

February 28, 2020



CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Wisconsin Department of Natural Resources

Attn: Ms. Carrie Stoltz
107 Sutliff Avenue
Rhineland, WI 54501



Subject:

Update Report
Lou John Appraisal
300 N Keller Avenue
Amery, WI
BRRTS #03-49-514936
PECFA #54001-1026-00

Dear Ms. Stoltz:

Enclosed is the Update Report for the above-mentioned site. REI has completed the approved post injection groundwater sampling and is recommending that this 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.
Senior Hydrogeologist/Project Manager

Enclosure

CC: Haley Appraisal, LLC., Attn: Mr. Pat Haley, 333 30th Ave, Clear Lake, WI 54005



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REI

**CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING**

UPDATE REPORT

**LOU JOHN APPRAISAL
300 N KELLER AVENUE
AMERY, WISCONSIN**

**WDNR BRRTS #03-49-514936
PECFA #54001-1026-00
REI PROJECT #6190**



**COMPREHENSIVE
SERVICES WITH
PRACTICAL
SOLUTIONS**



UPDATE REPORT

**LOU JOHN APPRAISAL
300 N KELLER AVENUE
AMERY, WI 54001**

**BRRTS #03-49-514936
PECFA #54001-1026-00**

REI #6190



PREPARED FOR:

**Haley Appraisal, LLC.
Attn: Mr. Pat Haley
333 30th Avenue
Clear Lake, WI 54005**

FEBRUARY 2020

UPDATE REPORT


**LOU JOHN APPRAISAL
300 N KELLER AVENUE
AMERY, WI 54001**

**BRRTS #03-49-514936
PECFA #54001-1026-00**

REI #6190

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 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 hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of Ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of Ch. GHSS 3, Wis. Admn. Code, and that to the best of my knowledge, all 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."

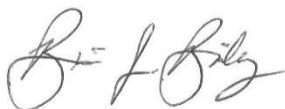


Hydrogeologist

2-28-20

Date

"I, Brian J. Bailey, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all 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."



Environmental Scientist

2-28-20

Date

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UPDATE REPORT

**LOU JOHN APPRAISAL
300 N KELLER AVENUE
AMERY, WI 54001**

**BRRTS #03-49-514936
PECFA #54001-1026-00**

REI #6190

1.0 INTRODUCTION

1.1 Purpose

This report presents the completion of an approved scope of services at the Lou John Appraisal site. The approval was for four (4) post carbon injection groundwater sampling events, disposal of investigative waste and submittal of an update report.

The property is located in the SE $\frac{1}{4}$, SW $\frac{1}{4}$, Section 28, Township 33N, Range 16W, Polk County, Wisconsin (Figure 1). The property boundaries, location of the structure and former USTs, the soil boring and monitoring well locations are depicted on the Figure 2 site map.

2.0 SUMMARY OF WORK

2.1 Groundwater Monitoring and Analytical Results

REI personnel completed the approved groundwater sampling on December 11, 2018, May 13, 2019, September 5, 2019 and February 11, 2020. Depth to water and water level elevation data is presented in Table 1. Groundwater samples were submitted to State certified laboratories for analysis of PVOC and naphthalene compounds. Groundwater analytical results from the REI completed sampling events are summarized in Tables 2a-n.

Monitoring well AAMW7 has been the only well with detectable concentrations greater than the NR 140.10 Groundwater Quality limits based on the results from the February 11, 2020 sampling results. While free product remains in well AAMW7, the dissolved phase concentrations have reduced significantly following the 2018 carbon injection scope of services.

A copy of the laboratory analytical reports from the post injection groundwater sampling events is included in Appendix A. All liquid waste generated during this scope of services was temporarily stored in 55-gallon WDOT approved drums and final disposal arrangements were completed allowing the disposal and treatment of the liquid waste at the City of Wausau wastewater treatment facility.

2.2 Free Product Abatement

REI personnel measured the thickness of free product with an electronic oil water interface probe. The well specific measured thickness of free product is detailed on Table 3.

3.0 CONCLUSION AND RECOMMENDATIONS

Based on the latest groundwater analytical results the degree and extent of the petroleum related groundwater plume has been adequately defined. Free product has been persistent in monitoring well AAMW7. Indoor air and soil gas samples suggest that vapor migration from the known soil and groundwater contamination does not appear to be a concern.

Monitoring well AAMW7 is the only well with residual groundwater contamination related to the former Lou John Appraisal release. While free product remains in place at AAMW7, the dissolved phase concentrations have reduced significantly following the 2018 carbon injection scope of services. While it appears that the carbon was not capable of addressing the residual free product, it appears to be successfully sequestering the dissolved phase impacts.

REI is recommending that this investigation be reviewed for case closure consideration. If the Department agrees that this site can be reviewed for case closure, REI will complete the WDNR Form 4400-202 Case Closure submittal to allow this investigation to be officially reviewed for case closure consideration.

Table 1
Depth to Water and Water Table Elevations
Lou John Appraisal
Amery, Wisconsin

Depth to Water (feet) below Reference Elevation

Date	MW1	MW2	MW3	AAMW1R	AAMW2R	AAMW5	AAMW6	AAMW7	AAMW8	AAMW9	AAMW16	AAMW17	AAMW18	AAMW19
7/21/2015	8.10	8.41		10.37	9.31	11.58	8.45	8.80	9.64	9.72	11.71	12.87	11.84	9.73
10/12/2015			8.71											
4/13/2016	7.84	8.14	8.72		9.10		8.22				11.59			
6/27/2016	8.08	8.37	8.87		9.24			8.93						
9/21/2017	8.16	8.44	8.96	10.43	9.39	Abandoned	8.52	9.18	Abandoned	Abandoned	11.87	Abandoned	Abandoned	Abandoned
12/11/2018	8.52	8.77	9.45				8.76	8.34						
5/13/2019	7.75	7.94	8.85	9.99	8.95		8.15				11.36			
9/5/2019	7.84	8.21	8.89	10.12	9.10			8.57			11.59			
2/11/2020	8.37	8.62	9.14	10.81	9.87		8.54	9.21						

Measuring Point Elevations

Elevations referenced to a U.S.G.S. Benchmark (feet MSL)

Initial Survey	1,074.58	1,074.65	1,074.00	1,076.21	1,075.21	1,074.40	1,074.23	1,074.71	1,075.48	1,075.56	1,075.62	1,078.54	1,077.53	1,075.62
----------------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Ground Surface Elevation

	1,074.82	1,075.04	1,074.35	1,076.56	1,075.72	1,074.64	1,074.73	1,075.00	1,075.90	1,075.83	1,075.67	1,078.73	1,077.64	1,075.67
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Depth to Water (feet) below Ground Surface

Average	8.32	8.75	9.30	10.69	9.79	11.82	8.94	9.13	10.06	9.99	11.67	13.06	11.95	9.78
Maximum	8.76	9.16	9.80	11.16	10.38	11.82	9.26	9.50	10.06	9.99	11.92	13.06	11.95	9.78
Minimum	7.99	8.33	9.06	10.34	9.46	11.82	8.65	8.63	10.06	9.99	11.41	13.06	11.95	9.78
Range	0.77	0.83	0.74	0.82	0.92	0.00	0.61	0.87	0.00	0.00	0.51	0.00	0.00	0.00

Water Level Elevation (feet MSL)

Date	MW1	MW2	MW3	AAMW1R	AAMW2R	AAMW5	AAMW6	AAMW7	AAMW8	AAMW9	AAMW16	AAMW17	AAMW18	AAMW19
7/21/2015	1,066.48	1,066.24		1,065.84	1,065.90	1,062.82	1,065.78	1,065.91	1,065.84	1,065.84	1,063.91	1,065.67	1,065.69	1,065.89
10/12/2015														
4/13/2016	1,066.74	1,066.51	1,065.28		1,066.11		1,066.01				1,064.03			
6/27/2016	1,066.50	1,066.28	1,065.13		1,065.97			1,065.78						
9/21/2017	1,066.42	1,066.21	1,065.04	1,065.78	1,065.82		1,065.71	1,065.53			1,063.75			
12/11/2018	1,066.06	1,065.88	1,064.55				1,065.47	1,066.37						
5/13/2019	1,066.83	1,066.71	1,065.15	1,066.22	1,066.26		1,066.08				1,064.26			
9/5/2019	1,066.74	1,066.44	1,065.11	1,066.09	1,066.11			1,066.14			1,064.03			
2/11/2020	1,066.21	1,066.03	1,064.86	1,065.40	1,065.34		1,065.69	1,065.50						

Free Product in well =

Table 2a
Summary of Groundwater Analytical Results
MW1
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	Oct 2018	12/11/2018	5/13/2019	9/5/2019	2/11/2020
Detected VOC Parameters	ES	PAL	Units									
Benzene	5	0.5	µg/l	< 0.50	< 0.40	< 0.40	< 0.40		< 0.31	< 0.25	< 0.25	< 0.25
Toluene	800	160	µg/l	< 0.50	< 0.39	< 0.39	< 0.39		< 0.49	< 0.17	< 0.17	< 0.17
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39	< 0.39	< 0.39		< 0.33	< 0.22	< 0.22	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80	< 0.80	< 0.80		< 0.66	< 0.47	< 0.47	< 0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48	< 0.48	< 0.48		< 0.32	< 1.2	< 1.2	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	0.76 ^J	< 0.42	< 0.42	< 0.42	Carbon Injection Completed	< 0.34	< 0.87	< 0.87	< 0.87
Naphthalene	100	10	µg/l	< 2.5	< 0.42	< 0.42	< 0.42		< 0.51	< 1.2	< 1.2	< 1.2
Field Measurements												
Temperature			°F	NA	NA	NA	63.21		53.2	49.5	61.0	NA
Conductivity			µS/cm	NA	NA	NA	587		2,667	1,508	850	NA
pH				NA	NA	NA	7.59	7.45	7.29	7.26	NA	
Dissolved Oxygen			mg/l	NA	NA	NA	4.96	3.31	6.94	3.2	NA	
ORP			mV	NA	NA	NA	38.4	96.1	178.2	154	NA	

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

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

Table 2b
Summary of Groundwater Analytical Results
MW2
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	Oct 2018	12/11/2018	5/13/2019	9/5/2019	2/11/2020	
Detected VOC Parameters	ES	PAL	Units										
Benzene	5	0.5	µg/l	< 0.50	< 0.40	< 0.40	< 0.40		< 0.31	< 0.25	< 0.25	< 0.25	
Toluene	800	160	µg/l	< 0.50	0.40 ^J	< 0.39	< 0.39		< 0.49	< 0.17	< 0.17	< 0.17	
Ethylbenzene	700	140	µg/l	0.64 ^J	< 0.39	< 0.39	0.93 ^J		2.0	< 0.22	< 0.22	0.33 ^J	
Xylenes (mixed isomers)	2,000	400	µg/l	2.31 ^J	0.80 ^J	< 0.80	2.23 ^J		3.8	< 0.47	< 0.47	0.55 ^J	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48	< 0.48	< 0.48	Carbon Injection Completed	0.43 ^J	< 1.2	< 1.2	< 1.2	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	33	< 0.42	< 0.42	2.2		0.90 ^J	< 0.87	< 0.87	5.1	
Naphthalene	100	10	µg/l	< 2.5	< 0.42	< 0.42	0.51 ^J		< 0.51	< 1.2	< 1.2	< 1.2	
Field Measurements													
Temperature			°F	NA	NA	NA	63.16		52.9	48.1	62.4	47.9	
Conductivity			µS/cm	NA	NA	NA	451		769	1,171	568.3	488.4	
pH				NA	NA	NA	7.39		7.21	7.2	6.74	7.05	
Dissolved Oxygen			mg/l	NA	NA	NA	1.40		0.35	0.74	0.87	0.24	
ORP			mV	NA	NA	NA	4.00		86.3	173.2	165.1	163.1	

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed
NS = Not Sampled
^J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2c
Summary of Groundwater Analytical Results
MW3
Lou John Appraisal
Amery, Wisconsin

			Date ->	10/12/2015	4/13/2016	6/27/2016	9/21/2017	Oct 2018	12/11/2018	5/13/2019	9/5/2019	2/11/2020
Detected VOC Parameters	ES	PAL	Units									
Benzene	5	0.5	µg/l	10.9	< 0.40	< 0.40	< 0.40	Carbon Injection Completed	< 0.31	< 0.25	< 0.25	< 0.25
Toluene	800	160	µg/l	20.0	< 0.39	< 0.39	< 0.39		< 0.49	< 0.17	< 0.17	< 0.17
Ethylbenzene	700	140	µg/l	1.5	< 0.39	< 0.39	< 0.39		< 0.33	< 0.22	< 0.22	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	5.7	< 0.80	< 0.80	< 0.80		< 0.66	< 0.47	< 0.47	< 0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48	< 0.48	< 0.48		< 0.32	< 1.2	< 1.2	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42	< 0.42	< 0.42		< 0.34	< 0.87	< 0.87	< 0.87
Naphthalene	100	10	µg/l	< 2.5	< 0.42	< 0.42	< 0.42		< 0.51	< 1.2	< 1.2	< 1.2
Field Measurements												
Temperature			°F	NA	NA	NA	62.44			51.5	47.5	61.1
Conductivity			µS/cm	NA	NA	NA	1,650		2,522	2,869	3,267	734.2
pH				NA	NA	NA	7.31		6.89	7.71	6.31	6.56
Dissolved Oxygen			mg/l	NA	NA	NA	1.45		2.42	2.30	4.26	4.89
ORP			mV	NA	NA	NA	34.6		187.9	165.5	181.7	196.3

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

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

Table 2d
Summary of Groundwater Analytical Results
AAMW1R
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	Oct 2018	12/11/2018	5/13/2019	9/5/2019	2/11/2020
Detected VOC Parameters	ES	PAL	Units									
Benzene	5	0.5	µg/l	<i>2.0</i>	Well Not Sampled	Well Not Sampled	Well Not Sampled	Carbon Injection Completed	Well Not Sampled	Well Not Sampled	Well Not Sampled	Well Not Sampled
Toluene	800	160	µg/l	15.9								
Ethylbenzene	700	140	µg/l	<i>141</i>								
Xylenes (mixed isomers)	2,000	400	µg/l	275								
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	0.91 ^J								
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<i>133.5</i>								
Naphthalene	100	10	µg/l	<i>16.9</i>								

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

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

Table 2e
Summary of Groundwater Analytical Results
AAMW2R
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	Oct 2018	12/11/2018	5/13/2019	9/5/2019	2/11/2020
Detected VOC Parameters	ES	PAL	Units									
Benzene	5	0.5	µg/l	254	Well Not Sampled	Well Not Sampled	Well Not Sampled	Carbon Injection Completed	Well Not Sampled	Well Not Sampled	Well Not Sampled	Well Not Sampled
Toluene	800	160	µg/l	7,310								
Ethylbenzene	700	140	µg/l	2,770								
Xylenes (mixed isomers)	2,000	400	µg/l	9,920								
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 48.5								
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1,599								
Naphthalene	100	10	µg/l	380								

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

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

Table 2f
Summary of Groundwater Analytical Results
AAMW5
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	10/31/2017
Detected VOC Parameters	ES	PAL	Units					
Benzene	5	0.5	µg/l	30.6	Well Not Sampled	Well Not Sampled	Well Not Sampled	Well Abandoned
Toluene	800	160	µg/l	0.54 ^J				
Ethylbenzene	700	140	µg/l	0.77 ^J				
Xylenes (mixed isomers)	2,000	400	µg/l	8.8				
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48				
Trimethylbenzenes (mixed isomers)	480	96	µg/l	3.2				
Naphthalene	100	10	µg/l	0.82 ^J				

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

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

Table 2g
Summary of Groundwater Analytical Results
AAMW6
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	Oct 2018	12/11/2018	5/13/2019	9/5/2019	2/11/2020
Detected VOC Parameters	ES	PAL	Units									
Benzene	5	0.5	µg/l	< 0.40	Well Not Sampled	Well Not Sampled	< 0.40	Carbon Injection Completed	< 0.31	< 0.25	< 0.25	< 0.25
Toluene	800	160	µg/l	< 0.39			< 0.39		< 0.17	< 0.17	< 0.17	
Ethylbenzene	700	140	µg/l	< 0.39			< 0.33		< 0.22	< 0.22	< 0.22	
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.80			< 0.66		< 0.47	< 0.47	< 0.47	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48			< 0.32		< 1.2	< 1.2	< 1.2	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.42			< 0.34		< 0.87	< 0.87	< 0.87	
Naphthalene	100	10	µg/l	< 0.42			< 0.51		< 1.2	< 1.2	< 1.2	
Field Measurements												
Temperature			°F	NA		61.95		51.4	49.1	61.4	46.3	
Conductivity			µS/cm	NA		7,979		7,965	7,730	7,088	7,506	
pH				NA		6.76		6.76	6.61	6.49	6.70	
Dissolved Oxygen			mg/l	NA		1.18		0.22	0.25	0.72	0.79	
ORP			mV	NA		89.4		133.4	198.2	141.0	211.1	

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

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

Table 2h
Summary of Groundwater Analytical Results
AAMW7
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	Oct 2018	12/11/2018	5/13/2019	9/5/2019	2/11/2020
Detected VOC Parameters	ES	PAL	Units									
Benzene	5	0.5	µg/l	1,050		733	971		34.7	78.3	28.9	36.6
Toluene	800	160	µg/l	1,190		893	1,200		<i>213</i>	<i>182</i>	13.4	159
Ethylbenzene	700	140	µg/l	<i>360</i>		<i>329</i>	<i>474</i>		134	120	5.0 ^J	63.3
Xylenes (mixed isomers)	2,000	400	µg/l	2,095		<i>1,735</i>	2,241		<i>1,471</i>	<i>954</i>	23	346.9
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48		< 4.8	< 9.7		<i>17</i>	< 12.5	< 12.5	< 2.5
Trimethylbenzenes (mixed isomers)	480	96	µg/l	676		581	795		480	<i>285.1</i>	< 8.7	<i>124.6</i>
Naphthalene	100	10	µg/l	219	Well Not Sampled	177	247	Carbon Injection Completed	<i>24.3</i>	<i>24.4^J</i>	< 11.8	<i>3.2^J</i>
Field Measurements												
Temperature			°F	NA		NA	NA		NA	NA	NA	NA
Conductivity			µS/cm	NA		NA	NA		NA	NA	NA	NA
pH				NA		NA	NA		NA	NA	NA	NA
Dissolved Oxygen			mg/l	NA		NA	NA		NA	NA	NA	NA
ORP			mV	NA		NA	NA		NA	NA	NA	NA

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

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

Table 2i
Summary of Groundwater Analytical Results
AAMW8
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	10/31/2017
Detected VOC Parameters	ES	PAL	Units					
Benzene	5	0.5	µg/l	1,270	Well Not Sampled	Well Not Sampled	Well Not Sampled	Well Abandoned
Toluene	800	160	µg/l	84.9				
Ethylbenzene	700	140	µg/l	482				
Xylenes (mixed isomers)	2,000	400	µg/l	1,899				
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 4.8				
Trimethylbenzenes (mixed isomers)	480	96	µg/l	296.8				
Naphthalene	100	10	µg/l	56.3				

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

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

Table 2j
Summary of Groundwater Analytical Results
AAMW9
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	10/31/2017
Detected VOC Parameters	ES	PAL	Units					
Benzene	5	0.5	µg/l	376	Well Not Sampled	Well Not Sampled	Well Not Sampled	Well Abandoned
Toluene	800	160	µg/l	28.7				
Ethylbenzene	700	140	µg/l	233				
Xylenes (mixed isomers)	2,000	400	µg/l	390.2				
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	5.0				
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<i>158.3</i>				
Naphthalene	100	10	µg/l	<i>31</i>				

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

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

Table 2k
Summary of Groundwater Analytical Results
AAMW16
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	Oct 2018	12/11/2018	5/13/2019	9/5/2019	2/11/2020						
Detected VOC Parameters	ES	PAL	Units															
Benzene	5	0.5	µg/l	< 0.40	Well Not Sampled	Well Not Sampled	NA	Carbon Injection Completed	Well Not Sampled	Well Not Sampled	< 0.25	Well Not Sampled						
Toluene	800	160	µg/l	< 0.39			NA				< 0.17							
Ethylbenzene	700	140	µg/l	< 0.39			NA				< 0.22							
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.80			NA				< 0.47							
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48			NA				< 1.2							
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.42			NA				< 0.87							
Naphthalene	100	10	µg/l	< 0.42			NA				< 1.2							
Field Measurements																		
Temperature			°F								61.54						56.6	
Conductivity			µS/cm			866					585.6							
pH						7.26					6.62							
Dissolved Oxygen			mg/l			5.28					5.62							
ORP			mV			62.6					146.5							

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

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

Table 21
Summary of Groundwater Analytical Results
AAMW17
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	10/31/2017
Detected VOC Parameters	ES	PAL	Units					
Benzene	5	0.5	µg/l	< 0.40	Well Not Sampled	Well Not Sampled	Well Not Sampled	Well Abandoned
Toluene	800	160	µg/l	< 0.39				
Ethylbenzene	700	140	µg/l	< 0.39				
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.80				
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48				
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.42				
Naphthalene	100	10	µg/l	< 0.42				

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

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

Table 2m
Summary of Groundwater Analytical Results
AAMW18
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	10/31/2017
Detected VOC Parameters	ES	PAL	Units					
Benzene	5	0.5	µg/l	< 0.40	Well Not Sampled	Well Not Sampled	Well Not Sampled	Well Abandoned
Toluene	800	160	µg/l	< 0.39				
Ethylbenzene	700	140	µg/l	< 0.39				
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.80				
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48				
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.42				
Naphthalene	100	10	µg/l	< 0.42				

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

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

Table 2n
Summary of Groundwater Analytical Results
AAMW19
Lou John Appraisal
Amery, Wisconsin

			Date ->	7/21/2015	4/13/2016	6/27/2016	9/21/2017	10/31/2017
Detected VOC Parameters	ES	PAL	Units					
Benzene	5	0.5	µg/l	< 0.40	Well Not Sampled	Well Not Sampled	Well Not Sampled	Well Abandoned
Toluene	800	160	µg/l	< 0.39				
Ethylbenzene	700	140	µg/l	< 0.39				
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.80				
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48				
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.42				
Naphthalene	100	10	µg/l	< 0.42				

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

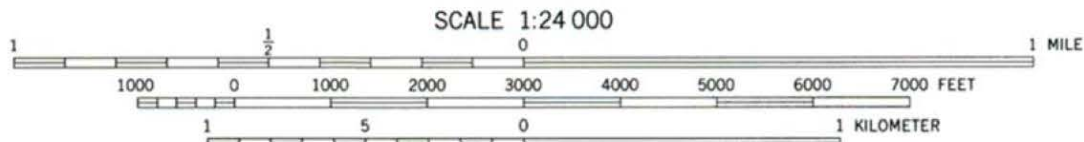
^J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3
Depth to Free Product and Free Product Thickness
Lou John Appraisal
Amery, WI

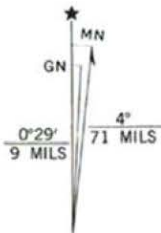
Depth To Free Product (feet) below Reference Elevation

Well Name	AAMW7		
	Depth to Product	Depth to Groundwater	Product Thickness (ft)
21-Jul-15	8.71	8.80	0.09
27-Jun-16	8.85	8.93	0.08
21-Sep-17	8.89	9.18	0.29
5-Sep-19	8.57	8.85	0.28
11-Feb-20	8.97	9.21	0.24

DRAWING FILE: P:\6100-6199\6190 LOU JOHN - AMERY.DWG\6190-VIGN.DWG LAYOUT: VIGN PLOTTED: JAN 17, 2018 - 10:06AM PLOTTED BY: MATTH



CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



UTM GRID AND 1978 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

AMERY, WIS.
 SE/4 BALSAM LAKE 15' QUADRANGLE
 N4515-W9215/7.5

1978

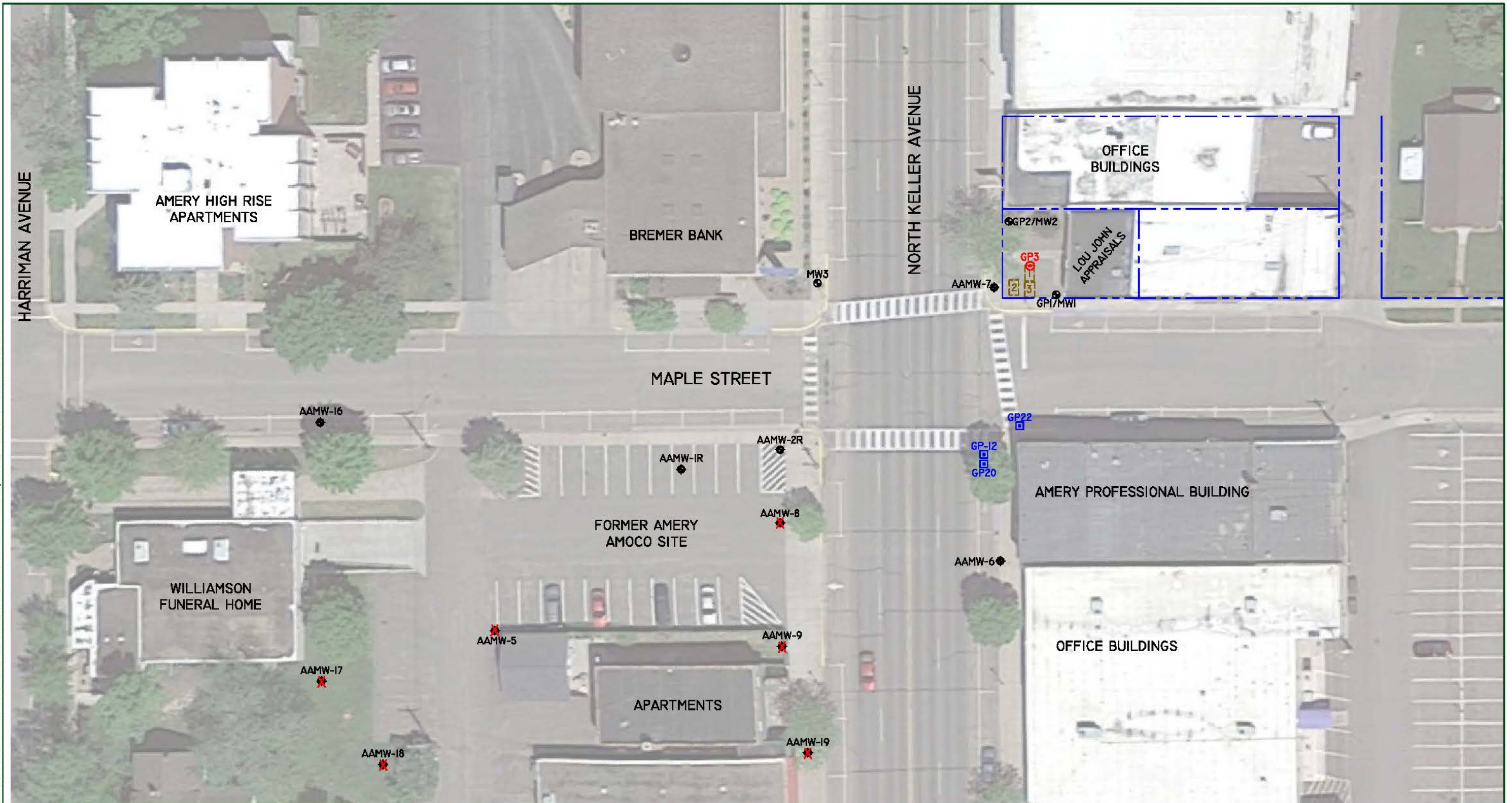
REI Engineering, INC.

LOU JOHN APPRAISAL SERVICE
 300 N. KELLER AVENUE
 AMERY, WISCONSIN

FIGURE 1 : SITE LOCATION MAP

PROJECT NO.	6190	DRAWN BY:	TAW	DATE:	1/15/2018
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DRAWING FILE: P:\6100-6199\6190 Lou JOHN - AMERY\DWG\6190-SITE.DWG LAYOUT: SITE PLOTTED: JAN 15, 2018 - 4:18PM PLOTTED BY: MATTH



LEGEND

0 40
SCALE: 1" = 40'

- AMERY AMOCO MONITORING WELLS BY OTHERS
- MONITORING WELL
- AMERY AMOCO MONITORING WELLS BY OTHERS (ABANDONED)
- GEOPROBE SOIL BORING BY OTHERS
- GEOPROBE SOIL BORING

TANK 1 560 GALLON LEADED GASOLINE - REMOVED 8/27/98
 TANK 2 1,000 GALLON LEADED GASOLINE - REMOVED 8/27/98
 TANK 3 560 GALLON LEADED GASOLINE - REMOVED 8/27/98

REI
 CIVIL & ENVIRONMENTAL
 ENGINEERING, SURVEYING

LOU JOHN APPRAISAL SERVICE
 300 N. KELLER AVENUE
 AMERY, WISCONSIN

FIGURE 2 : DETAILED SITE MAP

PROJECT No. 6190	DRAWN BY: MCM	DATE: 1/15/2018
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REI Engineering, INC.

APPENDIX A

GROUNDWATER ANALYTICAL REPORTS



December 20, 2018

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

RE: Project: 6190 LOU JOHN
Pace Project No.: 40181033

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2018. 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
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 6190 LOU JOHN

Pace Project No.: 40181033

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: 6190 LOU JOHN
Pace Project No.: 40181033

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40181033001	MW1	Water	12/11/18 16:30	12/14/18 09:00
40181033002	MW2	Water	12/11/18 16:45	12/14/18 09:00
40181033003	MW3	Water	12/11/18 16:50	12/14/18 09:00
40181033004	AAMW6	Water	12/11/18 17:00	12/14/18 09:00
40181033005	AAMW7	Water	12/11/18 17:05	12/14/18 09:00

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SAMPLE ANALYTE COUNT

Project: 6190 LOU JOHN

Pace Project No.: 40181033

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40181033001	MW1	WI MOD GRO	ALD	10
40181033002	MW2	WI MOD GRO	ALD	10
40181033003	MW3	WI MOD GRO	ALD	10
40181033004	AAMW6	WI MOD GRO	ALD	10
40181033005	AAMW7	WI MOD GRO	ALD	10

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40181033

Sample: MW1 **Lab ID: 40181033001** Collected: 12/11/18 16:30 Received: 12/14/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/18/18 10:43	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/18/18 10:43	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/18/18 10:43	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/18/18 10:43	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/18/18 10:43	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/18/18 10:43	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/18/18 10:43	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		12/18/18 10:43	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/18/18 10:43	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		1		12/18/18 10:43	98-08-8	HS,pH

Sample: MW2 **Lab ID: 40181033002** Collected: 12/11/18 16:45 Received: 12/14/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/18/18 11:09	71-43-2	
Ethylbenzene	2.0	ug/L	1.1	0.33	1		12/18/18 11:09	100-41-4	
Methyl-tert-butyl ether	0.43J	ug/L	1.1	0.32	1		12/18/18 11:09	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/18/18 11:09	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/18/18 11:09	108-88-3	
1,2,4-Trimethylbenzene	0.38J	ug/L	1.1	0.34	1		12/18/18 11:09	95-63-6	
1,3,5-Trimethylbenzene	0.52J	ug/L	1.1	0.33	1		12/18/18 11:09	108-67-8	
m&p-Xylene	2.2	ug/L	2.2	0.66	1		12/18/18 11:09	179601-23-1	
o-Xylene	1.6	ug/L	1.0	0.32	1		12/18/18 11:09	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	112	%	80-120		1		12/18/18 11:09	98-08-8	

Sample: MW3 **Lab ID: 40181033003** Collected: 12/11/18 16:50 Received: 12/14/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/18/18 11:35	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/18/18 11:35	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/18/18 11:35	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/18/18 11:35	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/18/18 11:35	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/18/18 11:35	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/18/18 11:35	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		12/18/18 11:35	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/18/18 11:35	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40181033

Sample: MW3 **Lab ID: 40181033003** Collected: 12/11/18 16:50 Received: 12/14/18 09:00 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)	96	%	80-120		1		12/18/18 11:35	98-08-8	
----------------------------	----	---	--------	--	---	--	----------------	---------	--

Sample: AAMW6 **Lab ID: 40181033004** Collected: 12/11/18 17:00 Received: 12/14/18 09:00 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	<0.31	ug/L	1.0	0.31	1		12/18/18 12:00	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/18/18 12:00	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/18/18 12:00	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/18/18 12:00	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/18/18 12:00	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/18/18 12:00	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/18/18 12:00	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		12/18/18 12:00	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/18/18 12:00	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1		12/18/18 12:00	98-08-8	

Sample: AAMW7 **Lab ID: 40181033005** Collected: 12/11/18 17:05 Received: 12/14/18 09:00 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	34.7	ug/L	10.2	3.1	10		12/19/18 11:58	71-43-2	
Ethylbenzene	134	ug/L	11.0	3.3	10		12/19/18 11:58	100-41-4	
Methyl-tert-butyl ether	17.0	ug/L	10.7	3.2	10		12/19/18 11:58	1634-04-4	
Naphthalene	24.3	ug/L	16.8	5.1	10		12/19/18 11:58	91-20-3	
Toluene	213	ug/L	16.3	4.9	10		12/19/18 11:58	108-88-3	
1,2,4-Trimethylbenzene	345	ug/L	11.4	3.4	10		12/19/18 11:58	95-63-6	
1,3,5-Trimethylbenzene	135	ug/L	10.9	3.3	10		12/19/18 11:58	108-67-8	
m&p-Xylene	1070	ug/L	21.8	6.6	10		12/19/18 11:58	179601-23-1	
o-Xylene	401	ug/L	10.5	3.2	10		12/19/18 11:58	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		10		12/19/18 11:58	98-08-8	HS

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6190 LOU JOHN
Pace Project No.: 40181033

QC Batch: 309455 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40181033001, 40181033002, 40181033003, 40181033004, 40181033005

METHOD BLANK: 1807755 Matrix: Water
Associated Lab Samples: 40181033001, 40181033002, 40181033003, 40181033004, 40181033005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	12/18/18 09:00	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	12/18/18 09:00	
Benzene	ug/L	<0.31	1.0	12/18/18 09:00	
Ethylbenzene	ug/L	<0.33	1.1	12/18/18 09:00	
m&p-Xylene	ug/L	<0.66	2.2	12/18/18 09:00	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	12/18/18 09:00	
Naphthalene	ug/L	<0.51	1.7	12/18/18 09:00	
o-Xylene	ug/L	<0.32	1.0	12/18/18 09:00	
Toluene	ug/L	<0.49	1.6	12/18/18 09:00	
a,a,a-Trifluorotoluene (S)	%	97	80-120	12/18/18 09:00	

LABORATORY CONTROL SAMPLE & LCSD: 1807756 1807757

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	20.2	20.2	101	101	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	19.6	19.6	98	98	80-120	0	20	
Benzene	ug/L	20	19.7	19.8	99	99	80-120	0	20	
Ethylbenzene	ug/L	20	20.1	20.1	101	101	80-120	0	20	
m&p-Xylene	ug/L	40	39.4	39.4	99	98	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	20.0	20.0	100	100	80-120	0	20	
Naphthalene	ug/L	20	20.4	20.2	102	101	80-120	1	20	
o-Xylene	ug/L	20	19.7	19.6	98	98	80-120	0	20	
Toluene	ug/L	20	19.8	19.8	99	99	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				97	98	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1808354 1808355

Parameter	Units	40181033003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	15.0	16.9	75	84	51-160	12	20	
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	16.4	18.1	82	91	56-146	10	20	
Benzene	ug/L	<0.31	20	20	21.3	20.7	106	104	71-137	3	20	
Ethylbenzene	ug/L	<0.33	20	20	21.5	21.2	108	106	71-141	2	20	
m&p-Xylene	ug/L	<0.66	40	40	39.5	40.1	99	100	66-141	2	20	
Methyl-tert-butyl ether	ug/L	<0.32	20	20	20.8	20.3	104	102	80-120	2	20	
Naphthalene	ug/L	<0.51	20	20	21.5	21.0	108	105	67-138	2	20	
o-Xylene	ug/L	<0.32	20	20	19.9	20.1	100	101	75-133	1	20	
Toluene	ug/L	<0.49	20	20	21.2	20.8	106	104	76-134	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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6190 LOU JOHN

Pace Project No.: 40181033

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1808354		1808355									
Parameter	Units	40181033003 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)	%						99	99	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: 6190 LOU JOHN

Pace Project No.: 40181033

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6190 LOU JOHN

Pace Project No.: 40181033

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40181033001	MW1	WI MOD GRO	309455		
40181033002	MW2	WI MOD GRO	309455		
40181033003	MW3	WI MOD GRO	309455		
40181033004	AAMW6	WI MOD GRO	309455		
40181033005	AAMW7	WI MOD GRO	309455		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: PEF

Branch/Location:

Project Contact: DAVID LARSEN

Phone: 715-625-9784

Project Number: 690

Project Name: LA JOHN

Project State: WI

Sampled By (Print): David Larsen

Sampled By (Sign): *David Larsen*

PO #:

Regulatory Program: PECPA



UPPER MIDWEST REGION

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

Page 1 of

40181033

Page 11 of 13

CHAIN OF CUSTODY

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

FILTERED?
(YES/NO)

PRESERVATION
(CODE)*

Y / N	Pick Letter	Analyses Requested									
	H	B	PCP/N								

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N
		DATE	TIME		
001	MW1	12/11/18	4:30	GW	X
002	MW2	1	4:45		X
003	MW3	1	4:50		X
004	AAMW6	1	5:00		X
005	AAMW7	1	5:05		X

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)	Profile #

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: <i>David Larsen</i>	Date/Time: 12-13-18 3:30 pm	Received By:	Date/Time:
Relinquished By: <i>Waltco</i>	Date/Time: 12/14/18 2:00	Received By: <i>David Larsen</i>	Date/Time: 12/14/18 2:00
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
40181033

Receipt Temp = 20.7 °C

Sample Receipt pH

OK / Adjusted

Cooler Custody Seal

Present / Not Present

Intact / Not Intact

Sample Preservation Receipt Form

Client Name: RET

Project # 4981033

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

Initial when completed:

Date/Time:


Lab Lot# of pH paper:

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

Pace Lab #	Glass							Plastic							Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)							
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN					
001																																					2.5 / 5 / 10	
002																																						2.5 / 5 / 10
003																																						2.5 / 5 / 10
004																																						2.5 / 5 / 10
005																																						2.5 / 5 / 10
006																																						2.5 / 5 / 10
007																																						2.5 / 5 / 10
008																																						2.5 / 5 / 10
009																																						2.5 / 5 / 10
010																																						2.5 / 5 / 10
011																																						2.5 / 5 / 10
012																																						2.5 / 5 / 10
013																																						2.5 / 5 / 10
014																																						2.5 / 5 / 10
015																																						2.5 / 5 / 10
016																																						2.5 / 5 / 10
017																																						2.5 / 5 / 10
018																																						2.5 / 5 / 10
019																																						2.5 / 5 / 10
020																																						2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO#: 40181033**

Client Name: REI

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



Tracking #: 1925411

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 19.2 / ICorr:

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 12/14/18
 Initials: [Signature]

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg #, results, invoice</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>12/14/18</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>01-4:40</u> <u>004-5:05</u> <u>005-5:00</u>
-Includes date/time/ID/Analysis Matrix:	<u>[Signature]</u>	<u>12/14/18</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
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: 12-14-18

May 21, 2019

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

RE: Project: 6190 LOU JOHN
Pace Project No.: 40187904

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2019. 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
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6190 LOU JOHN

Pace Project No.: 40187904

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: 6190 LOU JOHN

Pace Project No.: 40187904

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40187904001	MW1	Water	05/13/19 15:35	05/18/19 08:25
40187904002	MW2	Water	05/13/19 15:15	05/18/19 08:25
40187904003	MW3	Water	05/13/19 15:00	05/18/19 08:25
40187904004	AAMW6	Water	05/13/19 15:30	05/18/19 08:25
40187904005	AAMW7	Water	05/13/19 15:40	05/18/19 08:25

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SAMPLE ANALYTE COUNT

Project: 6190 LOU JOHN

Pace Project No.: 40187904

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40187904001	MW1	EPA 8260	LAP	12
40187904002	MW2	EPA 8260	LAP	12
40187904003	MW3	EPA 8260	LAP	12
40187904004	AAMW6	EPA 8260	LAP	12
40187904005	AAMW7	EPA 8260	LAP	12

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN
Pace Project No.: 40187904

Sample: MW1 Lab ID: 40187904001 Collected: 05/13/19 15:35 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/21/19 08:35	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/21/19 08:35	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/21/19 08:35	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/21/19 08:35	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/21/19 08:35	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/21/19 08:35	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/21/19 08:35	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/21/19 08:35	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/21/19 08:35	95-47-6	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		05/21/19 08:35	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/21/19 08:35	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		05/21/19 08:35	460-00-4	

Sample: MW2 Lab ID: 40187904002 Collected: 05/13/19 15:15 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/21/19 08:58	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/21/19 08:58	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/21/19 08:58	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/21/19 08:58	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/21/19 08:58	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/21/19 08:58	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/21/19 08:58	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/21/19 08:58	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/21/19 08:58	95-47-6	
Surrogates									
Dibromofluoromethane (S)	105	%	70-130		1		05/21/19 08:58	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		05/21/19 08:58	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		05/21/19 08:58	460-00-4	

Sample: MW3 Lab ID: 40187904003 Collected: 05/13/19 15:00 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/21/19 09:20	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/21/19 09:20	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/21/19 09:20	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/21/19 09:20	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/21/19 09:20	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40187904

Sample: MW3 Lab ID: 40187904003 Collected: 05/13/19 15:00 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/21/19 09:20	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/21/19 09:20	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/21/19 09:20	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/21/19 09:20	95-47-6	
Surrogates									
Dibromofluoromethane (S)	92	%	70-130		1		05/21/19 09:20	1868-53-7	
Toluene-d8 (S)	81	%	70-130		1		05/21/19 09:20	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		05/21/19 09:20	460-00-4	

Sample: AAMW6 Lab ID: 40187904004 Collected: 05/13/19 15:30 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		05/20/19 23:42	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/20/19 23:42	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/20/19 23:42	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/20/19 23:42	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		05/20/19 23:42	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/20/19 23:42	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/20/19 23:42	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/20/19 23:42	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/20/19 23:42	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		05/20/19 23:42	1868-53-7	
Toluene-d8 (S)	85	%	70-130		1		05/20/19 23:42	2037-26-5	
4-Bromofluorobenzene (S)	82	%	70-130		1		05/20/19 23:42	460-00-4	

Sample: AAMW7 Lab ID: 40187904005 Collected: 05/13/19 15:40 Received: 05/18/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	78.3	ug/L	10.0	2.5	10		05/21/19 01:57	71-43-2	
Ethylbenzene	120	ug/L	10.0	2.2	10		05/21/19 01:57	100-41-4	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		05/21/19 01:57	1634-04-4	
Naphthalene	24.4J	ug/L	50.0	11.8	10		05/21/19 01:57	91-20-3	
Toluene	182	ug/L	50.0	1.7	10		05/21/19 01:57	108-88-3	
1,2,4-Trimethylbenzene	209	ug/L	28.0	8.4	10		05/21/19 01:57	95-63-6	
1,3,5-Trimethylbenzene	76.1	ug/L	29.1	8.7	10		05/21/19 01:57	108-67-8	
m&p-Xylene	734	ug/L	20.0	4.7	10		05/21/19 01:57	179601-23-1	
o-Xylene	220	ug/L	10.0	2.6	10		05/21/19 01:57	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40187904

Sample: AAMW7 **Lab ID: 40187904005** Collected: 05/13/19 15:40 Received: 05/18/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260							
<i>Surrogates</i>									
Dibromofluoromethane (S)	92	%	70-130		10		05/21/19 01:57	1868-53-7	D3
Toluene-d8 (S)	100	%	70-130		10		05/21/19 01:57	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		10		05/21/19 01:57	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6190 LOU JOHN

Pace Project No.: 40187904

QC Batch: 321759 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
 Associated Lab Samples: 40187904001, 40187904002, 40187904003, 40187904004, 40187904005

METHOD BLANK: 1869007 Matrix: Water
 Associated Lab Samples: 40187904001, 40187904002, 40187904003, 40187904004, 40187904005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/20/19 15:52	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/20/19 15:52	
Benzene	ug/L	<0.25	1.0	05/20/19 15:52	
Ethylbenzene	ug/L	<0.22	1.0	05/20/19 15:52	
m&p-Xylene	ug/L	<0.47	2.0	05/20/19 15:52	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/20/19 15:52	
Naphthalene	ug/L	<1.2	5.0	05/20/19 15:52	
o-Xylene	ug/L	<0.26	1.0	05/20/19 15:52	
Toluene	ug/L	<0.17	5.0	05/20/19 15:52	
4-Bromofluorobenzene (S)	%	92	70-130	05/20/19 15:52	
Dibromofluoromethane (S)	%	94	70-130	05/20/19 15:52	
Toluene-d8 (S)	%	95	70-130	05/20/19 15:52	

LABORATORY CONTROL SAMPLE: 1869008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.0	88	70-130	
Ethylbenzene	ug/L	50	58.9	118	80-124	
m&p-Xylene	ug/L	100	118	118	70-130	
Methyl-tert-butyl ether	ug/L	50	42.4	85	54-137	
o-Xylene	ug/L	50	59.3	119	70-130	
Toluene	ug/L	50	54.9	110	80-126	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			90	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1869332 1869333

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40187879012 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	0.32J	50	50	42.9	42.8	85	85	70-130	0	20
Ethylbenzene	ug/L	<0.22	50	50	54.9	59.2	110	118	80-125	8	20
m&p-Xylene	ug/L	<0.47	100	100	110	117	110	117	70-130	6	20
Methyl-tert-butyl ether	ug/L	<1.2	50	50	47.4	49.1	95	98	51-145	4	20
o-Xylene	ug/L	<0.26	50	50	54.2	58.8	108	118	70-130	8	20
Toluene	ug/L	<0.17	50	50	50.7	51.3	101	103	80-131	1	20
4-Bromofluorobenzene (S)	%						102	104	70-130		
Dibromofluoromethane (S)	%						93	90	70-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6190 LOU JOHN

Pace Project No.: 40187904

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1869332 1869333												
Parameter	Units	40187879012 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%						101	97	70-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 6190 LOU JOHN

Pace Project No.: 40187904

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6190 LOU JOHN

Pace Project No.: 40187904

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40187904001	MW1	EPA 8260	321759		
40187904002	MW2	EPA 8260	321759		
40187904003	MW3	EPA 8260	321759		
40187904004	AAMW6	EPA 8260	321759		
40187904005	AAMW7	EPA 8260	321759		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: REI
Branch/Location: Wausau
Project Contact: Dave Larsen
Phone: 715-675-9784
Project Number: 6190
Project Name: Lou John
Project State: WI
Sampled By (Print): Ryan Rosch
Sampled By (Sign): *[Signature]*



UPPER MIDWEST REGION

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

40187904

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

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

Y/N	Pick Letter	Analysis Requested																			
N	B	PVOC + Naphthalene																			

Regulatory Program:

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	Y/N	Pick Letter	Analysis Requested													
		DATE	TIME																		
001	MW1	5/13/19	3:35	GW	X																
002	MW2		3:15		X																
003	MW3		3:00		X																
004	AAMW6		3:30		X																
005	AAMW7		3:40		X																

Quote #:

Mail To Contact: Dave Larsen

Mail To Company: REI

Mail To Address: dlarsen@enviengineering.com

Invoice To Contact: SAA

Invoice To Company: |

Invoice To Address: |

Invoice To Phone:

CLIENT COMMENTS | **LAB COMMENTS (Lab Use Only)** | **Profile #**

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: <i>[Signature]</i>	Date/Time: 5/17/19 4:40 pm
Relinquished By: <i>[Signature]</i>	Date/Time: 5/19/19 0925
Relinquished By:	Date/Time:
Relinquished By:	Date/Time:
Relinquished By:	Date/Time:

Received By:	Date/Time:
Received By: <i>[Signature]</i>	Date/Time: 5/19/19 0825
Received By:	Date/Time:
Received By:	Date/Time:
Received By:	Date/Time:

PACE Project No.
40187904

Receipt Temp = 201 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Sample Preservation Receipt Form

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

Page 13 of 14

Client Name: REL Loo

Project # W187904

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

Lab Lot# of pH paper:

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

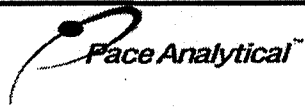
Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH \geq 2	NaOH+Zn Act pH \geq 9	NaOH pH \geq 12	HNO3 pH \geq 2	pH after adjusted	Volume (mL)					
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T	ZPLC	GN		
001																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			2.5 / 5 / 10
010																																			2.5 / 5 / 10
011																																			2.5 / 5 / 10
012																																			2.5 / 5 / 10
013																																			2.5 / 5 / 10
014																																			2.5 / 5 / 10
015																																			2.5 / 5 / 10
016																																			2.5 / 5 / 10
017																																			2.5 / 5 / 10
018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

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

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3B 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40187904



Client Name: REL

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

Tracking #: 2060822-1

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 paper

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 601 /Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 5/18/19
Initials: PS

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	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>DOH AAMW to lead a vGAM vials</u> <u>5/18/19 PS</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
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: 5-20-19

September 13, 2019

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

RE: Project: 6190 LOU JOHN
Pace Project No.: 40194679

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2019. 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
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6190 LOU JOHN

Pace Project No.: 40194679

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: 6190 LOU JOHN

Pace Project No.: 40194679

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40194679001	MW1	Water	09/05/19 11:45	09/10/19 09:20
40194679002	MW2	Water	09/05/19 11:30	09/10/19 09:20
40194679003	MW3	Water	09/05/19 11:00	09/10/19 09:20
40194679004	AAMW-6	Water	09/05/19 10:30	09/10/19 09:20
40194679005	AAMW-7	Water	09/05/19 10:55	09/10/19 09:20
40194679006	AAMW-16	Water	09/05/19 10:45	09/10/19 09:20

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SAMPLE ANALYTE COUNT

Project: 6190 LOU JOHN

Pace Project No.: 40194679

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40194679001	MW1	EPA 8260	HNW	12
40194679002	MW2	EPA 8260	HNW	12
40194679003	MW3	EPA 8260	HNW	12
40194679004	AAMW-6	EPA 8260	HNW	12
40194679005	AAMW-7	EPA 8260	HNW	12
40194679006	AAMW-16	EPA 8260	HNW	12

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40194679

Sample: MW1 **Lab ID: 40194679001** Collected: 09/05/19 11:45 Received: 09/10/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/12/19 13:03	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/12/19 13:03	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/12/19 13:03	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/12/19 13:03	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/12/19 13:03	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/12/19 13:03	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/12/19 13:03	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/12/19 13:03	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/12/19 13:03	95-47-6	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		09/12/19 13:03	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		09/12/19 13:03	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		09/12/19 13:03	460-00-4	

Sample: MW2 **Lab ID: 40194679002** Collected: 09/05/19 11:30 Received: 09/10/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/12/19 13:24	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/12/19 13:24	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/12/19 13:24	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/12/19 13:24	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/12/19 13:24	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/12/19 13:24	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/12/19 13:24	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/12/19 13:24	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/12/19 13:24	95-47-6	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		09/12/19 13:24	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		09/12/19 13:24	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		09/12/19 13:24	460-00-4	

Sample: MW3 **Lab ID: 40194679003** Collected: 09/05/19 11:00 Received: 09/10/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/12/19 23:35	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/12/19 23:35	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/12/19 23:35	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/12/19 23:35	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/12/19 23:35	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40194679

Sample: MW3 Lab ID: 40194679003 Collected: 09/05/19 11:00 Received: 09/10/19 09:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/12/19 23:35	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/12/19 23:35	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/12/19 23:35	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/12/19 23:35	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		09/12/19 23:35	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		09/12/19 23:35	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		09/12/19 23:35	460-00-4	

Sample: AAMW-6 Lab ID: 40194679004 Collected: 09/05/19 10:30 Received: 09/10/19 09:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		09/12/19 23:56	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/12/19 23:56	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/12/19 23:56	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/12/19 23:56	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/12/19 23:56	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/12/19 23:56	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/12/19 23:56	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/12/19 23:56	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/12/19 23:56	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		09/12/19 23:56	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		09/12/19 23:56	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		09/12/19 23:56	460-00-4	

Sample: AAMW-7 Lab ID: 40194679005 Collected: 09/05/19 10:55 Received: 09/10/19 09:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	28.9	ug/L	10.0	2.5	10		09/12/19 12:42	71-43-2	
Ethylbenzene	5.0J	ug/L	10.0	2.2	10		09/12/19 12:42	100-41-4	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		09/12/19 12:42	1634-04-4	
Naphthalene	<11.8	ug/L	50.0	11.8	10		09/12/19 12:42	91-20-3	
Toluene	13.4J	ug/L	50.0	1.7	10		09/12/19 12:42	108-88-3	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		09/12/19 12:42	95-63-6	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		09/12/19 12:42	108-67-8	
m&p-Xylene	23.0	ug/L	20.0	4.7	10		09/12/19 12:42	179601-23-1	
o-Xylene	7.1J	ug/L	10.0	2.6	10		09/12/19 12:42	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40194679

Sample: AAMW-7 **Lab ID: 40194679005** Collected: 09/05/19 10:55 Received: 09/10/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260							
<i>Surrogates</i>									
Dibromofluoromethane (S)	100	%	70-130		10		09/12/19 12:42	1868-53-7	D3
Toluene-d8 (S)	96	%	70-130		10		09/12/19 12:42	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		10		09/12/19 12:42	460-00-4	

Sample: AAMW-16 **Lab ID: 40194679006** Collected: 09/05/19 10:45 Received: 09/10/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		09/13/19 00:18	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/13/19 00:18	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/13/19 00:18	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/13/19 00:18	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		09/13/19 00:18	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/13/19 00:18	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/13/19 00:18	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/13/19 00:18	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/13/19 00:18	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	102	%	70-130		1		09/13/19 00:18	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		09/13/19 00:18	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		09/13/19 00:18	460-00-4	

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QUALITY CONTROL DATA

Project: 6190 LOU JOHN
Pace Project No.: 40194679

QC Batch: 333491 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40194679001, 40194679002, 40194679003, 40194679004, 40194679005, 40194679006

METHOD BLANK: 1935865 Matrix: Water
Associated Lab Samples: 40194679001, 40194679002, 40194679003, 40194679004, 40194679005, 40194679006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/12/19 07:20	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/12/19 07:20	
Benzene	ug/L	<0.25	1.0	09/12/19 07:20	
Ethylbenzene	ug/L	<0.22	1.0	09/12/19 07:20	
m&p-Xylene	ug/L	<0.47	2.0	09/12/19 07:20	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/12/19 07:20	
Naphthalene	ug/L	<1.2	5.0	09/12/19 07:20	
o-Xylene	ug/L	<0.26	1.0	09/12/19 07:20	
Toluene	ug/L	<0.17	5.0	09/12/19 07:20	
4-Bromofluorobenzene (S)	%	94	70-130	09/12/19 07:20	
Dibromofluoromethane (S)	%	102	70-130	09/12/19 07:20	
Toluene-d8 (S)	%	95	70-130	09/12/19 07:20	

LABORATORY CONTROL SAMPLE: 1935866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	47.7	95	70-130	
Ethylbenzene	ug/L	50	47.2	94	80-124	
m&p-Xylene	ug/L	100	97.0	97	70-130	
Methyl-tert-butyl ether	ug/L	50	28.3	57	54-137	
o-Xylene	ug/L	50	47.8	96	70-130	
Toluene	ug/L	50	48.5	97	80-126	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1936919 1936920

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40194733004 Result	Spike Conc.	Spike Conc.	Result							Result
Benzene	ug/L	1.5	50	50	48.6	49.3	94	95	70-130	1	20	
Ethylbenzene	ug/L	ND	50	50	48.2	48.8	96	98	80-125	1	20	
m&p-Xylene	ug/L	ND	100	100	103	100	102	100	70-130	2	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	30.4	30.7	59	59	51-145	1	20	
o-Xylene	ug/L	ND	50	50	49.9	49.3	100	99	70-130	1	20	
Toluene	ug/L	ND	50	50	48.3	49.2	97	98	80-131	2	20	
4-Bromofluorobenzene (S)	%						101	101	70-130			
Dibromofluoromethane (S)	%						103	101	70-130			

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

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QUALITY CONTROL DATA

Project: 6190 LOU JOHN

Pace Project No.: 40194679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1936919 1936920												
Parameter	Units	40194733004 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
			Spike	Spike		Result		Result				% Rec
			Conc.	Conc.					Limits			
Toluene-d8 (S)	%							95	94	70-130		

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

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QUALIFIERS

Project: 6190 LOU JOHN

Pace Project No.: 40194679

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6190 LOU JOHN

Pace Project No.: 40194679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40194679001	MW1	EPA 8260	333491		
40194679002	MW2	EPA 8260	333491		
40194679003	MW3	EPA 8260	333491		
40194679004	AAMW-6	EPA 8260	333491		
40194679005	AAMW-7	EPA 8260	333491		
40194679006	AAMW-16	EPA 8260	333491		

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(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of 1

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



40194679

Page 12 of 14

Company Name: REI
 Branch/Location: Wausau
 Project Contact: Dave Larsen
 Phone: 715-675-9784
 Project Number: 6190
 Project Name: Lou John
 Project State: WI
 Sampled By (Print): Dave Larsen
 Sampled By (Sign):
 PO #:
 Regulatory Program:

CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Analyses Requested	Matrix Codes																	
			A	B	C	D	E	F	G	H	I	J								
N	B	P VOC + Nephthalein																		

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW1	9/5/19	11:45	GW
002	MW2		11:30	
003	MW3		11:00	
004	AAMW-6		10:30	
005	AAMW-7		10:55	
006	AAMW-16		10:45	

Quote #:
 Mail To Contact: Dave Larson
 Mail To Company: REI
 Mail To Address: dlarsen@reieengineering.com
 Invoice To Contact: SAA
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	MM	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>By the</i> Date/Time: 9/9/19 3:45pm	Received By:	Date/Time:	PACE Project No.
	Transmit Prelim Rush Results by (complete what you want): Email #1: Email #2: Telephone: Fax:	Relinquished By: <i>Walter</i> Date/Time: 9/10/19 0920	Received By: <i>John T. Brunette Pace</i> Date/Time: 9/10/19 0920	
Samples on HOLD are subject to special pricing and release of liability	Relinquished By:	Received By:	Date/Time:	Sample Receipt pH OK / Adjusted Cooler Custody Seal Present / Not Present Intact / Not Intact

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 600
Green Bay, WI 54302

Client Name: REI

Project # 40194679

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

Initial when completed:

Date/Time:


Lab Lot# of pH paper:

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

Pace Lab #	Glass							Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤	pH after adjusted	Volume (mL)									
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN													
001																																							2.5 / 5 / 10
002																																							2.5 / 5 / 10
003																																							2.5 / 5 / 10
004																																							2.5 / 5 / 10
005																																							2.5 / 5 / 10
006																																							2.5 / 5 / 10
007																																							2.5 / 5 / 10
008																																							2.5 / 5 / 10
009																																							2.5 / 5 / 10
010																																							2.5 / 5 / 10
011																																							2.5 / 5 / 10
012																																							2.5 / 5 / 10
013																																							2.5 / 5 / 10
014																																							2.5 / 5 / 10
015																																							2.5 / 5 / 10
016																																							2.5 / 5 / 10
017																																							2.5 / 5 / 10
018																																							2.5 / 5 / 10
019																																							2.5 / 5 / 10
020																																							2.5 / 5 / 10

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

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3B 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:

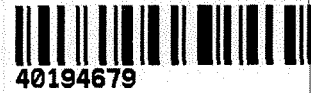
 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: REI
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____

WO#: 40194679



Tracking #: 2169977-1
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 SR - N/A **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 20.1 /Corr: _____

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

Person examining contents:
 Date: 9/10/19
 Initials: JTB

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
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: _____

Date: 9-10-19

February 21, 2020

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

RE: Project: 6190 LOU JOHN
Pace Project No.: 40203551

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on February 19, 2020. 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
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6190 LOU JOHN

Pace Project No.: 40203551

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 6190 LOU JOHN

Pace Project No.: 40203551

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40203551001	MW1	Water	02/11/20 12:40	02/19/20 09:25
40203551002	MW2	Water	02/11/20 12:25	02/19/20 09:25
40203551003	MW3	Water	02/11/20 12:10	02/19/20 09:25
40203551004	AAMW6	Water	02/11/20 11:55	02/19/20 09:25
40203551005	AAMW7	Water	02/11/20 12:55	02/19/20 09:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 6190 LOU JOHN
Pace Project No.: 40203551

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40203551001	MW1	EPA 8260	HNW	12
40203551002	MW2	EPA 8260	HNW	12
40203551003	MW3	EPA 8260	HNW	12
40203551004	AAMW6	EPA 8260	HNW	12
40203551005	AAMW7	EPA 8260	HNW	12

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40203551

Sample: MW1 **Lab ID: 40203551001** Collected: 02/11/20 12:40 Received: 02/19/20 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		02/21/20 09:13	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/21/20 09:13	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/21/20 09:13	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/21/20 09:13	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		02/21/20 09:13	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/21/20 09:13	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/21/20 09:13	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/21/20 09:13	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/21/20 09:13	95-47-6	
Surrogates									
Dibromofluoromethane (S)	105	%	70-130		1		02/21/20 09:13	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		02/21/20 09:13	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		02/21/20 09:13	460-00-4	

Sample: MW2 **Lab ID: 40203551002** Collected: 02/11/20 12:25 Received: 02/19/20 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		02/21/20 09:35	71-43-2	
Ethylbenzene	0.33J	ug/L	1.0	0.22	1		02/21/20 09:35	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/21/20 09:35	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/21/20 09:35	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		02/21/20 09:35	108-88-3	
1,2,4-Trimethylbenzene	5.1	ug/L	2.8	0.84	1		02/21/20 09:35	95-63-6	
1,3,5-Trimethylbenzene	2.3J	ug/L	2.9	0.87	1		02/21/20 09:35	108-67-8	
m&p-Xylene	0.48J	ug/L	2.0	0.47	1		02/21/20 09:35	179601-23-1	
o-Xylene	0.55J	ug/L	1.0	0.26	1		02/21/20 09:35	95-47-6	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		1		02/21/20 09:35	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		02/21/20 09:35	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		02/21/20 09:35	460-00-4	

Sample: MW3 **Lab ID: 40203551003** Collected: 02/11/20 12:10 Received: 02/19/20 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		02/21/20 10:20	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/21/20 10:20	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/21/20 10:20	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/21/20 10:20	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		02/21/20 10:20	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40203551

Sample: MW3 **Lab ID: 40203551003** Collected: 02/11/20 12:10 Received: 02/19/20 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/21/20 10:20	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/21/20 10:20	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/21/20 10:20	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/21/20 10:20	95-47-6	
Surrogates									
Dibromofluoromethane (S)	105	%	70-130		1		02/21/20 10:20	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		02/21/20 10:20	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		02/21/20 10:20	460-00-4	

Sample: AAMW6 **Lab ID: 40203551004** Collected: 02/11/20 11:55 Received: 02/19/20 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		02/21/20 10:42	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/21/20 10:42	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/21/20 10:42	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/21/20 10:42	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		02/21/20 10:42	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/21/20 10:42	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/21/20 10:42	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/21/20 10:42	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/21/20 10:42	95-47-6	
Surrogates									
Dibromofluoromethane (S)	105	%	70-130		1		02/21/20 10:42	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		02/21/20 10:42	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		02/21/20 10:42	460-00-4	

Sample: AAMW7 **Lab ID: 40203551005** Collected: 02/11/20 12:55 Received: 02/19/20 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	366	ug/L	2.0	0.49	2		02/20/20 14:11	71-43-2	
Ethylbenzene	63.3	ug/L	2.0	0.44	2		02/20/20 14:11	100-41-4	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		02/20/20 14:11	1634-04-4	
Naphthalene	3.2J	ug/L	10.0	2.4	2		02/20/20 14:11	91-20-3	
Toluene	159	ug/L	10.0	0.34	2		02/20/20 14:11	108-88-3	
1,2,4-Trimethylbenzene	86.7	ug/L	5.6	1.7	2		02/20/20 14:11	95-63-6	
1,3,5-Trimethylbenzene	37.9	ug/L	5.8	1.7	2		02/20/20 14:11	108-67-8	
m&p-Xylene	265	ug/L	4.0	0.93	2		02/20/20 14:11	179601-23-1	
o-Xylene	81.9	ug/L	2.0	0.52	2		02/20/20 14:11	95-47-6	

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ANALYTICAL RESULTS

Project: 6190 LOU JOHN

Pace Project No.: 40203551

Sample: AAMW7 **Lab ID: 40203551005** Collected: 02/11/20 12:55 Received: 02/19/20 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260							
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		2		02/20/20 14:11	1868-53-7	
Toluene-d8 (S)	102	%	70-130		2		02/20/20 14:11	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		2		02/20/20 14:11	460-00-4	

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QUALITY CONTROL DATA

Project: 6190 LOU JOHN
Pace Project No.: 40203551

QC Batch: 348154 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40203551001, 40203551002, 40203551003, 40203551004, 40203551005

METHOD BLANK: 2018400 Matrix: Water
Associated Lab Samples: 40203551001, 40203551002, 40203551003, 40203551004, 40203551005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	02/20/20 09:19	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	02/20/20 09:19	
Benzene	ug/L	<0.25	1.0	02/20/20 09:19	
Ethylbenzene	ug/L	<0.22	1.0	02/20/20 09:19	
m&p-Xylene	ug/L	<0.47	2.0	02/20/20 09:19	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	02/20/20 09:19	
Naphthalene	ug/L	<1.2	5.0	02/20/20 09:19	
o-Xylene	ug/L	<0.26	1.0	02/20/20 09:19	
Toluene	ug/L	<0.17	5.0	02/20/20 09:19	
4-Bromofluorobenzene (S)	%	95	70-130	02/20/20 09:19	
Dibromofluoromethane (S)	%	103	70-130	02/20/20 09:19	
Toluene-d8 (S)	%	101	70-130	02/20/20 09:19	

LABORATORY CONTROL SAMPLE: 2018401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	53.2	106	70-130	
Ethylbenzene	ug/L	50	53.9	108	80-124	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	44.5	89	54-137	
o-Xylene	ug/L	50	51.4	103	70-130	
Toluene	ug/L	50	52.3	105	80-126	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2018417 2018418

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40203553002 Result	Spike Conc.	Spike Conc.	Result						
Benzene	ug/L	32.4	50	50	81.7	83.0	99	101	70-130	2	20
Ethylbenzene	ug/L	17.0	50	50	68.4	70.0	103	106	80-125	2	20
m&p-Xylene	ug/L	35.4	100	100	135	138	99	102	70-130	2	20
Methyl-tert-butyl ether	ug/L	<1.2	50	50	43.2	42.4	86	85	51-145	2	20
o-Xylene	ug/L	1.1	50	50	49.9	50.9	98	100	70-130	2	20
Toluene	ug/L	4.5J	50	50	53.9	55.4	99	102	80-131	3	20
4-Bromofluorobenzene (S)	%						101	100	70-130		
Dibromofluoromethane (S)	%						104	103	70-130		

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

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QUALITY CONTROL DATA

Project: 6190 LOU JOHN

Pace Project No.: 40203551

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2018417		2018418									
Parameter	Units	40203553002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Toluene-d8 (S)	%						101	102	70-130				

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

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QUALIFIERS

Project: 6190 LOU JOHN

Pace Project No.: 40203551

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6190 LOU JOHN
Pace Project No.: 40203551

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40203551001	MW1	EPA 8260	348154		
40203551002	MW2	EPA 8260	348154		
40203551003	MW3	EPA 8260	348154		
40203551004	AAMW6	EPA 8260	348154		
40203551005	AAMW7	EPA 8260	348154		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)



UPPER MIDWEST REGION

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

Company Name: RET

Branch/Location: Wausau

Project Contact: Dene Larsen

Phone: 715-679-2411

Project Number: 6190

Project Name: Lou John

Project State: WI

Sampled By (Print): Paul Busha

Sampled By (Sign): [Signature]

PO #: _____ Regulatory Program: Pecfa

Data Package Options (billable)

EPA Level III

EPA Level IV

MS/MSD

On your sample (billable)

NOT needed on your sample

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW1	2-11-20	12:40	GW
007	MW2		12:25	
003	MW3		12:10	
004	AA MW6		11:55	
005	AA MW7		12:55	

CHAIN OF CUSTODY

Preservation Codes

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

FILTERED? (YES/NO) _____

PRESERVATION (CODE)* _____

Y/N	Pick Letter	Analyses Requested
<u>N</u>	<u>B</u>	<u>Pace / MW</u>

Quote #: _____

Mail To Contact: Dene Larsen

Mail To Company: RET

Mail To Address: _____

Invoice To Contact: SAA

Invoice To Company: SAA

Invoice To Address: _____

Invoice To Phone: _____

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

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: [Signature] Date/Time: 2-18-20 3:00 PM

Relinquished By: WATCO Date/Time: 2-19-20 0925

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: Madeline Z. Pohl Date/Time: Pace 2-19-20 0925

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

PACE Project No. 40203551

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Sample Preservation Receipt Form

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

Client Name: RET

Project # 60203551

Page 13 of 14

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

Lab Lot# of pH paper:

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

Initial when completed:

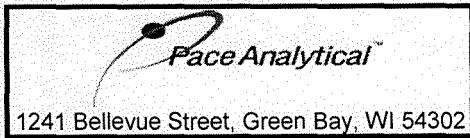
Date/Time:

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

MLR
2-11-20

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

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



Document Name: Sample Condition Upon Receipt (SCUR)
Document No.: F-GB-C-031-Rev.07

Document Revised: 25Apr2018
Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # _____

Client Name: REI

WO#: **40203551**



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

Tracking #: 2344113-1 MLR 2-19-20

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 packing paper MLR 2-19-20

Thermometer Used SR - n/a Type of Ice: Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI / Corr: ROI

Temp Blank Present: yes no MLR 2-19-20 Biological Tissue is Frozen: yes no

Person examining contents:
Date: 2-19-20
Initials: MLR

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>PO#, page #, invoice to phone</u> <u>MLR 2-19-20</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>sample labels state collection date 6-2019</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u> <u>MLR 2-19-20</u>		<u>MLR 2-19-20</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
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: 2-20-20