/10/16 19:43	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/10/16 19:43	98-08-8	

Sample: MW2R **Lab ID: 40139684002** Collected: 10/05/16 13:15 Received: 10/07/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	21.4	ug/L	1.0	0.40	1		10/10/16 20:09	71-43-2	
Ethylbenzene	6.9	ug/L	1.0	0.39	1		10/10/16 20:09	100-41-4	
Methyl-tert-butyl ether	0.98J	ug/L	1.0	0.48	1		10/10/16 20:09	1634-04-4	
Naphthalene	2.5	ug/L	1.0	0.42	1		10/10/16 20:09	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		10/10/16 20:09	108-88-3	
1,2,4-Trimethylbenzene	7.1	ug/L	1.0	0.42	1		10/10/16 20:09	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 20:09	108-67-8	
m&p-Xylene	2.5	ug/L	2.0	0.80	1		10/10/16 20:09	179601-23-1	
o-Xylene	0.81J	ug/L	1.0	0.45	1		10/10/16 20:09	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		10/10/16 20:09	98-08-8	

Sample: MW3 **Lab ID: 40139684003** Collected: 10/05/16 12:46 Received: 10/07/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		10/10/16 20:35	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		10/10/16 20:35	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		10/10/16 20:35	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		10/10/16 20:35	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		10/10/16 20:35	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 20:35	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 20:35	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		10/10/16 20:35	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		10/10/16 20:35	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5377 FOUR CORNERS

Pace Project No.: 40139684

Sample: MW3									
Lab ID: 40139684003									
Collected: 10/05/16 12:46									
Received: 10/07/16 09:00									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		10/10/16 20:35	98-08-8	

Sample: MW4									
Lab ID: 40139684004									
Collected: 10/05/16 13:00									
Received: 10/07/16 09:00									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		10/10/16 21:00	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		10/10/16 21:00	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		10/10/16 21:00	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		10/10/16 21:00	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		10/10/16 21:00	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 21:00	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 21:00	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		10/10/16 21:00	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		10/10/16 21:00	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		10/10/16 21:00	98-08-8	

Sample: MW5									
Lab ID: 40139684005									
Collected: 10/05/16 13:20									
Received: 10/07/16 09:00									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		10/10/16 21:26	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		10/10/16 21:26	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		10/10/16 21:26	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		10/10/16 21:26	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		10/10/16 21:26	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 21:26	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 21:26	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		10/10/16 21:26	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		10/10/16 21:26	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/10/16 21:26	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5377 FOUR CORNERS

Pace Project No.: 40139684

Sample: MW6 **Lab ID: 40139684006** Collected: 10/05/16 13:15 Received: 10/07/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.40	ug/L	1.0	0.40	1		10/10/16 21:52	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		10/10/16 21:52	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		10/10/16 21:52	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		10/10/16 21:52	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		10/10/16 21:52	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 21:52	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		10/10/16 21:52	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		10/10/16 21:52	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		10/10/16 21:52	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		10/10/16 21:52	98-08-8	

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QUALITY CONTROL DATA

Project: 5377 FOUR CORNERS
Pace Project No.: 40139684

QC Batch: 237546 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40139684001, 40139684002, 40139684003, 40139684004, 40139684005, 40139684006

METHOD BLANK: 1408107 Matrix: Water
Associated Lab Samples: 40139684001, 40139684002, 40139684003, 40139684004, 40139684005, 40139684006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	10/10/16 08:53	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	10/10/16 08:53	
Benzene	ug/L	<0.40	1.0	10/10/16 08:53	
Ethylbenzene	ug/L	<0.39	1.0	10/10/16 08:53	
m&p-Xylene	ug/L	<0.80	2.0	10/10/16 08:53	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	10/10/16 08:53	
Naphthalene	ug/L	<0.42	1.0	10/10/16 08:53	
o-Xylene	ug/L	<0.45	1.0	10/10/16 08:53	
Toluene	ug/L	<0.39	1.0	10/10/16 08:53	
a,a,a-Trifluorotoluene (S)	%	102	80-120	10/10/16 08:53	

LABORATORY CONTROL SAMPLE & LCSD: 1408108 1408109

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.7	22.4	109	112	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	21.4	22.0	107	110	80-120	3	20	
Benzene	ug/L	20	20.8	20.9	104	105	80-120	1	20	
Ethylbenzene	ug/L	20	20.5	21.0	103	105	80-120	2	20	
m&p-Xylene	ug/L	40	41.1	42.1	103	105	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	22.6	21.9	113	110	80-120	3	20	
Naphthalene	ug/L	20	22.5	22.0	112	110	80-120	2	20	
o-Xylene	ug/L	20	20.9	21.3	105	106	80-120	1	20	
Toluene	ug/L	20	20.4	20.7	102	103	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				103	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408422 1408423

Parameter	Units	40139690002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
1,2,4-Trimethylbenzene	ug/L	1090	400	400	1620	1630	133	137	137	48-177	1	20	
1,3,5-Trimethylbenzene	ug/L	308	400	400	784	791	119	121	121	73-145	1	20	
Benzene	ug/L	2770	400	400	3310	3370	137	151	151	74-139	2	20	M1
Ethylbenzene	ug/L	1150	400	400	1640	1680	121	130	130	74-140	2	20	
m&p-Xylene	ug/L	5330	800	800	6450	6600	140	159	159	55-165	2	20	
Methyl-tert-butyl ether	ug/L	<9.7	400	400	449	437	112	109	109	80-120	3	20	
Naphthalene	ug/L	388	400	400	861	871	118	121	121	73-133	1	20	
o-Xylene	ug/L	2480	400	400	3040	3100	140	156	156	73-136	2	20	M1
Toluene	ug/L	1060	400	400	1510	1550	114	122	122	80-128	2	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.

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QUALITY CONTROL DATA

Project: 5377 FOUR CORNERS

Pace Project No.: 40139684

Parameter	Units	40139690002		1408422		1408423		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result	MSD Result							
a,a,a-Trifluorotoluene (S)	%							101	101	80-120				

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

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QUALIFIERS

Project: 5377 FOUR CORNERS

Pace Project No.: 40139684

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5377 FOUR CORNERS

Pace Project No.: 40139684

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40139684001	MW1R	WI MOD GRO	237546		
40139684002	MW2R	WI MOD GRO	237546		
40139684003	MW3	WI MOD GRO	237546		
40139684004	MW4	WI MOD GRO	237546		
40139684005	MW5	WI MOD GRO	237546		
40139684006	MW6	WI MOD GRO	237546		

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CHAIN OF CUSTODY

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

FILTERED?
(YES/NO)

PRESERVATION
(CODE)*

Regulatory
Program:

Matrix Codes
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 WP = Wipe

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

Data Package Options
 EPA Level III
 EPA Level IV

CLIENT FIELD ID

PACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX
001	MW1R	10/5/16	1:30	DW
002	MW2R		1:15	
003	MW3		12:46	
004	MW4		1:00	
005	MW5		1:20	
006	MW6		1:15	

Analyses Requested

Quote #:

Mail To Contact:

Mail To Company:

Mail To Address:

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

3-40m13

PACE Project No.
40139684

Receipt Temp = 201 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Received By: [Signature]

Date/Time: 10-6-16 08:45

Relinquished By: [Signature]

Date/Time: 10-7-16 0900

Received By: [Signature]

Date/Time: 10-7-16 0900

Relinquished By: [Signature]

Date/Time: 10-7-16 0900

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)

Date Needed:

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

Email #1:

Email #2:

Telephone:

Fax:

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

40139684

Client Name: REI

Project #

WO#: **40139684**

Courier: Fed Ex UPS Client Pace Other: Walter
Tracking #: 1177579



40139684

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: NA Type of Ice: Wet Blue Dry None

Cooler Temperature: Uncorr: /Corr: 201 Biological Tissue is Frozen: yes Samples on ice, cooling process has begun

Temp Blank Present: yes no

no

Person examining contents:

Date: 10-7-16

Initials: MV

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>w</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤ 2; NaOH + ZnAct ≥ 9, NaOH ≥ 12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

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

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 10-7-16

February 06, 2017

DAVID LARSEN
REI
4080 NORTH 20TH AVENUE
Wausau, WI 54401

RE: Project: 5377 AXUC FOUR CORNERS
Pace Project No.: 40145071

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40145071001	MW1R	Water	01/26/17 16:30	02/01/17 08:50
40145071002	MW2R	Water	01/26/17 16:40	02/01/17 08:50
40145071003	MW3	Water	01/26/17 16:50	02/01/17 08:50
40145071004	MW4	Water	01/26/17 17:00	02/01/17 08:50
40145071005	MW5	Water	01/26/17 17:10	02/01/17 08:50
40145071006	MW6	Water	01/26/17 17:20	02/01/17 08:50
40145071007	POTABLE	Water	01/26/17 17:30	02/01/17 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40145071001	MW1R	WI MOD GRO	ALD	10	PASI-G
40145071002	MW2R	WI MOD GRO	ALD	10	PASI-G
40145071003	MW3	WI MOD GRO	ALD	10	PASI-G
40145071004	MW4	WI MOD GRO	ALD	10	PASI-G
40145071005	MW5	WI MOD GRO	ALD	10	PASI-G
40145071006	MW6	WI MOD GRO	ALD	10	PASI-G
40145071007	POTABLE	EPA 524.2	DJB	63	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

Sample: MW1R Lab ID: 40145071001 Collected: 01/26/17 16:30 Received: 02/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	937	ug/L	10.0	4.0	10		02/02/17 12:19	71-43-2	
Ethylbenzene	7.4J	ug/L	10.0	3.9	10		02/02/17 12:19	100-41-4	
Methyl-tert-butyl ether	<4.8	ug/L	10.0	4.8	10		02/02/17 12:19	1634-04-4	
Naphthalene	<4.2	ug/L	10.0	4.2	10		02/02/17 12:19	91-20-3	
Toluene	<3.9	ug/L	10.0	3.9	10		02/02/17 12:19	108-88-3	
1,2,4-Trimethylbenzene	<4.2	ug/L	10.0	4.2	10		02/02/17 12:19	95-63-6	
1,3,5-Trimethylbenzene	<4.2	ug/L	10.0	4.2	10		02/02/17 12:19	108-67-8	
m&p-Xylene	<8.0	ug/L	20.0	8.0	10		02/02/17 12:19	179601-23-1	
o-Xylene	<4.5	ug/L	10.0	4.5	10		02/02/17 12:19	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		10		02/02/17 12:19	98-08-8	

Sample: MW2R Lab ID: 40145071002 Collected: 01/26/17 16:40 Received: 02/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	9.5	ug/L	1.0	0.40	1		02/02/17 09:46	71-43-2	
Ethylbenzene	2.5	ug/L	1.0	0.39	1		02/02/17 09:46	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		02/02/17 09:46	1634-04-4	
Naphthalene	0.66J	ug/L	1.0	0.42	1		02/02/17 09:46	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		02/02/17 09:46	108-88-3	
1,2,4-Trimethylbenzene	4.1	ug/L	1.0	0.42	1		02/02/17 09:46	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		02/02/17 09:46	108-67-8	
m&p-Xylene	0.92J	ug/L	2.0	0.80	1		02/02/17 09:46	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		02/02/17 09:46	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		02/02/17 09:46	98-08-8	

Sample: MW3 Lab ID: 40145071003 Collected: 01/26/17 16:50 Received: 02/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		02/02/17 10:11	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		02/02/17 10:11	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		02/02/17 10:11	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		02/02/17 10:11	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		02/02/17 10:11	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		02/02/17 10:11	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		02/02/17 10:11	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		02/02/17 10:11	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		02/02/17 10:11	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

Sample: MW3 **Lab ID: 40145071003** Collected: 01/26/17 16:50 Received: 02/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Surrogates

a,a,a-Trifluorotoluene (S)	101	%	80-120		1		02/02/17 10:11	98-08-8	
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Sample: MW4 **Lab ID: 40145071004** Collected: 01/26/17 17:00 Received: 02/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	<0.40	ug/L	1.0	0.40	1		02/02/17 10:37	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		02/02/17 10:37	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		02/02/17 10:37	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		02/02/17 10:37	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		02/02/17 10:37	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		02/02/17 10:37	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		02/02/17 10:37	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		02/02/17 10:37	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		02/02/17 10:37	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		02/02/17 10:37	98-08-8	

Sample: MW5 **Lab ID: 40145071005** Collected: 01/26/17 17:10 Received: 02/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	<0.40	ug/L	1.0	0.40	1		02/02/17 11:03	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		02/02/17 11:03	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		02/02/17 11:03	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		02/02/17 11:03	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		02/02/17 11:03	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		02/02/17 11:03	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		02/02/17 11:03	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		02/02/17 11:03	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		02/02/17 11:03	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		02/02/17 11:03	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

Sample: MW6 Lab ID: 40145071006 Collected: 01/26/17 17:20 Received: 02/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		02/02/17 11:28	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		02/02/17 11:28	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		02/02/17 11:28	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		02/02/17 11:28	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		02/02/17 11:28	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		02/02/17 11:28	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		02/02/17 11:28	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		02/02/17 11:28	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		02/02/17 11:28	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		02/02/17 11:28	98-08-8	

Sample: POTABLE Lab ID: 40145071007 Collected: 01/26/17 17:30 Received: 02/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV Analytical Method: EPA 524.2									
Benzene	<0.086	ug/L	0.50	0.086	1		02/03/17 17:16	71-43-2	
Bromobenzene	<0.081	ug/L	0.50	0.081	1		02/03/17 17:16	108-86-1	
Bromochloromethane	<0.16	ug/L	1.0	0.16	1		02/03/17 17:16	74-97-5	
Bromodichloromethane	<0.090	ug/L	1.0	0.090	1		02/03/17 17:16	75-27-4	
Bromoform	<0.23	ug/L	4.0	0.23	1		02/03/17 17:16	75-25-2	
Bromomethane	<0.20	ug/L	4.0	0.20	1		02/03/17 17:16	74-83-9	
n-Butylbenzene	<0.081	ug/L	0.50	0.081	1		02/03/17 17:16	104-51-8	
sec-Butylbenzene	<0.063	ug/L	0.50	0.063	1		02/03/17 17:16	135-98-8	
tert-Butylbenzene	<0.097	ug/L	0.50	0.097	1		02/03/17 17:16	98-06-6	
Carbon tetrachloride	<0.076	ug/L	1.0	0.076	1		02/03/17 17:16	56-23-5	
Chlorobenzene	<0.068	ug/L	0.50	0.068	1		02/03/17 17:16	108-90-7	
Chloroethane	<0.18	ug/L	1.0	0.18	1		02/03/17 17:16	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		02/03/17 17:16	67-66-3	
Chloromethane	<0.21	ug/L	4.0	0.21	1		02/03/17 17:16	74-87-3	
2-Chlorotoluene	<0.11	ug/L	0.50	0.11	1		02/03/17 17:16	95-49-8	
4-Chlorotoluene	<0.10	ug/L	0.50	0.10	1		02/03/17 17:16	106-43-4	
1,2-Dibromo-3-chloropropane	<0.18	ug/L	4.0	0.18	1		02/03/17 17:16	96-12-8	
Dibromochloromethane	<0.13	ug/L	0.50	0.13	1		02/03/17 17:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.091	ug/L	0.50	0.091	1		02/03/17 17:16	106-93-4	
Dibromomethane	<0.098	ug/L	1.0	0.098	1		02/03/17 17:16	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	0.50	0.10	1		02/03/17 17:16	95-50-1	
1,3-Dichlorobenzene	<0.082	ug/L	0.50	0.082	1		02/03/17 17:16	541-73-1	
1,4-Dichlorobenzene	<0.075	ug/L	0.50	0.075	1		02/03/17 17:16	106-46-7	
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		02/03/17 17:16	75-71-8	
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		02/03/17 17:16	75-34-3	
1,2-Dichloroethane	<0.092	ug/L	0.50	0.092	1		02/03/17 17:16	107-06-2	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		02/03/17 17:16	75-35-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

Sample: POTABLE **Lab ID: 40145071007** Collected: 01/26/17 17:30 Received: 02/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV Analytical Method: EPA 524.2									
cis-1,2-Dichloroethene	<0.085	ug/L	0.50	0.085	1		02/03/17 17:16	156-59-2	
trans-1,2-Dichloroethene	<0.11	ug/L	0.50	0.11	1		02/03/17 17:16	156-60-5	
1,2-Dichloropropane	<0.084	ug/L	4.0	0.084	1		02/03/17 17:16	78-87-5	
1,3-Dichloropropane	<0.094	ug/L	0.50	0.094	1		02/03/17 17:16	142-28-9	
2,2-Dichloropropane	<0.097	ug/L	1.0	0.097	1		02/03/17 17:16	594-20-7	
1,1-Dichloropropene	<0.080	ug/L	0.50	0.080	1		02/03/17 17:16	563-58-6	
cis-1,3-Dichloropropene	<0.071	ug/L	0.50	0.071	1		02/03/17 17:16	10061-01-5	
trans-1,3-Dichloropropene	<0.055	ug/L	0.50	0.055	1		02/03/17 17:16	10061-02-6	
Ethylbenzene	<0.051	ug/L	0.50	0.051	1		02/03/17 17:16	100-41-4	
Hexachloro-1,3-butadiene	<0.11	ug/L	4.0	0.11	1		02/03/17 17:16	87-68-3	
Isopropylbenzene (Cumene)	<0.11	ug/L	0.50	0.11	1		02/03/17 17:16	98-82-8	
p-Isopropyltoluene	<0.083	ug/L	0.50	0.083	1		02/03/17 17:16	99-87-6	
Methylene Chloride	<0.20	ug/L	4.0	0.20	1		02/03/17 17:16	75-09-2	
Naphthalene	<0.064	ug/L	1.0	0.064	1		02/03/17 17:16	91-20-3	
n-Propylbenzene	<0.096	ug/L	0.50	0.096	1		02/03/17 17:16	103-65-1	
Styrene	<0.075	ug/L	0.50	0.075	1		02/03/17 17:16	100-42-5	
1,1,1,2-Tetrachloroethane	<0.062	ug/L	0.50	0.062	1		02/03/17 17:16	630-20-6	
1,1,2,2-Tetrachloroethane	<0.11	ug/L	0.50	0.11	1		02/03/17 17:16	79-34-5	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		02/03/17 17:16	127-18-4	
Toluene	<0.080	ug/L	0.50	0.080	1		02/03/17 17:16	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	0.50	0.10	1		02/03/17 17:16	87-61-6	
1,2,4-Trichlorobenzene	<0.12	ug/L	0.50	0.12	1		02/03/17 17:16	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		02/03/17 17:16	71-55-6	
1,1,2-Trichloroethane	<0.098	ug/L	0.50	0.098	1		02/03/17 17:16	79-00-5	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		02/03/17 17:16	79-01-6	
Trichlorofluoromethane	<0.13	ug/L	0.50	0.13	1		02/03/17 17:16	75-69-4	
1,2,3-Trichloropropane	<0.073	ug/L	4.0	0.073	1		02/03/17 17:16	96-18-4	
1,2,4-Trimethylbenzene	<0.083	ug/L	0.50	0.083	1		02/03/17 17:16	95-63-6	
1,3,5-Trimethylbenzene	<0.078	ug/L	0.50	0.078	1		02/03/17 17:16	108-67-8	
Vinyl chloride	<0.098	ug/L	0.20	0.098	1		02/03/17 17:16	75-01-4	
Xylene (Total)	<0.073	ug/L	1.5	0.073	1		02/03/17 17:16	1330-20-7	
m&p-Xylene	<0.073	ug/L	1.0	0.073	1		02/03/17 17:16	179601-23-1	
o-Xylene	<0.073	ug/L	0.50	0.073	1		02/03/17 17:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		02/03/17 17:16	460-00-4	
Toluene-d8 (S)	92	%	75-125		1		02/03/17 17:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	94	%	75-125		1		02/03/17 17:16	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS
Pace Project No.: 40145071

QC Batch: 247516 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40145071001, 40145071002, 40145071003, 40145071004, 40145071005, 40145071006

METHOD BLANK: 1462489 Matrix: Water
Associated Lab Samples: 40145071001, 40145071002, 40145071003, 40145071004, 40145071005, 40145071006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	02/02/17 08:03	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	02/02/17 08:03	
Benzene	ug/L	<0.40	1.0	02/02/17 08:03	
Ethylbenzene	ug/L	<0.39	1.0	02/02/17 08:03	
m&p-Xylene	ug/L	<0.80	2.0	02/02/17 08:03	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	02/02/17 08:03	
Naphthalene	ug/L	<0.42	1.0	02/02/17 08:03	
o-Xylene	ug/L	<0.45	1.0	02/02/17 08:03	
Toluene	ug/L	<0.39	1.0	02/02/17 08:03	
a,a,a-Trifluorotoluene (S)	%	102	80-120	02/02/17 08:03	

LABORATORY CONTROL SAMPLE & LCSD: 1462490 1462491

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.8	20.2	94	101	80-120	7	20	
1,3,5-Trimethylbenzene	ug/L	20	18.4	19.7	92	98	80-120	7	20	
Benzene	ug/L	20	21.0	21.3	105	106	80-120	1	20	
Ethylbenzene	ug/L	20	19.6	20.6	98	103	80-120	5	20	
m&p-Xylene	ug/L	40	38.6	40.7	96	102	80-120	5	20	
Methyl-tert-butyl ether	ug/L	20	20.4	20.3	102	101	80-120	1	20	
Naphthalene	ug/L	20	18.1	19.3	91	96	80-120	6	20	
o-Xylene	ug/L	20	19.6	20.6	98	103	80-120	5	20	
Toluene	ug/L	20	20.2	20.8	101	104	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				101	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1462529 1462530

Parameter	Units	40145071001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,2,4-Trimethylbenzene	ug/L	<4.2	200	200	170	158	85	79	48-177	7	20		
1,3,5-Trimethylbenzene	ug/L	<4.2	200	200	167	156	84	78	73-145	7	20		
Benzene	ug/L	937	200	200	1200	1120	130	93	74-139	7	20		
Ethylbenzene	ug/L	7.4J	200	200	185	170	89	82	74-140	8	20		
m&p-Xylene	ug/L	<8.0	400	400	350	325	88	81	55-165	8	20		
Methyl-tert-butyl ether	ug/L	<4.8	200	200	171	163	86	81	80-120	5	20		
Naphthalene	ug/L	<4.2	200	200	160	160	80	80	73-133	0	20		
o-Xylene	ug/L	<4.5	200	200	176	163	88	81	73-136	8	20		
Toluene	ug/L	<3.9	200	200	180	169	90	84	80-128	7	20		

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1462529		1462530									
Parameter	Units	40145071001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
a,a,a-Trifluorotoluene (S)	%						101	102	80-120				

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS
Pace Project No.: 40145071

QC Batch: 458599 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40145071007

METHOD BLANK: 2509612 Matrix: Water
Associated Lab Samples: 40145071007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.062	0.50	02/03/17 15:25	
1,1,1-Trichloroethane	ug/L	<0.10	0.50	02/03/17 15:25	
1,1,2,2-Tetrachloroethane	ug/L	<0.11	0.50	02/03/17 15:25	
1,1,2-Trichloroethane	ug/L	<0.098	0.50	02/03/17 15:25	
1,1-Dichloroethane	ug/L	<0.088	0.50	02/03/17 15:25	
1,1-Dichloroethene	ug/L	<0.089	0.50	02/03/17 15:25	
1,1-Dichloropropene	ug/L	<0.080	0.50	02/03/17 15:25	
1,2,3-Trichlorobenzene	ug/L	<0.10	0.50	02/03/17 15:25	
1,2,3-Trichloropropane	ug/L	<0.073	4.0	02/03/17 15:25	
1,2,4-Trichlorobenzene	ug/L	<0.12	0.50	02/03/17 15:25	
1,2,4-Trimethylbenzene	ug/L	<0.083	0.50	02/03/17 15:25	
1,2-Dibromo-3-chloropropane	ug/L	<0.18	4.0	02/03/17 15:25	
1,2-Dibromoethane (EDB)	ug/L	<0.091	0.50	02/03/17 15:25	
1,2-Dichlorobenzene	ug/L	<0.10	0.50	02/03/17 15:25	
1,2-Dichloroethane	ug/L	<0.092	0.50	02/03/17 15:25	
1,2-Dichloropropane	ug/L	<0.084	4.0	02/03/17 15:25	
1,3,5-Trimethylbenzene	ug/L	<0.078	0.50	02/03/17 15:25	
1,3-Dichlorobenzene	ug/L	<0.082	0.50	02/03/17 15:25	
1,3-Dichloropropane	ug/L	<0.094	0.50	02/03/17 15:25	
1,4-Dichlorobenzene	ug/L	<0.075	0.50	02/03/17 15:25	
2,2-Dichloropropane	ug/L	<0.097	1.0	02/03/17 15:25	
2-Chlorotoluene	ug/L	<0.11	0.50	02/03/17 15:25	
4-Chlorotoluene	ug/L	<0.10	0.50	02/03/17 15:25	
Benzene	ug/L	<0.086	0.50	02/03/17 15:25	
Bromobenzene	ug/L	<0.081	0.50	02/03/17 15:25	
Bromochloromethane	ug/L	<0.16	1.0	02/03/17 15:25	
Bromodichloromethane	ug/L	<0.090	1.0	02/03/17 15:25	
Bromoform	ug/L	<0.23	4.0	02/03/17 15:25	
Bromomethane	ug/L	<0.20	4.0	02/03/17 15:25	
Carbon tetrachloride	ug/L	<0.076	1.0	02/03/17 15:25	
Chlorobenzene	ug/L	<0.068	0.50	02/03/17 15:25	
Chloroethane	ug/L	<0.18	1.0	02/03/17 15:25	
Chloroform	ug/L	<0.10	1.0	02/03/17 15:25	
Chloromethane	ug/L	<0.21	4.0	02/03/17 15:25	
cis-1,2-Dichloroethene	ug/L	<0.085	0.50	02/03/17 15:25	
cis-1,3-Dichloropropene	ug/L	<0.071	0.50	02/03/17 15:25	
Dibromochloromethane	ug/L	<0.13	0.50	02/03/17 15:25	
Dibromomethane	ug/L	<0.098	1.0	02/03/17 15:25	
Dichlorodifluoromethane	ug/L	<0.16	1.0	02/03/17 15:25	
Ethylbenzene	ug/L	<0.051	0.50	02/03/17 15:25	
Hexachloro-1,3-butadiene	ug/L	<0.11	4.0	02/03/17 15:25	

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS
Pace Project No.: 40145071

METHOD BLANK: 2509612 Matrix: Water
Associated Lab Samples: 40145071007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.11	0.50	02/03/17 15:25	
m&p-Xylene	ug/L	<0.073	1.0	02/03/17 15:25	
Methylene Chloride	ug/L	<0.20	4.0	02/03/17 15:25	
n-Butylbenzene	ug/L	<0.081	0.50	02/03/17 15:25	
n-Propylbenzene	ug/L	<0.096	0.50	02/03/17 15:25	
Naphthalene	ug/L	<0.064	1.0	02/03/17 15:25	
o-Xylene	ug/L	<0.073	0.50	02/03/17 15:25	
p-Isopropyltoluene	ug/L	<0.083	0.50	02/03/17 15:25	
sec-Butylbenzene	ug/L	<0.063	0.50	02/03/17 15:25	
Styrene	ug/L	<0.075	0.50	02/03/17 15:25	
tert-Butylbenzene	ug/L	<0.097	0.50	02/03/17 15:25	
Tetrachloroethene	ug/L	<0.12	0.50	02/03/17 15:25	
Toluene	ug/L	<0.080	0.50	02/03/17 15:25	
trans-1,2-Dichloroethene	ug/L	<0.11	0.50	02/03/17 15:25	
trans-1,3-Dichloropropene	ug/L	<0.055	0.50	02/03/17 15:25	
Trichloroethene	ug/L	<0.044	0.40	02/03/17 15:25	
Trichlorofluoromethane	ug/L	<0.13	0.50	02/03/17 15:25	
Vinyl chloride	ug/L	<0.098	0.20	02/03/17 15:25	
Xylene (Total)	ug/L	<0.073	1.5	02/03/17 15:25	
1,2-Dichloroethane-d4 (S)	%	98	75-125	02/03/17 15:25	
4-Bromofluorobenzene (S)	%	98	75-125	02/03/17 15:25	
Toluene-d8 (S)	%	92	75-125	02/03/17 15:25	

LABORATORY CONTROL SAMPLE & LCSD: 2509613

Parameter	Units	2509614		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
1,1,1,2-Tetrachloroethane	ug/L	20	22.1	111	110	70-130	1	20	
1,1,1-Trichloroethane	ug/L	20	21.7	109	106	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	105	70-130	3	20	
1,1,2-Trichloroethane	ug/L	20	22.1	110	110	70-130	0	20	
1,1-Dichloroethane	ug/L	20	21.3	106	104	70-130	2	20	
1,1-Dichloroethene	ug/L	20	21.7	108	106	70-130	2	20	
1,1-Dichloropropene	ug/L	20	23.3	116	112	70-130	4	20	
1,2,3-Trichlorobenzene	ug/L	20	21.2	106	106	70-130	0	20	
1,2,3-Trichloropropane	ug/L	20	20.3	101	105	70-130	3	20	
1,2,4-Trichlorobenzene	ug/L	20	19.5	97	98	70-130	1	20	
1,2,4-Trimethylbenzene	ug/L	20	19.3	96	95	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	50	46.4	93	96	70-130	3	20	
1,2-Dibromoethane (EDB)	ug/L	20	21.2	106	105	70-130	1	20	
1,2-Dichlorobenzene	ug/L	20	20.7	104	104	70-130	0	20	
1,2-Dichloroethane	ug/L	20	20.8	104	102	70-130	2	20	
1,2-Dichloropropane	ug/L	20	22.6	113	110	70-130	3	20	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	96	70-130	3	20	
1,3-Dichlorobenzene	ug/L	20	21.0	105	105	70-130	1	20	

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

LABORATORY CONTROL SAMPLE & LCSD: 2509613		2509614								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,3-Dichloropropane	ug/L	20	21.3	21.2	107	106	70-130	1	20	
1,4-Dichlorobenzene	ug/L	20	21.3	20.9	106	105	70-130	2	20	
2,2-Dichloropropane	ug/L	20	20.4	19.6	102	98	70-130	4	20	
2-Chlorotoluene	ug/L	20	19.1	19.1	96	95	70-130	0	20	
4-Chlorotoluene	ug/L	20	20.0	19.8	100	99	70-130	1	20	
Benzene	ug/L	20	20.7	20.3	104	101	70-130	2	20	
Bromobenzene	ug/L	20	22.0	21.6	110	108	70-130	2	20	
Bromochloromethane	ug/L	20	24.5	24.3	123	121	70-130	1	20	
Bromodichloromethane	ug/L	20	23.9	23.4	120	117	70-130	2	20	
Bromoform	ug/L	20	18.6	18.9	93	94	70-130	2	20	
Bromomethane	ug/L	20	20.9	21.2	104	106	70-130	1	20	
Carbon tetrachloride	ug/L	20	23.1	22.2	116	111	70-130	4	20	
Chlorobenzene	ug/L	20	21.1	21.0	106	105	70-130	1	20	
Chloroethane	ug/L	20	23.3	21.9	117	109	70-130	6	20	
Chloroform	ug/L	20	21.4	21.0	107	105	70-130	2	20	
Chloromethane	ug/L	20	17.1	17.4	85	87	70-130	2	20	
cis-1,2-Dichloroethene	ug/L	20	21.7	21.2	108	106	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	20	21.1	21.1	106	105	70-130	0	20	
Dibromochloromethane	ug/L	20	21.7	21.9	109	110	70-130	1	20	
Dibromomethane	ug/L	20	22.9	22.4	114	112	70-130	2	20	
Dichlorodifluoromethane	ug/L	20	20.0	19.3	100	96	70-130	4	20	
Ethylbenzene	ug/L	20	20.2	19.8	101	99	70-130	2	20	
Hexachloro-1,3-butadiene	ug/L	20	21.7	21.9	108	109	70-130	1	20	
Isopropylbenzene (Cumene)	ug/L	20	19.5	18.9	97	95	70-130	3	20	
m&p-Xylene	ug/L	40	40.6	39.6	102	99	70-130	3	20	
Methylene Chloride	ug/L	20	23.1	22.9	116	115	70-130	1	20	
n-Butylbenzene	ug/L	20	18.7	18.2	94	91	70-130	3	20	
n-Propylbenzene	ug/L	20	19.4	18.8	97	94	70-130	3	20	
Naphthalene	ug/L	20	17.9	18.4	89	92	70-130	3	20	
o-Xylene	ug/L	20	19.7	19.4	98	97	70-130	1	20	
p-Isopropyltoluene	ug/L	20	18.4	18.1	92	90	70-130	2	20	
sec-Butylbenzene	ug/L	20	19.3	19.0	96	95	70-130	2	20	
Styrene	ug/L	20	20.4	20.2	102	101	70-130	1	20	
tert-Butylbenzene	ug/L	20	19.3	18.7	96	93	70-130	3	20	
Tetrachloroethene	ug/L	20	22.3	21.8	112	109	70-130	3	20	
Toluene	ug/L	20	20.4	20.3	102	102	70-130	0	20	
trans-1,2-Dichloroethene	ug/L	20	22.2	21.9	111	109	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	20	20.6	20.7	103	103	70-130	0	20	
Trichloroethene	ug/L	20	23.9	23.2	120	116	70-130	3	20	
Trichlorofluoromethane	ug/L	20	24.9	24.0	124	120	70-130	4	20	
Vinyl chloride	ug/L	20	21.0	20.5	105	102	70-130	3	20	
Xylene (Total)	ug/L	60	60.3	59.0	101	98	70-130	2	20	
1,2-Dichloroethane-d4 (S)	%				94	93	75-125			
4-Bromofluorobenzene (S)	%				95	95	75-125			
Toluene-d8 (S)	%				93	94	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS
Pace Project No.: 40145071

Parameter	Units	60237026001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.2	21.1	111	105	70-130	5	20					
1,1,1-Trichloroethane	ug/L	ND	20	20	22.6	22.0	113	110	70-130	3	20					
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.1	104	101	70-130	3	20					
1,1,2-Trichloroethane	ug/L	ND	20	20	21.5	20.8	108	104	70-130	3	20					
1,1-Dichloroethane	ug/L	ND	20	20	21.5	20.8	107	104	70-130	3	20					
1,1-Dichloroethene	ug/L	ND	20	20	23.2	22.4	116	112	70-130	4	20					
1,1-Dichloropropene	ug/L	ND	20	20	24.1	23.7	120	118	70-130	2	20					
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.6	21.5	103	108	70-130	4	20					
1,2,3-Trichloropropane	ug/L	ND	20	20	20.7	20.1	103	101	70-130	3	20					
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.9	19.1	95	95	70-130	1	20					
1,2,4-Trimethylbenzene	ug/L	0.23J	20	20	18.3	17.9	91	89	70-130	2	20					
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	50.6	48.3	101	97	70-130	5	20					
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.4	20.2	102	101	70-130	1	20					
1,2-Dichlorobenzene	ug/L	ND	20	20	20.2	19.9	101	100	70-130	1	20					
1,2-Dichloroethane	ug/L	ND	20	20	20.0	19.9	100	100	70-130	1	20					
1,2-Dichloropropane	ug/L	ND	20	20	22.1	22.0	110	110	70-130	1	20					
1,3,5-Trimethylbenzene	ug/L	0.14J	20	20	18.7	18.5	93	92	70-130	1	20					
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	70-130	2	20					
1,3-Dichloropropane	ug/L	ND	20	20	20.9	20.2	105	101	70-130	4	20					
1,4-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	70-130	2	20					
2,2-Dichloropropane	ug/L	ND	20	20	21.0	20.2	105	101	70-130	4	20					
2-Chlorotoluene	ug/L	ND	20	20	18.6	18.2	93	91	70-130	2	20					
4-Chlorotoluene	ug/L	ND	20	20	19.5	18.8	98	94	70-130	4	20					
Benzene	ug/L	ND	20	20	20.9	20.5	104	102	70-130	2	20					
Bromobenzene	ug/L	ND	20	20	21.3	21.0	106	105	70-130	1	20					
Bromochloromethane	ug/L	ND	20	20	23.8	23.5	119	117	70-130	1	20					
Bromodichloromethane	ug/L	ND	20	20	23.7	23.2	118	116	70-130	2	20					
Bromoform	ug/L	ND	20	20	18.5	18.3	93	92	70-130	1	20					
Bromomethane	ug/L	ND	20	20	21.5	20.5	107	102	70-130	5	20					
Carbon tetrachloride	ug/L	ND	20	20	23.9	23.3	120	117	70-130	2	20					
Chlorobenzene	ug/L	ND	20	20	21.0	20.3	105	101	70-130	4	20					
Chloroethane	ug/L	ND	20	20	21.6	20.7	108	103	70-130	4	20					
Chloroform	ug/L	ND	20	20	21.3	20.6	106	103	70-130	3	20					
Chloromethane	ug/L	ND	20	20	15.9	16.2	80	81	70-130	2	20					
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.2	21.2	106	106	70-130	0	20					
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.5	19.9	103	100	70-130	3	20					
Dibromochloromethane	ug/L	ND	20	20	21.2	20.8	106	104	70-130	2	20					
Dibromomethane	ug/L	ND	20	20	22.5	22.4	112	112	70-130	0	20					
Dichlorodifluoromethane	ug/L	ND	20	20	24.0	24.1	120	121	70-130	0	20					
Ethylbenzene	ug/L	0.00031J mg/L	20	20	20.3	19.7	100	97	70-130	3	20					
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.4	21.9	102	110	70-130	7	20					
Isopropylbenzene (Cumene)	ug/L	ND	20	20	18.4	18.0	92	90	70-130	2	20					
m&p-Xylene	ug/L	0.13J	40	40	40.0	38.5	100	96	70-130	4	20					
Methylene Chloride	ug/L	ND	20	20	23.2	22.4	116	112	70-130	3	20					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

Parameter	Units	2509615		2509616		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Max RPD	Qual
		60237026001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	17.2	17.3	86	87	70-130	1	20	
n-Propylbenzene	ug/L	ND	20	20	18.3	18.1	91	90	70-130	1	20	
Naphthalene	ug/L	0.00023J mg/L	20	20	19.5	19.1	96	94	70-130	2	20	
o-Xylene	ug/L	ND	20	20	19.2	18.8	96	94	70-130	2	20	
p-Isopropyltoluene	ug/L	ND	20	20	16.9	16.6	84	83	70-130	2	20	
sec-Butylbenzene	ug/L	ND	20	20	17.7	17.4	89	87	70-130	2	20	
Styrene	ug/L	ND	20	20	19.9	19.4	100	97	70-130	3	20	
tert-Butylbenzene	ug/L	ND	20	20	17.8	17.5	89	88	70-130	1	20	
Tetrachloroethene	ug/L	ND	20	20	22.4	22.2	112	111	70-130	1	20	
Toluene	ug/L	ND	20	20	20.8	19.9	104	99	70-130	5	20	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.7	22.6	114	113	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.1	19.6	100	98	70-130	3	20	
Trichloroethene	ug/L	ND	20	20	24.2	24.1	121	120	70-130	0	20	
Trichlorofluoromethane	ug/L	ND	20	20	27.8	27.2	139	136	70-130	2	20	M1
Vinyl chloride	ug/L	ND	20	20	22.5	22.8	112	114	70-130	2	20	
Xylene (Total)	ug/L	ND	60	60	59.2	57.3	99	95	70-130	3	20	
1,2-Dichloroethane-d4 (S)	%						93	93	75-125			
4-Bromofluorobenzene (S)	%						97	97	75-125			
Toluene-d8 (S)	%						93	92	75-125			

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QUALIFIERS

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5377 AXUC FOUR CORNERS

Pace Project No.: 40145071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40145071001	MW1R	WI MOD GRO	247516		
40145071002	MW2R	WI MOD GRO	247516		
40145071003	MW3	WI MOD GRO	247516		
40145071004	MW4	WI MOD GRO	247516		
40145071005	MW5	WI MOD GRO	247516		
40145071006	MW6	WI MOD GRO	247516		
40145071007	POTABLE	EPA 524.2	458599		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: LEI
 Branch/Location: DAVID LANSBRO
 Project Contact: 765-675-9769
 Phone: 5377444
 Project Number: Full Centers
 Project Name: Full Centers
 Project State: WI
 Sampled By (Print): David Lansbro
 Sampled By (Sign): [Signature]
 PO #: Regulatory
 Program: AC74



CHAIN OF CUSTODY

Transmittal Codes
 A=Name B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

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

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

Analyses Requested

V/N	Pick Label	DATE	TIME	MATRIX
N	B	12/17	4:30	Gas
N	B	12/17	4:40	?
X	X	12/17	4:50	?
X	X	12/17	5:00	?
X	X	12/17	5:10	?
X	X	12/17	5:20	?
X	X	12/17	5:30	DW

CLIENT COMMENTS

LAB COMMENTS
(Lab Use Only)

3-40MVB

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____
 Transmit Prelim Rush Results by (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Relinquished By: [Signature] Date/Time: 1-30-17 08:15AM
 Relinquished By: [Signature] Date/Time: 1/31/17 9:00AM
 Relinquished By: [Signature] Date/Time: 2/1/17 08:50

Received By: [Signature] Date/Time: 1/30/17 8:15AM
 Received By: [Signature] Date/Time: 1/31/17 8:15AM
 Received By: [Signature] Date/Time: 2/1/17 08:50

Receipt Temp = 201 °C
 Sample Receipt PH OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact


40145071

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: REI
Courier: Fed Ex UPS Client Pace Other: WALCO
Tracking #: 1272837-1

Project # **WO#: 40145071**

40145071

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: N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature: Uncorr: KDI /Corr: _____ Biological Tissue is Frozen: yes no
Temp Blank Present: yes no

Person examining contents:
Date: 2/1/17
Initials: [Signature]

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	<u>002 1-40 ml v B no date</u> <u>88 2/1/17</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

Project Manager Review: [Signature] Date: 2-1-17