CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

April 29, 2019

Wisconsin Department of Natural Resources
Attn: Ms. Carrie Stoltz
107 Sutliff Avenue
Rhinelander, WI 54501

Subject:

Update Report
Greater Bass Lake Storage
N9276 Mill Rd
Summit Lake, WI 54485
WDNR BRRTS #03-34-563946
PECFA #54485-9999-76

Dear Carrie:

On behalf of Greater Bass Lake Storage, REI is submitting a Site Update for the above referenced project. REI has completed two (2) of the four (4) approved post carbon injection rounds of groundwater sampling.

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

Cc: Ms. Veronica Wagner, 2389 County Road Q, Pelican Lake, WI 54463

REI

CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Update Report
Greater Bass Lake Storage
N9276 Mill Rd
Summit Lake, WI 54485

BRRTS #03-34-563946
PECFA #54485-9999-76
REI Project #7083

COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS

UPDATE REPORT

GREATER BASS LAKE STORAGE
N9276 MILL RD
SUMMIT LAKE, WI 54485

BRRTS # 03-34-563946
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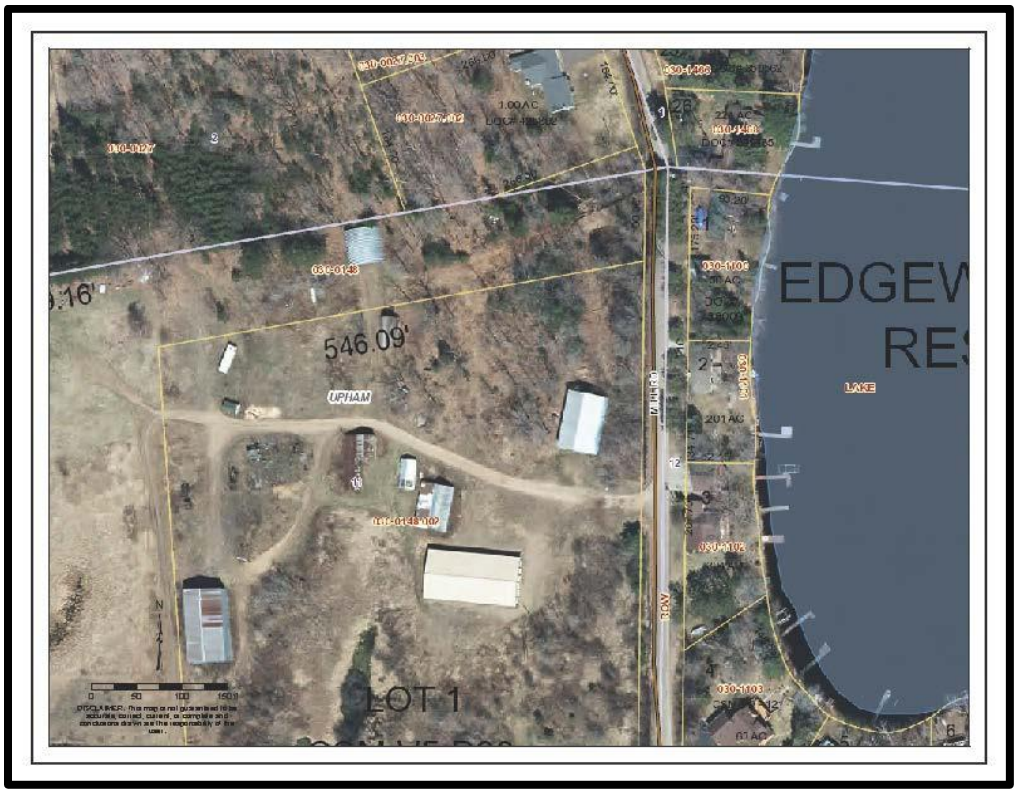
REI PROJECT #7083



PREPARED FOR:

Ms. Veronica Wagner
2389 County Road Q
Pelican Lake, WI 54463

APRIL 2019

UPDATE REPORT

GREATER BASS LAKE STORAGE
N9276 MILL RD
SUMMIT LAKE, WI 54485

BRRTS # 03-34-563946
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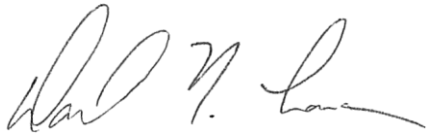
REI PROJECT #7083

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

""I, David N. Larsen, hereby certify that I am a 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 — 4-29-19 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 — 4-29-19 Date

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UPDATE REPORT

GREATER BASS LAKE STORAGE
N9276 MILL RD
SUMMIT LAKE, WI 54485

BRRTS # 03-34-563946
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1.0 INTRODUCTION

The site is located in the NE ¼ of the NE ¼ of Section 11, Township 33 North, Range 10 East, Town of Upham, Langlade County, WI, 5448 (Figure 1). The Wisconsin Transverse Mercator coordinates for the site are 582902, 543726. REI had completed the approved carbon-based injection scope of services in June 2018 and has completed two (2) of four (4) approved post injection groundwater sampling events. This report documents the groundwater analytical concentrations post carbon injection and compares them to pre-injection levels.

The groundwater contaminant plume originating from the Greater Bass Lake Storage release has commingled with another petroleum release originating from the former Raith Logging site located at N9307 Mill Road. REI is the consultant of record for the former Raith Logging investigation (BRRTS 03-34-001281) and the intent is to manage the two (2) investigations concurrently.

2.0 SUMMARY OF ACTIVITIES

2.1 Carbon Based Injection/Soil Vapor Extraction

Between June 6-11, 2018, REI was on site to oversee the proposed carbon based injection scope of services. Geologic Restoration, PLLC, of Pineville, North Carolina mobilized to the site with a CleanInject ® injection trailer and Gestra Engineering, Inc. of Milwaukee, WI was subcontracted to provide Geoprobe services.

A soil vapor extraction (SVE) system was installed and operated from June 21, 2018 to December 20, 2018. The location of the four (4) SVE extraction wells and remedial system is shown on Figure 2.

2.2 Monitoring Well Sampling Results

REI personnel completed two (2) post carbon injection groundwater sampling events. The samples were collected on June 12, 2018 and October 30, 2018. Depth to water was measured at each well sampled during each sampling event and is presented in Table 1. Tables 2a-i present groundwater analytical data for the REI sampling events. An excess of four (4) well volumes were removed from each well prior to sampling by REI personnel. All purge water was containerized and disposed of at the City of Wausau waste water treatment facility. Groundwater samples were collected and submitted to a state certified laboratory for chemical analysis. Copies of the analytical chemistry reports are presented in Appendix A.

Groundwater sample results document residual groundwater contamination in concentrations exceeding the NR 140.10 Groundwater Quality Enforcement Standards (ES) for petroleum compounds following the October 30, 2018 sample event at monitoring wells GB-1, GB-3 and GB-5.

Comparison of pre and post injection samples for each impacted monitoring well is discussed below:

GB-1: The limited pre-injection data documents a well impacted with petroleum compounds. Following the completion of the carbon injection and the operation of the SVE system, groundwater contaminant concentrations have been decreasing.

GB-3: The limited pre-injection data documents a well impacted with petroleum compounds. Following the completion of the carbon injection and the operation of the SVE system, groundwater contaminant concentrations have been decreasing.

GB-5: monitoring well GB-5 analytical results document an increase in contaminant concentrations immediately after the carbon injection and a reduction in concentrations in October 2018. The increase may be due to the impacted formation water displacement that occurred from carbon injection boring number 32 where 600 pounds of carbon was injected into the subsurface at a depth of twenty-two (22) feet. This boring location and depth had one the lowest recorded injection pressures. It was assumed that this location and depth represents a highly permeable zone for contaminant migration and a large volume of carbon was injected into the preferential pathway.

Figure 3 presents the water table contour map from the October 29, 2018 groundwater sampling event. This groundwater contour map is based on the recorded depths to water. It appears that frost action has shifted the casing elevations and that groundwater flow is shown to be southerly and is not consistent with historical groundwater flow directions. The historical flow direction from the Greater Bass Lake Storage site has been from the southwest to the northeast towards Greater Bass Lake where it commingles with the former Raith Logging groundwater contaminant plume.

2.3 Potable Well Sampling

REI collected samples from the source property (9276 Mill Rd) potable well during the sampling event on June 11, 2018. All samples were submitted to a state certified lab and analyzed for drinking water VOCs (EPA Method 524.2). All potable well samples analyzed revealed no VOC impact to potable water supply well (Table 2i).

3.0 Conclusion

The use of in-situ activated carbon appears to be an effective remedial option to address the dissolved phase groundwater contamination. The SVE system was designed to remove the petroleum source in the soil to limit future contaminant loading from the soil to the groundwater. Continued groundwater sampling will aid in determining overall long term effectiveness of the completed remedial options.

REI is recommending completion of the two (2) additional approved groundwater sampling events and a resurvey of casing elevations. If contaminant trends continue to stabilize and/or decrease, REI recommends that the site be considered for case closure.

Table 1
Groundwater Elevation Table
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

	GB-1	GB-2	GB-3	GB-4	GB-5	GB-6	GB-7	GB-8
Reference Elevation* (TOC)	1688.54	1691.02	1691.04	1690.64	1692.34	1693.61	1702.23	1690.91
Ground Elevation	1688.88	1691.27	1687.87	1687.88	1688.79	1691.24	1699.41	1687.93
Top of Well Screen Elevation	1669.28	1672.42	1668.12	1668.09	1669.43	1671.79	1674.29	1669.22
Length of Well Screen	10'	10'	10'	10'	10'	10'	10'	10'
Depth of Well	29.26	28.6	32.92	32.55	32.91	31.82	37.94	31.69
Date								
10/5/2016	18.36	20.63	21.08	20.42	22.27	23.27		
2/2/2017	18.84	21.26	21.61	19.96	22.78	23.81		
2/6/2017							32.5	20.44
6/12/2018	17.66	20.02	19.41	19.77	21.58	22.65	31.41	19.92
10/29/2018	18.41	19.72	20.11	19.49	21.34	22.37	31.11	19.33
Water Level Elevation (feet MSL)								
Date								
10/5/2016	1670.18	1670.39	1669.96	1670.22	1670.07	1670.34		
2/2/2017	1669.70	1669.76	1669.43	1670.68	1669.56	1669.80		
2/6/2017							1669.73	1670.47
6/12/2018	1670.88	1671.00	1671.63	1670.87	1670.76	1670.96	1670.82	1670.99
10/29/2018	1670.13	1671.30	1670.93	1671.15	1671.00	1671.24	1671.12	1671.58

*Elevations are referenced to a U.S.G.S. Benchmark (feet above Mean Sea Level).

Table 2.a
Groundwater Analytical Results Summary
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

GB-1								
PARAMETER	ES	PAL	10/5/16	2/2/17	6/11/18	06/12/18	06/21/18	10/29/18
Metals (ug/L)								
Dissolved Lead	15	1.5	**55.7**	<4.3		NA		NA
Detected VOC's (ug/L)								
Benzene	5	0.5	**5,910**	**434**	Carbon Injection Completed	**52.5**	SVE System Started	**9.1**
Ethylbenzene	700	140	**1,550**	*498*		*606*		*175*
Toluene	800	160	**7,840**	*745*		34		3.1[J]
Total Xylenes	2,000	400	**6,000**	**1,235**		*672.4*		179
Methyl-tert-Butyl Ether	60	12	*47.3[J]*	<4.8		< 3.2		< 1.6
Total Trimethylbenzenes	480	96	**2,155**	**1,013**		**1,755**		**557**
Naphthalene	100	10	**394**	**155**		**285**		*81.3*
1,2-Dibromoethane (EDB)	0.05	0.005	**139**	NA		NA		NA
1,2-Dichloroethane	5	0.5	**144**	NA		NA		NA
n-Propylbenzene			262	NA		NA		NA
Field Measurements								
Temperature (°F)			50.45	47.5		48.03		50.8
Conductivity (ms/cm)			494	149		214		91.2
Dissolved Oxygen (mg/L)			0.14	0.41		0.29		0.50
pH			6.61	6.32		7.98		6.47
Redox Potential (mV)			0.1	106.9		116.7		165.9

Notes:
PAL = Preventive Action Limit
ES = Enforcement Standards
Exceeds Enforcement Standard — **BOLD**
Exceeds Preventative Action Limit — *Italic*
NA - Not Analyzed
< - Concentration less than listed detection limit
[J] - Estimated concentration above the adjusted method detection limit and below the reporting limit

Table 2.b
Groundwater Analytical Results Summary
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

GB-2								
PARAMETER	**ES**	**PAL**	10/5/16	2/2/17	6/11/18	06/12/18	06/21/18	10/29/18
Metals (ug/L)								
Dissolved Lead	15	1.5	<8.7	<4.3		NA		NA
Detected VOC's (ug/L)								
Benzene	5	0.5	<0.50	<0.40	Carbon Injection Completed	< 0.31	SVE System Started	< 0.31
Ethylbenzene	700	140	<0.50	<0.39		< 0.49		< 0.49
Toluene	800	160	<0.50	<0.39		< 0.33		< 0.33
Total Xylenes	2,000	400	<1.5	<0.80		< 0.66		< 0.66
Methyl-tert-Butyl Ether	60	12	<0.17	<0.48		< 0.32		< 0.32
Total Trimethylbenzenes	480	96	<1.0	<0.42		< 0.34		< 0.34
Naphthalene	100	10	<2.5	<0.42		< 0.51		< 0.51
Field Measurements								
Temperature (°F)			49.26	46.8		44.47		49.3
Conductivity (ms/cm)			508	344		234		170.3
Dissolved Oxygen (mg/L)			0.57	0.59		0.29		0.41
pH			6.81	6.44		5.07		6.50
Redox Potential (mV)			-51.3	10.2		204.3		206.8

Notes:
PAL = Preventive Action Limit
ES = Enforcement Standards
Exceeds Enforcement Standard **BOLD**
Exceeds Preventative Action Limit *Italic*
NA - Not Analyzed
< - Concentration less than listed detection limit
J - Estimated concentration above the adjusted method detection limit and below the reporting limit

Table 2.c
Groundwater Analytical Results Summary
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

GB-3								
PARAMETER	**ES**	**PAL**	10/5/16	2/2/17	6/11/18	06/12/18	06/21/18	10/29/18
Metals (ug/L)								
Dissolved Lead	15	1.5	<4.3	<4.3		NA		NA
Detected VOC's (ug/L)								
Benzene	5	0.5	**1,180**	**873**	Carbon Injection Completed	**350**	SVE System Started	**103**
Ethylbenzene	700	140	**1,100**	*672*		*411*		*176*
Toluene	800	160	**1,510**	*527*		93.4		49.6
Total Xylenes	2,000	400	**3,518**	*1,658*		*934.1*		*424*
Methyl-tert-Butyl Ether	60	12	4.1	5.9[J]		< 3.2		1.4[J]
Total Trimethylbenzenes	480	96	**1,507**	**1,074**		**517**		*329.6*
Naphthalene	100	10	**284**	**161**		*94.8*		*57.7*
1,2-Dibromoethane (EDB)	0.05	0.005	**13.9**	NA		NA		NA
1,2-Dichloroethane	5	0.5	**12.1**	NA		NA		NA
Dichlorodifluoromethane	1,000	200	1.7	NA		NA		NA
Isopropylbenzene			67.4	NA		NA		NA
p-Isopropyltoluene			13.1	NA		NA		NA
n-Propylbenzene			243	NA		NA		NA
Field Measurements								
Temperature (°F)			48.28	47.03		44.00		48.3
Conductivity (ms/cm)			313	309		152		65.9
Dissolved Oxygen (mg/L)			0.45	0.36		1.36		1.49
pH			6.55	6.33		7.45		6.24
Redox Potential (mV)			-4.5	13.4		42.1		126

Notes:
PAL = Preventive Action Limit
ES = Enforcement Standards
Exceeds Enforcement Standard — **BOLD**
Exceeds Preventative Action Limit — *Italic*
NA - Not Analyzed
< - Concentration less than listed detection limit
[J] - Estimated concentration above the adjusted method detection limit and below the reporting limit

Table 2.d
Groundwater Analytical Results Summary
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

			GB-4					
PARAMETER	**ES**	**PAL**	10/5/16	2/2/17	6/11/18	06/12/18	06/21/18	10/29/18
Metals (ug/L)								
Dissolved Lead	15	1.5	<4.3	<4.3		NA		NA
Detected VOC's (ug/L)								
Benzene	5	0.5	*1.9*	*0.98j*	Carbon Injection Completed	< 0.31	SVE System Started	< 0.31
Ethylbenzene	700	140	<0.50	<0.39		< 0.49		< 0.49
Toluene	800	160	<0.50	<0.39		< 0.33		< 0.33
Total Xylenes	2,000	400	<1.5	<0.80		< 0.66		< 0.66
Methyl-tert-Butyl Ether	60	12	<0.17	<0.48		< 0.32		< 0.32
Total Trimethylbenzenes	480	96	<1.0	<0.42		< 0.34		< 0.34
Naphthalene	100	10	<2.5	<0.42		< 0.51		< 0.51
Field Measurements								
Temperature (°F)			51.83	44.87		44.06		52.6
Conductivity (ms/cm)			249	123		205		167.5
Dissolved Oxygen (mg/L)			0.23	0.38		0.21		1.43
pH			6.49	6.22		6.42		6.36
Redox Potential (mV)			19	91.5		121.8		162.9

Notes:
PAL = Preventive Action Limit
ES = Enforcement Standards
Exceeds Enforcement Standard **BOLD**
Exceeds Preventative Action Limit *Italic*
NA - Not Analyzed
< - Concentration less than listed detection limit
J - Estimated concentration above the adjusted method detection limit and below the reporting limit

Table 2.e
Groundwater Analytical Results Summary
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

GB-5								
PARAMETER	**ES**	**PAL**	10/5/16	2/2/17	6/11/18	06/12/18	06/21/18	10/29/18
Metals (ug/L)								
Dissolved Lead	15	1.5	<4.3	<8.7		NA		NA
Detected VOC's (ug/L)								
Benzene	5	0.5	**720**	**1,550**	Carbon Injection Completed	**2,060**	SVE System Started	**572**
Ethylbenzene	700	140	**1,830**	**1,550**		**1,940**		**1,520**
Toluene	800	160	**6,860**	**4,120**		**3,590**		**2,320**
Total Xylenes	2,000	400	**7,410**	**5,700**		**7,300**		**4,912**
Methyl-tert-Butyl Ether	60	12	*<8.7*	*17.2*[J]		*21.54*[J]		10.6[J]
Total Trimethylbenzenes	480	96	**1,848**	**1,797**		**1,954**		**1,803**
Naphthalene	100	10	**328**	**320**		**345**		**341**
Isopropylbenzene			53.6	NA		NA		NA
n-Propylbenzene			187	NA		NA		NA
Field Measurements								
Temperature (°F)			49.33	46.44		44.18		49.4
Conductivity (ms/cm)			525	370		410		328.3
Dissolved Oxygen (mg/L)			0.32	0.67		1.52		1.24
pH			6.7	6.52		8.85		6.67
Redox Potential (mV)			-49.4	-47.7		-46.2		-102

Notes:
PAL = Preventive Action Limit
ES = Enforcement Standards
Exceeds Enforcement Standard **BOLD**
Exceeds Preventative Action Limit *Italic*
NA - Not Analyzed
< - Concentration less than listed detection limit
[J] - Estimated concentration above the adjusted method detection limit and below the reporting limit

Table 2.f
Groundwater Analytical Results Summary
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

			GB-6					
PARAMETER	**ES**	**PAL**	10/5/16	2/2/17	6/11/18	06/12/18	06/21/18	10/29/18
Metals (ug/L)								
Dissolved Lead	15	1.5	<4.3	<4.3		NA		NA
Detected VOC's (ug/L)								
Benzene	5	0.5	<0.50	<0.40	Carbon Injection Completed	< 0.31	SVE System Started	< 0.31
Ethylbenzene	700	140	<0.50	<0.39		< 0.49		< 0.49
Methyl-tert-Butyl Ether	60	12	<0.17	<0.48		< 0.33		< 0.33
Naphthalene	100	10	<2.5	<0.42		< 0.66		< 0.66
Toluene	800	160	<0.50	<0.39		< 0.32		< 0.32
Total Trimethylbenzenes	480	96	<1.0	<0.42		< 0.34		< 0.34
Total Xylenes	2,000	400	<1.5	<0.80		< 0.51		< 0.51
Field Measurements								
Temperature (°F)			49.44	45.29		45.15		49.4
Conductivity (ms/cm)			71	57		32		65
Dissolved Oxygen (mg/L)			3.32	2.46		3.18		2.48
pH			7.14	6.53		6.4		6.18
Redox Potential (mV)			48.7	96.5		234.4		70.2

Notes:
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ES = Enforcement Standards
Exceeds Enforcement Standard **BOLD**
Exceeds Preventative Action Limit *Italic*
NA - Not Analyzed
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Table 2.g
Groundwater Analytical Results Summary
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

GB-7							
PARAMETER	**ES**	**PAL**	2/6/17	6/11/18	06/12/18	06/21/18	10/29/18
Metals (ug/L)							
Dissolved Lead	15	1.5	<4.3		NA		NA
Detected VOC's (ug/L)							
Benzene	5	0.5	<0.50	Carbon Injection Completed	< 0.31	SVE System Started	< 0.31
Ethylbenzene	700	140	<0.50		< 0.49		< 0.49
Toluene	800	160	<0.50		< 0.32		< 0.32
Total Xylenes	2,000	400	<1.5		< 0.51		< 0.51
Methyl-tert-Butyl Ether	60	12	<0.17		< 0.33		< 0.33
Total Trimethylbenzenes	480	96	<1.0		< 0.34		< 0.34
Naphthalene	100	10	<2.5		< 0.66		< 0.66
Field Measurements							
Temperature (°F)			NA		46.38		46.3
Conductivity (ms/cm)			NA		78		54.4
Dissolved Oxygen (mg/L)			NA		3.36		2.06
pH			NA		5.91		5.96
Redox Potential (mV)			NA		122.9		115.5

Notes:
PAL = Preventive Action Limit
ES = Enforcement Standards
Exceeds Enforcement Standard — **BOLD**
Exceeds Preventative Action Limit — *Italic*
NA - Not Analyzed
< - Concentration less than listed detection limit
J - Estimated concentration above the adjusted method detection limit and below the reporting limit

Table 2.h
Groundwater Analytical Results Summary
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

GB-8							
PARAMETER	**ES**	**PAL**	2/6/17	6/11/18	06/12/18	06/21/18	10/29/18
Metals (ug/L)							
Dissolved Lead	15	1.5	*4.9*[J]		NA		NA
Detected VOC's (ug/L)							
Benzene	5	0.5	<0.50	Carbon Injection Completed	< 0.31	SVE System Started	< 0.31
Ethylbenzene	700	140	<0.50		< 0.49		< 0.49
Toluene	800	160	<0.50		< 0.32		< 0.32
Total Xylenes	2,000	400	<1.5		< 0.51		< 0.51
Methyl-tert-Butyl Ether	60	12	<0.17		< 0.33		< 0.33
Total Trimethylbenzenes	480	96	<1.0		< 0.34		< 0.34
Naphthalene	100	10	<2.5		< 0.66		< 0.66
Field Measurements							
Temperature (°F)			NA		46.34		46.1
Conductivity (ms/cm)			NA		103		137.9
Dissolved Oxygen (mg/L)			NA		1.95		0.64
pH			NA		6.88		6.23
Redox Potential (mV)			NA		79.7		5.1

Notes:
PAL = Preventive Action Limit
ES = Enforcement Standards
Exceeds Enforcement Standard — **BOLD**
Exceeds Preventative Action Limit — *Italic*
NA - Not Analyzed
< - Concentration less than listed detection limit
[J] - Estimated concentration above the adjusted method detection limit and below the reporting limit

Table 2.i
Groundwater Analytical Results Summary
Greater Bass Lake Storage
N9276 Mill Road, Summit Lake, WI 54485

Potable							
PARAMETER	**ES**	**PAL**	10/5/16	6/11/18	06/12/18	06/21/18	10/29/18
Detected VOC's (ug/L)							
Benzene	5	0.5	<0.50	Carbon Injection Completed	< 0.11	SVE System Started	Well Not Sampled
Ethylbenzene	700	140	<0.50		< 0.14		
Toluene	800	160	<0.50		< 0.17		
Total Xylenes	2,000	400	<1.5		< 0.24		
Methyl-tert-Butyl Ether	60	12	<0.17		< 0.17		
Total Trimethylbenzenes	480	96	<1.0		< 0.093		
Naphthalene	100	10	<2.5		< 0.42		

Notes:
PAL = Preventive Action Limit
ES = Enforcement Standards
Exceeds Enforcement Standard **BOLD**
Exceeds Preventative Action Limit *Italic*
NA - Not Analyzed
< - Concentration less than listed detection limit

REI
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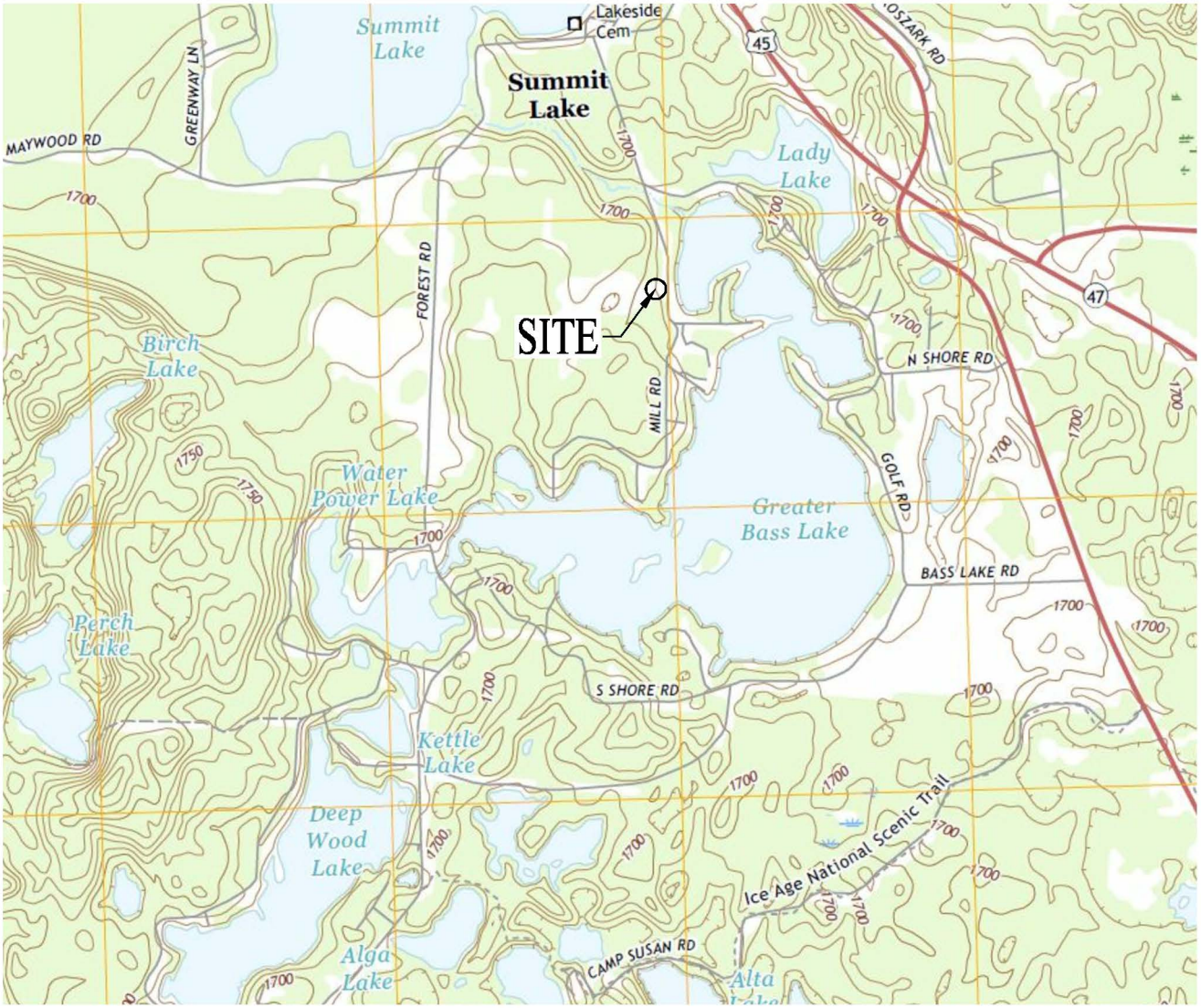
ENGINEERING, SURVEYING



SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2

1000 500 0 METERS 1000 2000

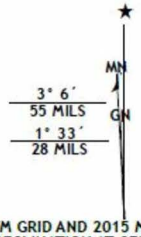
1 0.5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988



UTM GRID AND 2015 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

KEMPSTER, WI
2015

QUADRANGLE LOCATION

REI Engineering, INC.

GREATER BASS LAKE STORAGE
N9276 MILL ROAD
SUMMIT LAKE WISCONSIN

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	DRAWN BY:	DATE:
7083	TAW	3/7/2017

DRAWING FILE: P:\7000-7099\7083 - GREATER BASS LAKE STORAGE\DWG\7083-VICN.DWG LAYOUT: VICINITY PLOTTED: MAR 07, 2017 - 11:00AM PLOTTED BY: TODDW

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GB-8
GP1
GRASS
MW13
GP2
COT
GP3
MW14
GB-3
GB-7
GP4
HOUSE
B6
GP5
6'x12'
REMEDIAL
TRAILER
B5
GB-5
GP6
MW-17
SVE4
SVE1
POTABLE
WELL
GB-6
GB-1
B9
B4
B11
B10
B12
MILL ROAD
SVE3
SVE2
B3
B2
B18
B13
B17
B14
B1
GP7
B16
B21
B7
B19
B15
B20
GB-4
GB-2
B8
GP8
030-0148.002

LEGEND

0 40
SCALE: 1" = 40'

SOIL VAPOR EXTRACTION WELL LOCATION
MONITORING WELL LOCATION
SOIL BORING LOCATION
GEOPROBE BORING LOCATION
LIGHT POLE
LOCATION OF FORMER UST LOCATION
ABOVE GROUND REMEDIAL LINES
CHAINLINK FENCE
UNDERGROUND WATER (PRIVATE)
UNDERGROUND ELECTRIC (PRIVATE)
PROPERTY BOUNDARIES (APPROXIMATE)

N

REI Engineering, INC.

GREATER BASS LAKE STORAGE
N9276 MILL ROAD
SUMMIT LAKE, WISCONSIN

FIGURE 2: SITE MAP

PROJECT No.	PREPARED BY:	DATE:
7083	MCM	3/31/2019

DRAWING FILE: P:\7000-7099\7083 - GREATER BASS LAKE STORAGE\DWG\7083-SITE.DWG LAYOUT: SITE CLOSEUP PLOTTED: APR 22, 2019 - 3:16PM PLOTTED BY: ToddW

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MW6
030-1466
GRASS
MILL ROAD
PROPERTY LINE (TYP.)
CURRENT N9307 POTABLE WELL. (CASED TO 191')
030-027.002
MW7
MW3R MW2
NPWI
MW3
GRASS
GRASS
HOUSE
GRASS
GREATER BASS LAKE
MW11R
MW5RR
SEPTIC
MW5
MW11
MW1R
TMWI0
DOCK
MW5R
PZI
MW1RR
GAR
DWI
FORMER N9307 POTABLE WELL. (ABANDONED 1/1996)
MW9MW4R
MW16
MW10R
MW10
TMWII
DOCK
1671.58
GB-8
GRASS
FORMER N9299 POTABLE WELL. (ABANDONED 6/1994)
MW8
COTTAGE
MW13
MW12
DOCK
COTTAGE
MW15
1671.25
CURRENT N9295 POTABLE WELL. (CASED TO 140')
MW14
1671.12
GB-7
1671.00
GB-3
1670.93
HOUSE
1671.00
GB-5
GREATER BASS
CURRENT N9287 POTABLE WELL. (CASED TO 139')
E
E
W
E
6'x12' REMEDIAL TRAILER
1670.75
GB-6
1671.24
GB-1
1670.13
MW-17
MILL ROAD
POTABLE WELL
GB-4
1671.15
E
GB-2
1671.30
030-0148.002

NOTES:
1. GROUNDWATER ELEVATION DATA IS PRESENTED IN FEET MEAN SEA LEVEL.
2. GROUNDWATER CONTOUR MAP IS BASED ON ELEVATION DATA COLLECTED DURING THE OCTOBER 29, 2018 MONITORING EVENT.
3. CONTOUR INTERVAL IS 0.25 FEET.
4. GROUNDWATER FLOW DIRECTION IS NOT DISCERNABLE DUE TO APPARENT NEED TO RESURVEY SITE WELL NETWORK.

LEGEND

0 100
SCALE: 1" = 100'

N

MONITORING WELL LOCATION
LIGHT POLE
LOCATION OF FORMER UST LOCATION
W UNDERGROUND WATER (PRIVATE)
E UNDERGROUND ELECTRIC (PRIVATE)

REI Engineering, INC.

GREATER BASS LAKE STORAGE
N9276 MILL ROAD
SUMMIT LAKE, WISCONSIN

FIGURE 3 : GROUNDWATER CONTOUR MAP (10/29/2018)

PROJECT No.	PREPARED BY:	DATE:
7083	MCM	4/26/2019

DRAWING FILE: P:\7000-7099\7083 - GREATER BASS LAKE STORAGE\DWG\7083-GW-102918.DWG LAYOUT: GW PLOTTED: APR 29, 2019 - 9:10AM PLOTTED BY: TODDW

APPENDIX A

GROUNDWATER LABORATORY ANALYTICAL RESULTS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 26, 2018

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

RE: Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40170931001	**GB-1**	Water	06/11/18 18:00	06/15/18 08:50
40170931002	**GB-2**	Water	06/12/18 07:50	06/15/18 08:50
40170931003	**GB-3**	Water	06/12/18 10:00	06/15/18 08:50
40170931004	**GB-4**	Water	06/12/18 08:40	06/15/18 08:50
40170931005	**GB-5**	Water	06/12/18 09:05	06/15/18 08:50
40170931006	**GB-6**	Water	06/12/18 08:15	06/15/18 08:50
40170931007	**GB-7**	Water	06/12/18 10:20	06/15/18 08:50
40170931008	**GB-8**	Water	06/12/18 09:30	06/15/18 08:50
40170931009	**GB-POTABLE**	Water	06/12/18 10:45	06/15/18 08:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40170931001	**GB-1**	WI MOD GRO	ALD	10	PASI-G
40170931002	**GB-2**	WI MOD GRO	ALD	10	PASI-G
40170931003	**GB-3**	WI MOD GRO	ALD	10	PASI-G
40170931004	**GB-4**	WI MOD GRO	ALD	10	PASI-G
40170931005	**GB-5**	WI MOD GRO	ALD	10	PASI-G
40170931006	**GB-6**	WI MOD GRO	ALD	10	PASI-G
40170931007	**GB-7**	WI MOD GRO	ALD	10	PASI-G
40170931008	**GB-8**	WI MOD GRO	ALD	10	PASI-G
40170931009	**GB-POTABLE**	EPA 524.2	AEZ	62	PASI-M

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Sample: GB-1 **Lab ID: 40170931001** Collected: 06/11/18 18:00 Received: 06/15/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**52.5**	ug/L	10.2	3.1	10		06/19/18 23:41	71-43-2	
Ethylbenzene	**606**	ug/L	11.0	3.3	10		06/19/18 23:41	100-41-4	
Methyl-tert-butyl ether	**<3.2**	ug/L	10.7	3.2	10		06/19/18 23:41	1634-04-4	
Naphthalene	**285**	ug/L	16.8	5.1	10		06/19/18 23:41	91-20-3	
Toluene	**34.0**	ug/L	16.3	4.9	10		06/19/18 23:41	108-88-3	
1,2,4-Trimethylbenzene	**1280**	ug/L	11.4	3.4	10		06/19/18 23:41	95-63-6	
1,3,5-Trimethylbenzene	**475**	ug/L	10.9	3.3	10		06/19/18 23:41	108-67-8	
m&p-Xylene	**620**	ug/L	21.8	6.6	10		06/19/18 23:41	179601-23-1	
o-Xylene	**52.4**	ug/L	10.5	3.2	10		06/19/18 23:41	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		10		06/19/18 23:41	98-08-8	

Sample: GB-2 **Lab ID: 40170931002** Collected: 06/12/18 07:50 Received: 06/15/18 08:50 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		06/19/18 19:51	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/19/18 19:51	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		06/19/18 19:51	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		06/19/18 19:51	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		06/19/18 19:51	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		06/19/18 19:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/19/18 19:51	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		06/19/18 19:51	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		06/19/18 19:51	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/19/18 19:51	98-08-8	

Sample: GB-3 **Lab ID: 40170931003** Collected: 06/12/18 10:00 Received: 06/15/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**350**	ug/L	10.2	3.1	10		06/20/18 00:07	71-43-2	
Ethylbenzene	**411**	ug/L	11.0	3.3	10		06/20/18 00:07	100-41-4	
Methyl-tert-butyl ether	**<3.2**	ug/L	10.7	3.2	10		06/20/18 00:07	1634-04-4	
Naphthalene	**94.8**	ug/L	16.8	5.1	10		06/20/18 00:07	91-20-3	
Toluene	**93.4**	ug/L	16.3	4.9	10		06/20/18 00:07	108-88-3	
1,2,4-Trimethylbenzene	**384**	ug/L	11.4	3.4	10		06/20/18 00:07	95-63-6	
1,3,5-Trimethylbenzene	**133**	ug/L	10.9	3.3	10		06/20/18 00:07	108-67-8	
m&p-Xylene	**885**	ug/L	21.8	6.6	10		06/20/18 00:07	179601-23-1	
o-Xylene	**49.1**	ug/L	10.5	3.2	10		06/20/18 00:07	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Sample: GB-3 **Lab ID: 40170931003** Collected: 06/12/18 10:00 Received: 06/15/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		10		06/20/18 00:07	98-08-8	

Sample: GB-4 **Lab ID: 40170931004** Collected: 06/12/18 08:40 Received: 06/15/18 08:50 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		06/19/18 20:17	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/19/18 20:17	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		06/19/18 20:17	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		06/19/18 20:17	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		06/19/18 20:17	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		06/19/18 20:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/19/18 20:17	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		06/19/18 20:17	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		06/19/18 20:17	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		06/19/18 20:17	98-08-8	

Sample: GB-5 **Lab ID: 40170931005** Collected: 06/12/18 09:05 Received: 06/15/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**2060**	ug/L	51.0	15.3	50		06/19/18 22:50	71-43-2	
Ethylbenzene	**1940**	ug/L	55.0	16.4	50		06/19/18 22:50	100-41-4	
Methyl-tert-butyl ether	**21.5J**	ug/L	53.5	16.0	50		06/19/18 22:50	1634-04-4	
Naphthalene	**345**	ug/L	84.0	25.3	50		06/19/18 22:50	91-20-3	
Toluene	**3590**	ug/L	81.5	24.4	50		06/19/18 22:50	108-88-3	
1,2,4-Trimethylbenzene	**1530**	ug/L	57.0	17.1	50		06/19/18 22:50	95-63-6	
1,3,5-Trimethylbenzene	**424**	ug/L	54.5	16.4	50		06/19/18 22:50	108-67-8	
m&p-Xylene	**5390**	ug/L	109	32.8	50		06/19/18 22:50	179601-23-1	
o-Xylene	**1910**	ug/L	52.5	15.8	50		06/19/18 22:50	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		50		06/19/18 22:50	98-08-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Sample: GB-6 **Lab ID: 40170931006** Collected: 06/12/18 08:15 Received: 06/15/18 08:50 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		06/19/18 20:42	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/19/18 20:42	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		06/19/18 20:42	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		06/19/18 20:42	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		06/19/18 20:42	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		06/19/18 20:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/19/18 20:42	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		06/19/18 20:42	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		06/19/18 20:42	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		06/19/18 20:42	98-08-8	

Sample: GB-7 **Lab ID: 40170931007** Collected: 06/12/18 10:20 Received: 06/15/18 08:50 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		06/20/18 09:51	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/20/18 09:51	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		06/20/18 09:51	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		06/20/18 09:51	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		06/20/18 09:51	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		06/20/18 09:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/20/18 09:51	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		06/20/18 09:51	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		06/20/18 09:51	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		06/20/18 09:51	98-08-8	

Sample: GB-8 **Lab ID: 40170931008** Collected: 06/12/18 09:30 Received: 06/15/18 08:50 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		06/20/18 01:49	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/20/18 01:49	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		06/20/18 01:49	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		06/20/18 01:49	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		06/20/18 01:49	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		06/20/18 01:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		06/20/18 01:49	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		06/20/18 01:49	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		06/20/18 01:49	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Sample: GB-8 **Lab ID: 40170931008** Collected: 06/12/18 09:30 Received: 06/15/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		06/20/18 01:49	98-08-8	

Sample: GB-POTABLE **Lab ID: 40170931009** Collected: 06/12/18 10:45 Received: 06/15/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.11**	ug/L	0.37	0.11	1		06/25/18 18:53	71-43-2	
Bromobenzene	**<0.12**	ug/L	0.40	0.12	1		06/25/18 18:53	108-86-1	
Bromochloromethane	**<0.38**	ug/L	1.3	0.38	1		06/25/18 18:53	74-97-5	
Bromodichloromethane	**<0.14**	ug/L	0.48	0.14	1		06/25/18 18:53	75-27-4	
Bromoform	**<1.0**	ug/L	3.5	1.0	1		06/25/18 18:53	75-25-2	
Bromomethane	**<1.1**	ug/L	3.8	1.1	1		06/25/18 18:53	74-83-9	
n-Butylbenzene	**<0.12**	ug/L	0.40	0.12	1		06/25/18 18:53	104-51-8	
sec-Butylbenzene	**<0.12**	ug/L	0.41	0.12	1		06/25/18 18:53	135-98-8	
tert-Butylbenzene	**<0.15**	ug/L	0.49	0.15	1		06/25/18 18:53	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	0.57	0.17	1		06/25/18 18:53	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.38	0.11	1		06/25/18 18:53	108-90-7	
Chloroethane	**<0.32**	ug/L	1.1	0.32	1		06/25/18 18:53	75-00-3	
Chloroform	**<0.46**	ug/L	1.5	0.46	1		06/25/18 18:53	67-66-3	
Chloromethane	**<1.1**	ug/L	3.6	1.1	1		06/25/18 18:53	74-87-3	
2-Chlorotoluene	**<0.078**	ug/L	0.26	0.078	1		06/25/18 18:53	95-49-8	
4-Chlorotoluene	**<0.089**	ug/L	0.30	0.089	1		06/25/18 18:53	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	3.4	1.0	1		06/25/18 18:53	96-12-8	
Dibromochloromethane	**<0.13**	ug/L	0.45	0.13	1		06/25/18 18:53	124-48-1	
1,2-Dibromoethane (EDB)	**<0.14**	ug/L	0.46	0.14	1		06/25/18 18:53	106-93-4	
Dibromomethane	**<0.50**	ug/L	1.7	0.50	1		06/25/18 18:53	74-95-3	
1,2-Dichlorobenzene	**<0.077**	ug/L	0.26	0.077	1		06/25/18 18:53	95-50-1	
1,3-Dichlorobenzene	**<0.074**	ug/L	0.25	0.074	1		06/25/18 18:53	541-73-1	
1,4-Dichlorobenzene	**<0.073**	ug/L	0.24	0.073	1		06/25/18 18:53	106-46-7	
Dichlorodifluoromethane	**<0.31**	ug/L	1.0	0.31	1		06/25/18 18:53	75-71-8	
1,1-Dichloroethane	**<0.14**	ug/L	0.48	0.14	1		06/25/18 18:53	75-34-3	
1,2-Dichloroethane	**<0.11**	ug/L	0.37	0.11	1		06/25/18 18:53	107-06-2	
1,1-Dichloroethene	**<0.18**	ug/L	0.60	0.18	1		06/25/18 18:53	75-35-4	
cis-1,2-Dichloroethene	**<0.073**	ug/L	0.24	0.073	1		06/25/18 18:53	156-59-2	
trans-1,2-Dichloroethene	**<0.21**	ug/L	0.70	0.21	1		06/25/18 18:53	156-60-5	
1,2-Dichloropropane	**<0.20**	ug/L	0.68	0.20	1		06/25/18 18:53	78-87-5	
1,3-Dichloropropane	**<0.093**	ug/L	0.31	0.093	1		06/25/18 18:53	142-28-9	
2,2-Dichloropropane	**<0.32**	ug/L	1.1	0.32	1		06/25/18 18:53	594-20-7	
1,1-Dichloropropene	**<0.16**	ug/L	0.55	0.16	1		06/25/18 18:53	563-58-6	
cis-1,3-Dichloropropene	**<0.12**	ug/L	0.39	0.12	1		06/25/18 18:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.11**	ug/L	0.36	0.11	1		06/25/18 18:53	10061-02-6	
Ethylbenzene	**<0.14**	ug/L	0.45	0.14	1		06/25/18 18:53	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Sample: GB-POTABLE **Lab ID: 40170931009** Collected: 06/12/18 10:45 Received: 06/15/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Hexachloro-1,3-butadiene	**<0.31**	ug/L	1.0	0.31	1		06/25/18 18:53	87-68-3	
Isopropylbenzene (Cumene)	**<0.095**	ug/L	0.32	0.095	1		06/25/18 18:53	98-82-8	
p-Isopropyltoluene	**<0.088**	ug/L	0.29	0.088	1		06/25/18 18:53	99-87-6	
Methylene Chloride	**<1.2**	ug/L	3.9	1.2	1		06/25/18 18:53	75-09-2	
Methyl-tert-butyl ether	**<0.097**	ug/L	0.32	0.097	1		06/25/18 18:53	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.4	0.42	1		06/25/18 18:53	91-20-3	
n-Propylbenzene	**<0.11**	ug/L	0.36	0.11	1		06/25/18 18:53	103-65-1	
Styrene	**<0.10**	ug/L	0.35	0.10	1		06/25/18 18:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.13**	ug/L	0.44	0.13	1		06/25/18 18:53	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.19**	ug/L	0.63	0.19	1		06/25/18 18:53	79-34-5	
Tetrachloroethene	**<0.12**	ug/L	0.38	0.12	1		06/25/18 18:53	127-18-4	
Toluene	**<0.17**	ug/L	0.57	0.17	1		06/25/18 18:53	108-88-3	
1,2,3-Trichlorobenzene	**0.14J**	ug/L	0.26	0.078	1		06/25/18 18:53	87-61-6	B
1,2,4-Trichlorobenzene	**<0.11**	ug/L	0.38	0.11	1		06/25/18 18:53	120-82-1	
1,1,1-Trichloroethane	**<0.13**	ug/L	0.44	0.13	1		06/25/18 18:53	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/L	0.41	0.12	1		06/25/18 18:53	79-00-5	
Trichloroethene	**<0.11**	ug/L	0.36	0.11	1		06/25/18 18:53	79-01-6	
Trichlorofluoromethane	**<0.080**	ug/L	0.27	0.080	1		06/25/18 18:53	75-69-4	
1,2,3-Trichloropropane	**<0.31**	ug/L	1.0	0.31	1		06/25/18 18:53	96-18-4	
1,2,4-Trimethylbenzene	**<0.085**	ug/L	0.28	0.085	1		06/25/18 18:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.093**	ug/L	0.31	0.093	1		06/25/18 18:53	108-67-8	
Vinyl chloride	**<0.074**	ug/L	0.25	0.074	1		06/25/18 18:53	75-01-4	
Xylene (Total)	**<0.24**	ug/L	0.81	0.24	1		06/25/18 18:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	75-125		1		06/25/18 18:53	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		06/25/18 18:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%.	75-125		1		06/25/18 18:53	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

QC Batch: 292186 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40170931001, 40170931002, 40170931003, 40170931004, 40170931005, 40170931006, 40170931007, 40170931008

METHOD BLANK: 1708513 Matrix: Water
Associated Lab Samples: 40170931001, 40170931002, 40170931003, 40170931004, 40170931005, 40170931006, 40170931007, 40170931008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	06/19/18 16:01	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	06/19/18 16:01	
Benzene	ug/L	<0.31	1.0	06/19/18 16:01	
Ethylbenzene	ug/L	<0.33	1.1	06/19/18 16:01	
m&p-Xylene	ug/L	<0.66	2.2	06/19/18 16:01	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	06/19/18 16:01	
Naphthalene	ug/L	<0.51	1.7	06/19/18 16:01	
o-Xylene	ug/L	<0.32	1.0	06/19/18 16:01	
Toluene	ug/L	<0.49	1.6	06/19/18 16:01	
a,a,a-Trifluorotoluene (S)	%	102	80-120	06/19/18 16:01	

LABORATORY CONTROL SAMPLE & LCSD: 1708514 1708515

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.0	22.4	105	112	80-120	6	20	
1,3,5-Trimethylbenzene	ug/L	20	20.8	22.0	104	110	80-120	6	20	
Benzene	ug/L	20	20.6	21.7	103	109	80-120	5	20	
Ethylbenzene	ug/L	20	21.1	22.2	105	111	80-120	5	20	
m&p-Xylene	ug/L	40	41.7	44.0	104	110	80-120	5	20	
Methyl-tert-butyl ether	ug/L	20	20.4	20.6	102	103	80-120	1	20	
Naphthalene	ug/L	20	20.1	20.4	100	102	80-120	2	20	
o-Xylene	ug/L	20	20.7	21.9	103	110	80-120	6	20	
Toluene	ug/L	20	21.0	22.1	105	110	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				103	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1709026 1709027

Parameter	Units	40170928013 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	20.0	23.0	100	115	51-160	14	20	
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	19.7	22.6	99	113	56-146	14	20	
Benzene	ug/L	<0.31	20	20	19.4	22.1	97	110	71-137	13	20	
Ethylbenzene	ug/L	<0.33	20	20	20.0	22.9	100	115	71-141	14	20	
m&p-Xylene	ug/L	<0.66	40	40	39.7	45.5	99	114	66-141	14	20	
Methyl-tert-butyl ether	ug/L	<0.32	20	20	18.3	20.4	92	102	80-120	11	20	
Naphthalene	ug/L	<0.51	20	20	18.0	20.5	90	102	67-138	13	20	
o-Xylene	ug/L	<0.32	20	20	19.5	22.4	98	112	75-133	14	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1709026 1709027

Parameter	Units	40170928013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.49	20	20	19.8	22.6	99	113	76-134	13	20	
a,a,a-Trifluorotoluene (S)	%						102	102	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

QC Batch: 546818
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Associated Lab Samples: 40170931009

METHOD BLANK: 2973328
Matrix: Water
Associated Lab Samples: 40170931009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.13	0.44	06/25/18 18:06	
1,1,1-Trichloroethane	ug/L	<0.13	0.44	06/25/18 18:06	
1,1,2,2-Tetrachloroethane	ug/L	<0.19	0.63	06/25/18 18:06	
1,1,2-Trichloroethane	ug/L	<0.12	0.41	06/25/18 18:06	
1,1-Dichloroethane	ug/L	<0.14	0.48	06/25/18 18:06	
1,1-Dichloroethene	ug/L	<0.18	0.60	06/25/18 18:06	
1,1-Dichloropropene	ug/L	<0.16	0.55	06/25/18 18:06	
1,2,3-Trichlorobenzene	ug/L	0.29	0.26	06/25/18 18:06	
1,2,3-Trichloropropane	ug/L	<0.31	1.0	06/25/18 18:06	
1,2,4-Trichlorobenzene	ug/L	0.16J	0.38	06/25/18 18:06	MN
1,2,4-Trimethylbenzene	ug/L	<0.085	0.28	06/25/18 18:06	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	3.4	06/25/18 18:06	
1,2-Dibromoethane (EDB)	ug/L	<0.14	0.46	06/25/18 18:06	
1,2-Dichlorobenzene	ug/L	<0.077	0.26	06/25/18 18:06	
1,2-Dichloroethane	ug/L	<0.11	0.37	06/25/18 18:06	
1,2-Dichloropropane	ug/L	<0.20	0.68	06/25/18 18:06	
1,3,5-Trimethylbenzene	ug/L	<0.093	0.31	06/25/18 18:06	
1,3-Dichlorobenzene	ug/L	<0.074	0.25	06/25/18 18:06	
1,3-Dichloropropane	ug/L	<0.093	0.31	06/25/18 18:06	
1,4-Dichlorobenzene	ug/L	<0.073	0.24	06/25/18 18:06	
2,2-Dichloropropane	ug/L	<0.32	1.1	06/25/18 18:06	
2-Chlorotoluene	ug/L	<0.078	0.26	06/25/18 18:06	
4-Chlorotoluene	ug/L	<0.089	0.30	06/25/18 18:06	
Benzene	ug/L	<0.11	0.37	06/25/18 18:06	
Bromobenzene	ug/L	<0.12	0.40	06/25/18 18:06	
Bromochloromethane	ug/L	<0.38	1.3	06/25/18 18:06	
Bromodichloromethane	ug/L	<0.14	0.48	06/25/18 18:06	MN
Bromoform	ug/L	<1.0	3.5	06/25/18 18:06	
Bromomethane	ug/L	<1.1	3.8	06/25/18 18:06	
Carbon tetrachloride	ug/L	<0.17	0.57	06/25/18 18:06	
Chlorobenzene	ug/L	<0.11	0.38	06/25/18 18:06	
Chloroethane	ug/L	<0.32	1.1	06/25/18 18:06	
Chloroform	ug/L	<0.46	1.5	06/25/18 18:06	
Chloromethane	ug/L	<1.1	3.6	06/25/18 18:06	
cis-1,2-Dichloroethene	ug/L	<0.073	0.24	06/25/18 18:06	
cis-1,3-Dichloropropene	ug/L	<0.12	0.39	06/25/18 18:06	
Dibromochloromethane	ug/L	<0.13	0.45	06/25/18 18:06	
Dibromomethane	ug/L	<0.50	1.7	06/25/18 18:06	
Dichlorodifluoromethane	ug/L	<0.31	1.0	06/25/18 18:06	
Ethylbenzene	ug/L	<0.14	0.45	06/25/18 18:06	
Hexachloro-1,3-butadiene	ug/L	<0.31	1.0	06/25/18 18:06	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

METHOD BLANK: 2973328 Matrix: Water
Associated Lab Samples: 40170931009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.095	0.32	06/25/18 18:06	
Methyl-tert-butyl ether	ug/L	<0.097	0.32	06/25/18 18:06	
Methylene Chloride	ug/L	<1.2	3.9	06/25/18 18:06	
n-Butylbenzene	ug/L	<0.12	0.40	06/25/18 18:06	MN
n-Propylbenzene	ug/L	<0.11	0.36	06/25/18 18:06	
Naphthalene	ug/L	0.48J	1.4	06/25/18 18:06	
p-Isopropyltoluene	ug/L	<0.088	0.29	06/25/18 18:06	
sec-Butylbenzene	ug/L	<0.12	0.41	06/25/18 18:06	
Styrene	ug/L	<0.10	0.35	06/25/18 18:06	
tert-Butylbenzene	ug/L	<0.15	0.49	06/25/18 18:06	
Tetrachloroethene	ug/L	<0.12	0.38	06/25/18 18:06	
Toluene	ug/L	<0.17	0.57	06/25/18 18:06	
trans-1,2-Dichloroethene	ug/L	<0.21	0.70	06/25/18 18:06	
trans-1,3-Dichloropropene	ug/L	<0.11	0.36	06/25/18 18:06	MN
Trichloroethene	ug/L	<0.11	0.36	06/25/18 18:06	
Trichlorofluoromethane	ug/L	<0.080	0.27	06/25/18 18:06	
Vinyl chloride	ug/L	<0.074	0.25	06/25/18 18:06	
Xylene (Total)	ug/L	<0.24	0.81	06/25/18 18:06	
1,2-Dichloroethane-d4 (S)	%.	98	75-125	06/25/18 18:06	
4-Bromofluorobenzene (S)	%.	100	75-125	06/25/18 18:06	
Toluene-d8 (S)	%.	101	75-125	06/25/18 18:06	

LABORATORY CONTROL SAMPLE: 2973329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.7	108	70-130	
1,1,1-Trichloroethane	ug/L	20	22.5	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	70-130	
1,1,2-Trichloroethane	ug/L	20	22.6	113	70-130	
1,1-Dichloroethane	ug/L	20	21.1	105	70-130	
1,1-Dichloroethene	ug/L	20	23.6	118	70-130	
1,1-Dichloropropene	ug/L	20	21.7	109	70-130	
1,2,3-Trichlorobenzene	ug/L	20	22.7	113	70-130	
1,2,3-Trichloropropane	ug/L	20	21.0	105	70-130	
1,2,4-Trichlorobenzene	ug/L	20	21.6	108	70-130	
1,2,4-Trimethylbenzene	ug/L	20	22.7	114	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.3	117	70-130	
1,2-Dibromoethane (EDB)	ug/L	20	22.6	113	70-130	
1,2-Dichlorobenzene	ug/L	20	21.8	109	70-130	
1,2-Dichloroethane	ug/L	20	19.0	95	70-130	
1,2-Dichloropropane	ug/L	20	27.7	139	70-130	L3
1,3,5-Trimethylbenzene	ug/L	20	22.2	111	70-130	
1,3-Dichlorobenzene	ug/L	20	21.6	108	70-130	
1,3-Dichloropropane	ug/L	20	22.9	114	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

LABORATORY CONTROL SAMPLE: 2973329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	20	20.2	101	70-130	
2,2-Dichloropropane	ug/L	20	21.1	106	70-130	
2-Chlorotoluene	ug/L	20	20.8	104	70-130	
4-Chlorotoluene	ug/L	20	21.7	109	70-130	
Benzene	ug/L	20	21.4	107	70-130	
Bromobenzene	ug/L	20	21.9	109	70-130	
Bromochloromethane	ug/L	20	22.1	110	70-130	
Bromodichloromethane	ug/L	20	24.7	123	70-130	
Bromoform	ug/L	20	19.8	99	70-130	
Bromomethane	ug/L	20	27.7	139	70-130	L3
Carbon tetrachloride	ug/L	20	22.6	113	70-130	
Chlorobenzene	ug/L	20	21.0	105	70-130	
Chloroethane	ug/L	20	21.3	106	70-130	
Chloroform	ug/L	20	19.9	99	70-130	
Chloromethane	ug/L	20	19.5	98	70-130	
cis-1,2-Dichloroethene	ug/L	20	22.5	113	70-130	
cis-1,3-Dichloropropene	ug/L	20	26.6	133	70-130	L3
Dibromochloromethane	ug/L	20	23.1	116	70-130	
Dibromomethane	ug/L	20	25.9	129	70-130	
Dichlorodifluoromethane	ug/L	20	26.3	132	70-130	L3
Ethylbenzene	ug/L	20	22.1	110	70-130	
Hexachloro-1,3-butadiene	ug/L	20	20.3	102	70-130	
Isopropylbenzene (Cumene)	ug/L	20	22.7	114	70-130	
Methyl-tert-butyl ether	ug/L	20	22.7	113	70-130	
Methylene Chloride	ug/L	20	19.1	96	70-130	
n-Butylbenzene	ug/L	20	18.9	95	70-130	
n-Propylbenzene	ug/L	20	21.6	108	70-130	
Naphthalene	ug/L	20	24.4	122	70-130	
p-Isopropyltoluene	ug/L	20	21.5	107	70-130	
sec-Butylbenzene	ug/L	20	21.4	107	70-130	
Styrene	ug/L	20	23.5	117	70-130	
tert-Butylbenzene	ug/L	20	22.2	111	70-130	
Tetrachloroethene	ug/L	20	22.6	113	70-130	
Toluene	ug/L	20	20.2	101	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.5	108	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.2	101	70-130	
Trichloroethene	ug/L	20	22.2	111	70-130	
Trichlorofluoromethane	ug/L	20	22.5	113	70-130	
Vinyl chloride	ug/L	20	24.2	121	70-130	
Xylene (Total)	ug/L	60	67.9	113	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	75-125	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			101	75-125	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2974300 2974301

Parameter	Units	40170931010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.13	20	20	21.2	19.1	106	96	70-130	10	20	
1,1,1-Trichloroethane	ug/L	<0.13	20	20	23.5	22.0	117	110	70-130	6	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.19	20	20	20.6	20.3	103	102	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.12	20	20	20.8	19.5	104	98	70-130	6	20	
1,1-Dichloroethane	ug/L	<0.14	20	20	21.4	19.5	107	98	70-130	9	20	
1,1-Dichloroethene	ug/L	<0.18	20	20	25.9	22.3	130	111	70-130	15	20	
1,1-Dichloropropene	ug/L	<0.16	20	20	23.4	20.6	117	103	70-130	13	20	
1,2,3-Trichlorobenzene	ug/L	<0.078	20	20	25.7	23.5	129	118	70-130	9	20	
1,2,3-Trichloropropane	ug/L	<0.31	20	20	20.0	18.9	100	95	70-130	6	20	
1,2,4-Trichlorobenzene	ug/L	<0.11	20	20	24.2	21.6	121	108	70-130	11	20	
1,2,4-Trimethylbenzene	ug/L	<0.085	20	20	22.0	21.5	110	108	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	58.9	53.3	118	107	70-130	10	20	
1,2-Dibromoethane (EDB)	ug/L	<0.14	20	20	21.0	19.6	105	98	70-130	7	20	
1,2-Dichlorobenzene	ug/L	<0.077	20	20	23.0	20.1	115	101	70-130	13	20	
1,2-Dichloroethane	ug/L	1.4	20	20	20.3	17.7	94	81	70-130	14	20	
1,2-Dichloropropane	ug/L	<0.20	20	20	21.9	18.7	109	93	70-130	16	20	
1,3,5-Trimethylbenzene	ug/L	<0.093	20	20	21.6	21.0	108	105	70-130	3	20	
1,3-Dichlorobenzene	ug/L	<0.074	20	20	22.2	20.2	111	101	70-130	9	20	
1,3-Dichloropropane	ug/L	<0.093	20	20	20.6	20.3	103	101	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.073	20	20	21.1	19.3	105	96	70-130	9	20	
2,2-Dichloropropane	ug/L	<0.32	20	20	23.8	22.1	119	111	70-130	7	20	
2-Chlorotoluene	ug/L	<0.078	20	20	19.3	19.6	96	98	70-130	2	20	
4-Chlorotoluene	ug/L	<0.089	20	20	20.5	20.0	102	100	70-130	2	20	
Benzene	ug/L	<0.11	20	20	22.0	19.1	110	95	70-130	14	20	
Bromobenzene	ug/L	<0.12	20	20	20.7	19.9	103	100	70-130	4	20	
Bromochloromethane	ug/L	<0.38	20	20	21.8	20.8	109	104	70-130	5	20	
Bromodichloromethane	ug/L	<0.14	20	20	19.8	17.0	99	85	70-130	15	20	
Bromoform	ug/L	<1.0	20	20	19.4	17.1	97	86	70-130	12	20	
Bromomethane	ug/L	<1.1	20	20	26.2	25.5	131	128	70-130	3	20	M0
Carbon tetrachloride	ug/L	<0.17	20	20	23.1	22.4	115	112	70-130	3	20	
Chlorobenzene	ug/L	<0.11	20	20	20.5	18.6	102	93	70-130	10	20	
Chloroethane	ug/L	<0.32	20	20	20.3	20.2	101	101	70-130	0	20	
Chloroform	ug/L	<0.46	20	20	19.7	18.3	99	91	70-130	8	20	
Chloromethane	ug/L	<1.1	20	20	19.1	18.6	95	93	70-130	3	20	
cis-1,2-Dichloroethene	ug/L	<0.073	20	20	23.3	21.4	116	107	70-130	8	20	
cis-1,3-Dichloropropene	ug/L	<0.12	20	20	20.4	17.9	102	89	70-130	13	20	
Dibromochloromethane	ug/L	<0.13	20	20	21.4	20.1	107	100	70-130	7	20	
Dibromomethane	ug/L	<0.50	20	20	21.5	17.5	108	88	70-130	20	20	
Dichlorodifluoromethane	ug/L	<0.31	20	20	25.8	25.1	129	126	70-130	3	20	
Ethylbenzene	ug/L	<0.14	20	20	21.2	20.0	106	100	70-130	6	20	
Hexachloro-1,3-butadiene	ug/L	<0.31	20	20	25.9	22.7	129	114	70-130	13	20	
Isopropylbenzene (Cumene)	ug/L	<0.095	20	20	22.7	21.0	113	105	70-130	8	20	
Methyl-tert-butyl ether	ug/L	<0.097	20	20	22.8	20.8	114	104	70-130	9	20	
Methylene Chloride	ug/L	<1.2	20	20	19.3	17.3	97	86	70-130	11	20	
n-Butylbenzene	ug/L	<0.12	20	20	20.9	19.8	105	99	70-130	6	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2974300 2974301

Parameter	Units	40170931010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
n-Propylbenzene	ug/L	<0.11	20	20	20.7	20.4	104	102	70-130	2	20	
Naphthalene	ug/L	<0.42	20	20	27.0	24.5	135	122	70-130	10	20	M1
p-Isopropyltoluene	ug/L	<0.088	20	20	22.6	21.9	113	109	70-130	3	20	
sec-Butylbenzene	ug/L	<0.12	20	20	22.5	21.4	112	107	70-130	5	20	
Styrene	ug/L	<0.10	20	20	22.6	20.7	113	103	70-130	9	20	
tert-Butylbenzene	ug/L	<0.15	20	20	22.0	21.2	110	106	70-130	4	20	
Tetrachloroethene	ug/L	<0.12	20	20	22.9	20.9	115	105	70-130	9	20	
Toluene	ug/L	<0.17	20	20	18.8	18.1	94	90	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	<0.21	20	20	23.1	20.9	115	104	70-130	10	20	
trans-1,3-Dichloropropene	ug/L	<0.11	20	20	18.8	17.7	94	89	70-130	6	20	
Trichloroethene	ug/L	<0.11	20	20	23.2	16.2	116	81	70-130	36	20	R1
Trichlorofluoromethane	ug/L	<0.080	20	20	22.0	21.1	110	106	70-130	4	20	
Vinyl chloride	ug/L	<0.074	20	20	23.4	23.0	117	115	70-130	2	20	
Xylene (Total)	ug/L	<0.24	60	60	66.2	62.0	110	103	70-130	7	20	
1,2-Dichloroethane-d4 (S)	%.						103	99	75-125			
4-Bromofluorobenzene (S)	%.						91	101	75-125			
Toluene-d8 (S)	%.						97	100	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7083 AXUC GREATER BASS LAKE ST
Pace Project No.: 40170931

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40170931001	**GB-1**	WI MOD GRO	292186		
40170931002	**GB-2**	WI MOD GRO	292186		
40170931003	**GB-3**	WI MOD GRO	292186		
40170931004	**GB-4**	WI MOD GRO	292186		
40170931005	**GB-5**	WI MOD GRO	292186		
40170931006	**GB-6**	WI MOD GRO	292186		
40170931007	**GB-7**	WI MOD GRO	292186		
40170931008	**GB-8**	WI MOD GRO	292186		
40170931009	**GB-POTABLE**	EPA 524.2	546818		

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

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40170931

Pace Analytical®
www.pacelabs.com

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

(Please Print Clearly)	
Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Dave Larsen
Phone:	(715) 675-9784
Project Number:	7083 AKUC
Project Name:	Greater Bass Lake Storage
Project State:	WI
Sampled By (Print):	Jed Kosch
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Dave Larsen
Mail To Company:	REI
Mail To Address:	Dlarsen@reiengineering.com
Invoice To Contact:	SAME
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B	PVOC+N			
					N	J	DW VOCs (524.2)			
001	GrB-1	6/11/18	6:00pm	GW						
002	GrB-2	6/12/18	7:50							
003	GrB-3		10:00							
004	GrB-4		8:40							
005	GrB-5		9:05							
006	GrB-6		8:15							
007	GrB-7		10:20							
008	GrB-8		9:30							
009	GrB-Potable		10:45	DW			X			

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	6/14/18 1:30		
Weltco	6/15/18 0850	ABEMS pace	6/15/18 0850

PACE Project No. 40170931

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / Not Present — Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: RBR

Project # 40170931

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:

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	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	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		2															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009															3												1						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:	

Pace Analytical™ 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#: 40170931

40170931

Client Name: RET

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

Tracking #: 174704-1

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: ROT /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: 6/15/18
Initials: RS

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. 009 - 10 "Bass pot", no date, 2 vials unlabeled RS 6/15/18
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑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: 6-15-18

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 06, 2018

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

RE: Project: 7083 GREATER BASS
Pace Project No.: 40178769

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on November 01, 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

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 7083 GREATER BASS
Pace Project No.: 40178769

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 7083 GREATER BASS
Pace Project No.: 40178769

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178769001	**GB1**	Water	10/29/18 13:11	11/01/18 09:00
40178769002	**GB2**	Water	10/29/18 12:52	11/01/18 09:00
40178769003	**GB3**	Water	10/29/18 14:56	11/01/18 09:00
40178769004	**GB4**	Water	10/29/18 13:30	11/01/18 09:00
40178769005	**GB5**	Water	10/29/18 13:40	11/01/18 09:00
40178769006	**GB6**	Water	10/29/18 14:02	11/01/18 09:00
40178769007	**GB7**	Water	10/29/18 14:20	11/01/18 09:00
40178769008	**GB8**	Water	10/29/18 15:12	11/01/18 09:00

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SAMPLE ANALYTE COUNT

Project: 7083 GREATER BASS
Pace Project No.: 40178769

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40178769001	**GB1**	WI MOD GRO	ALD	10
40178769002	**GB2**	WI MOD GRO	ALD	10
40178769003	**GB3**	WI MOD GRO	ALD	10
40178769004	**GB4**	WI MOD GRO	ALD	10
40178769005	**GB5**	WI MOD GRO	ALD	10
40178769006	**GB6**	WI MOD GRO	ALD	10
40178769007	**GB7**	WI MOD GRO	ALD	10
40178769008	**GB8**	WI MOD GRO	ALD	10

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ANALYTICAL RESULTS

Project: 7083 GREATER BASS
Pace Project No.: 40178769

Sample: GB1 **Lab ID: 40178769001** Collected: 10/29/18 13:11 Received: 11/01/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**9.1**	ug/L	5.1	1.5	5		11/06/18 08:18	71-43-2	
Ethylbenzene	**175**	ug/L	5.5	1.6	5		11/06/18 08:18	100-41-4	
Methyl-tert-butyl ether	**<1.6**	ug/L	5.4	1.6	5		11/06/18 08:18	1634-04-4	
Naphthalene	**81.3**	ug/L	8.4	2.5	5		11/06/18 08:18	91-20-3	
Toluene	**3.1J**	ug/L	8.2	2.4	5		11/06/18 08:18	108-88-3	
1,2,4-Trimethylbenzene	**377**	ug/L	5.7	1.7	5		11/06/18 08:18	95-63-6	
1,3,5-Trimethylbenzene	**180**	ug/L	5.4	1.6	5		11/06/18 08:18	108-67-8	
m&p-Xylene	**179**	ug/L	10.9	3.3	5		11/06/18 08:18	179601-23-1	
o-Xylene	**4.2J**	ug/L	5.2	1.6	5		11/06/18 08:18	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		5		11/06/18 08:18	98-08-8	

Sample: GB2 **Lab ID: 40178769002** Collected: 10/29/18 12:52 Received: 11/01/18 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		11/05/18 10:47	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 10:47	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		11/05/18 10:47	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		11/05/18 10:47	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		11/05/18 10:47	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		11/05/18 10:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 10:47	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		11/05/18 10:47	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		11/05/18 10:47	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		11/05/18 10:47	98-08-8	

Sample: GB3 **Lab ID: 40178769003** Collected: 10/29/18 14:56 Received: 11/01/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**103**	ug/L	2.0	0.61	2		11/05/18 15:54	71-43-2	
Ethylbenzene	**176**	ug/L	2.2	0.66	2		11/05/18 15:54	100-41-4	
Methyl-tert-butyl ether	**1.4J**	ug/L	2.1	0.64	2		11/05/18 15:54	1634-04-4	
Naphthalene	**57.7**	ug/L	3.4	1.0	2		11/05/18 15:54	91-20-3	
Toluene	**49.6**	ug/L	3.3	0.98	2		11/05/18 15:54	108-88-3	
1,2,4-Trimethylbenzene	**245**	ug/L	2.3	0.68	2		11/05/18 15:54	95-63-6	
1,3,5-Trimethylbenzene	**84.6**	ug/L	2.2	0.66	2		11/05/18 15:54	108-67-8	
m&p-Xylene	**409**	ug/L	4.4	1.3	2		11/05/18 15:54	179601-23-1	
o-Xylene	**15.0**	ug/L	2.1	0.63	2		11/05/18 15:54	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 7083 GREATER BASS
Pace Project No.: 40178769

Sample: GB3 **Lab ID: 40178769003** Collected: 10/29/18 14:56 Received: 11/01/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		2		11/05/18 15:54	98-08-8	

Sample: GB4 **Lab ID: 40178769004** Collected: 10/29/18 13:30 Received: 11/01/18 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		11/05/18 11:13	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 11:13	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		11/05/18 11:13	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		11/05/18 11:13	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		11/05/18 11:13	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		11/05/18 11:13	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 11:13	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		11/05/18 11:13	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		11/05/18 11:13	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		11/05/18 11:13	98-08-8	

Sample: GB5 **Lab ID: 40178769005** Collected: 10/29/18 13:40 Received: 11/01/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**572**	ug/L	20.4	6.1	20		11/05/18 15:03	71-43-2	
Ethylbenzene	**1520**	ug/L	22.0	6.6	20		11/05/18 15:03	100-41-4	
Methyl-tert-butyl ether	**10.6J**	ug/L	21.4	6.4	20		11/05/18 15:03	1634-04-4	
Naphthalene	**341**	ug/L	33.6	10.1	20		11/05/18 15:03	91-20-3	
Toluene	**2320**	ug/L	32.6	9.8	20		11/05/18 15:03	108-88-3	
1,2,4-Trimethylbenzene	**1410**	ug/L	22.8	6.8	20		11/05/18 15:03	95-63-6	
1,3,5-Trimethylbenzene	**393**	ug/L	21.8	6.6	20		11/05/18 15:03	108-67-8	
m&p-Xylene	**3980**	ug/L	43.6	13.1	20		11/05/18 15:03	179601-23-1	
o-Xylene	**932**	ug/L	21.0	6.3	20		11/05/18 15:03	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		20		11/05/18 15:03	98-08-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: 7083 GREATER BASS
Pace Project No.: 40178769

Sample: GB6 **Lab ID: 40178769006** Collected: 10/29/18 14:02 Received: 11/01/18 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		11/05/18 11:39	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 11:39	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		11/05/18 11:39	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		11/05/18 11:39	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		11/05/18 11:39	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		11/05/18 11:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 11:39	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		11/05/18 11:39	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		11/05/18 11:39	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		11/05/18 11:39	98-08-8	

Sample: GB7 **Lab ID: 40178769007** Collected: 10/29/18 14:20 Received: 11/01/18 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		11/05/18 12:04	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 12:04	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		11/05/18 12:04	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		11/05/18 12:04	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		11/05/18 12:04	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		11/05/18 12:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 12:04	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		11/05/18 12:04	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		11/05/18 12:04	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		11/05/18 12:04	98-08-8	

Sample: GB8 **Lab ID: 40178769008** Collected: 10/29/18 15:12 Received: 11/01/18 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		11/05/18 12:30	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 12:30	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		11/05/18 12:30	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		11/05/18 12:30	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		11/05/18 12:30	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		11/05/18 12:30	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		11/05/18 12:30	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		11/05/18 12:30	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		11/05/18 12:30	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 7083 GREATER BASS
Pace Project No.: 40178769

Sample: GB8 **Lab ID: 40178769008** Collected: 10/29/18 15:12 Received: 11/01/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		11/05/18 12:30	98-08-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 7083 GREATER BASS
Pace Project No.: 40178769

QC Batch: 305390 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40178769001, 40178769002, 40178769003, 40178769004, 40178769005, 40178769006, 40178769007, 40178769008

METHOD BLANK: 1784854 Matrix: Water
Associated Lab Samples: 40178769001, 40178769002, 40178769003, 40178769004, 40178769005, 40178769006, 40178769007, 40178769008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	11/05/18 08:14	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	11/05/18 08:14	
Benzene	ug/L	<0.31	1.0	11/05/18 08:14	
Ethylbenzene	ug/L	<0.33	1.1	11/05/18 08:14	
m&p-Xylene	ug/L	<0.66	2.2	11/05/18 08:14	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	11/05/18 08:14	
Naphthalene	ug/L	<0.51	1.7	11/05/18 08:14	
o-Xylene	ug/L	<0.32	1.0	11/05/18 08:14	
Toluene	ug/L	<0.49	1.6	11/05/18 08:14	
a,a,a-Trifluorotoluene (S)	%	100	80-120	11/05/18 08:14	

LABORATORY CONTROL SAMPLE & LCSD: 1784855 1784856

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.1	20.8	105	104	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	20.6	20.4	103	102	80-120	1	20	
Benzene	ug/L	20	20.8	20.4	104	102	80-120	2	20	
Ethylbenzene	ug/L	20	21.1	20.8	105	104	80-120	1	20	
m&p-Xylene	ug/L	40	41.5	40.8	104	102	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	20.2	19.9	101	100	80-120	1	20	
Naphthalene	ug/L	20	20.2	20.4	101	102	80-120	1	20	
o-Xylene	ug/L	20	20.5	20.3	103	102	80-120	1	20	
Toluene	ug/L	20	21.0	20.7	105	103	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785044 1785045

Parameter	Units	40178764014 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	21.6	21.9	108	110	51-160	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	21.0	21.4	105	107	56-146	2	20	
Benzene	ug/L	1.1	20	20	21.3	21.4	101	101	71-137	0	20	
Ethylbenzene	ug/L	<0.33	20	20	22.0	22.2	110	111	71-141	1	20	
m&p-Xylene	ug/L	<0.66	40	40	42.9	43.2	107	108	66-141	1	20	
Methyl-tert-butyl ether	ug/L	<0.32	20	20	19.2	19.5	96	98	80-120	2	20	
Naphthalene	ug/L	<0.51	20	20	21.9	22.7	109	114	67-138	4	20	
o-Xylene	ug/L	<0.32	20	20	21.0	21.5	105	107	75-133	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7083 GREATER BASS
Pace Project No.: 40178769

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785044 1785045

Parameter	Units	40178764014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.49	20	20	21.3	21.6	107	108	76-134	1	20	
a,a,a-Trifluorotoluene (S)	%						107	107	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALIFIERS

Project: 7083 GREATER BASS
Pace Project No.: 40178769

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7083 GREATER BASS
Pace Project No.: 40178769

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178769001	**GB1**	WI MOD GRO	305390		
40178769002	**GB2**	WI MOD GRO	305390		
40178769003	**GB3**	WI MOD GRO	305390		
40178769004	**GB4**	WI MOD GRO	305390		
40178769005	**GB5**	WI MOD GRO	305390		
40178769006	**GB6**	WI MOD GRO	305390		
40178769007	**GB7**	WI MOD GRO	305390		
40178769008	**GB8**	WI MOD GRO	305390		

Pace Analytical®
www.pacelabs.com

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

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40178769

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

(Please Print Clearly)	
Company Name:	RE1
Branch/Location:	
Project Contact:	David Lassen
Phone:	715-675-9784
Project Number:	7053
Project Name:	Greater Bass
Project State:	WI
Sampled By (Print):	David Lassen
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	GB1	10/29/16	1:11	GW	N	B	RSK-175			
002	GB2		12:52							
003	GB3		2:56							
004	GB4		1:30							
005	GB5		1:40							
006	GB6 2:02		~~2:20~~							
007	GB7		2:20							
008	GB8		3:12				X			

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By: WACTCO	Date/Time: 11/11/16 0900	Received By: PACE	Date/Time: 11/11/16 0900
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
40178769

Receipt Temp = R01 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

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

Sample Preservation Receipt Form

Client Name: REI Project # 40178769

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: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																																	2.5 / 5 / 10
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016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	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:	

Pace Analytical™ 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#: 40178769

40178769

Client Name: REI

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

Tracking #: 1883351

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 - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: RU

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

Person examining contents:
Date: 11/1/18
Initials: CMG

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. Pdf sent email to Jennifer 10/1/18
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WW		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑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: JW **Date:** 11/1/18

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