REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

May 29, 2019

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

Subject:

Update Report
Hedlund DX
10557 State Highway 70
Falun, WI
BRRTS #03-07-000151
PECFA #54840-9999-00

Dear Ms. Stoltz:

Enclosed is the Update Report for the above-mentioned site. This report is specific to the completion of two (2) rounds of approved groundwater sampling after the completion of the September 2018 soil excavation. This report also provides monitoring well replacement documentation and post excavation groundwater sampling results.

If upon review of this report you have any comments, questions and/or require additional information please contact our office at (715) 675-9784.

Sincerely,
REI Engineering, Inc.

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

Enclosure (A/S)

cc: Burnett County, Attn: Mr. Nathan Ehalt, 7410 County Road K, #116, Siren, WI 54872

REI

CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

UPDATE REPORT
HEDLUND DX
10557 STATE HIGHWAY 70
FALUN, WISCONSIN

BRRTS #03-07-000151
PECFA #54840-9999-00
REI PROJECT #7367

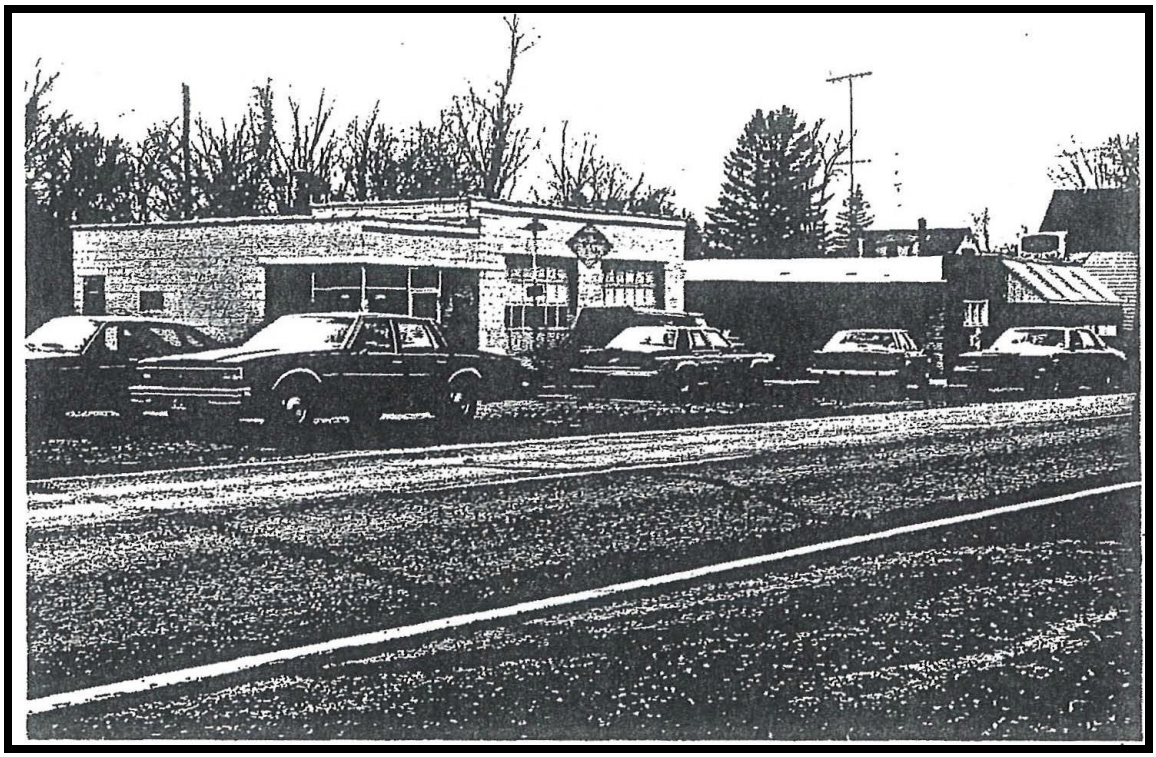
COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS

UPDATE REPORT

HEDLUND DX
10557 STATE HIGHWAY 70
FALUN, WI

BRRTS #03-07-000151
PECFA #54840-9999-00

REI #7367



PREPARED FOR:

Burnett County
Attn: Mr. Nathan Ehalt
7410 Cty Road K, #116
Siren, WI 54872

MAY 2019

UPDATE REPORT

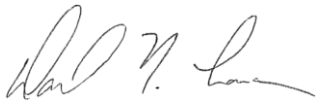
HEDLUND DX
10557 STATE HIGHWAY 70
FALUN, WI

BRRTS #03-07-000151
PECFA #54840-9999-00

REI #7367

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 — 5-29-19 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."

5-29-19

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

UPDATE REPORT

HEDLUND DX
10557 STATE HIGHWAY 70
FALUN, WI

BRRTS #03-07-000151
PECFA #54840-9999-00

REI #7367

1.0 INTRODUCTION

1.1 Purpose

This report presents the completion of two (2) additional rounds of groundwater sampling following the completion of the September 2018 soil excavation at the former Hedlund DX site. Monitoring wells MW2, MW3, MW4 and MW5 were all abandoned during soil excavation activities. Replacement wells for the four (4) abandoned wells were installed following the completion of the soil excavation.

2.0 SITE LOCATION

The former Hedlund DX site is located in the NW ¼ of the NW ¼ of Section 19, Township 38 North, Range 17 West, in the Town of Daniels, Burnett County, Wisconsin (Figure 1). The site address is 10557 State Highway 70, Falun, Wisconsin 54840. Wisconsin Transverse Mercator (WTM) coordinates are 323585, 591806.

3.0 SUMMARY OF WORK

3.1 Replacement Monitoring Well Installation

On September 24-25, 2018, REI was on site to direct and oversee the installation of replacement groundwater monitoring wells MW2R, MW3R, MW4R and MW5R. Gestra Engineering, Inc. of Milwaukee, WI was contracted to install the replacement wells. Each of the replacement wells were blind drilled to a depth of fifteen (15) feet below ground surface (bgs).

Figure 2 presents the location of the updated monitoring well network. WDNR boring log forms are included in Appendix A. MW2R, MW3R, MW4R and MW5R were developed, sampled and surveyed into the existing well network. Well construction forms and well development forms are also included in Appendix A. All purge water was containerized in 55-gallon DOT approved steel drums and taken to Wausau Wastewater Treatment Plant for disposal. Soil cuttings were also containerized in 55-gallon DOT approved steel drums and taken to the Lincoln County Landfill. Disposal Documentation is included in Appendix B.

3.2 Groundwater Monitoring and Analytical Results

Two (2) rounds of groundwater sampling were completed from all wells from the existing well network on September 25, 2018 and December 12, 2018. Depth to groundwater was measured in each well prior to sampling. Table 1 presents the depth to groundwater and groundwater elevations for this investigation. Groundwater samples were collected and submitted to Pace Analytical, Green Bay, WI for analysis of PVOC and naphthalene compounds. Groundwater analytical results are summarized in Tables 2a-o. The complete laboratory analytical report is included as Appendix C.

Groundwater sample results document residual groundwater contamination in concentrations exceeding the NR 140.10 Groundwater Quality Enforcement Standards (ES) for petroleum compounds following the May 16, 2018 sample event at MW2R, MW3R, MW4R and MW5R. Preventive Action Limit (PAL) exceedances were only reported at MW6.

Figure 3 presents the potentiometric groundwater contours from the December 12, 2018 groundwater sampling event. This potentiometric contour map is based on the recorded depths to water. Groundwater at this site is artesian, with water levels typically no less than four (4) feet bgs. Soil conditions document clay to a depth of approximately fourteen (14) feet bgs to saturated sands.

The historical flow direction from the former Hedlund DX site has been from the northeast to the southwest. The piezometric flow direction from December 12, 2018 is northerly and is inconsistent with the historical groundwater potentiometric flow map. The potentiometric water surface is relatively flat. Nine (9) of the eleven (11) monitoring wells record depth to water within 0.65 feet of each other. MW1 and MW10 are the only wells that were not constructed as flushmount wells. MW1 and MW10 are the wells that also had the greatest fluctuations in recorded depths to water (Table 1).

3.3 Potable Well Sampling

REI collected samples from the neighboring properties (Backwoods Bait and Tackle, 10561 State Hwy 70 and Bob's Service, 10531 State Hwy 70) potable wells during the sampling event September 18 and December 12, 2018 sample events. The samples were submitted to a state certified lab and analyzed for drinking water VOCs (EPA Method 524.2). The potable well samples analyzed revealed no VOC impact to the potable water supply wells. Analytical results are summarized in Table 2n and 2o and copies of the laboratory analytical reports are included in Appendix C.

4.0 Conclusion and Recommendations

REI has completed the previously approved scope of services. While groundwater analytical results remain near pre-excavation levels, the soil excavation did not extend into the smear zone. Artesian conditions limited the depth of the excavation from approximately fourteen (14) feet to eight (8) feet bgs.

REI is recommending continued post excavation groundwater sampling for PVOC/N compounds on a quarterly basis for two (2) additional sampling events followed by an update report. PECFA is currently set to sunset in June 2020. If the sunset date is not extended this site will need to be reviewed for case closure consideration following the recommended scope of services. If the sunset date is extended, additional groundwater monitoring may be recommended to develop post soil excavation groundwater contaminant trends.

Table 1
Depth to Water and Water Table Elevations
Hedlund DX
Falun, Wisconsin

Depth to Water (feet) below Reference Elevation

Date	MW1	MW2	MW2R	MW3	MW3R	MW4	MW4R	MW5	MW5R	MW6	MW7	MW8	MW9	MW10	MW11
9/14/2016	5.23	2.02		1.74		2.18		2.46		2.50	0.97				
1/12/2017	5.86	froze		2.11		2.66		2.67		2.79	1.04	4.59	3.35	5.83	2.63
1/26/2018	4.34	froze		2.10		3.95		froze		2.62	froze	4.33	3.03	5.45	froze
5/16/2018	5.54	2.85		2.17		2.61		3.04		3.09	1.60	4.89	3.56	6.10	2.89
9/25/2018	5.08	Abandoned	2.94	Abandoned	2.18	Abandoned	4.72	Abandoned	3.00	3.51	1.62	4.64	3.77	6.12	2.97
12/12/2018	4.68		2.94		2.48		3.41		3.46	3.12	1.42	4.91	3.63	3.54	2.81

Measuring Point Elevations

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

Top of Casing Elevation

Initial Survey	961.15	958.40		957.79		958.04		958.69		958.97	957.21	960.68	959.39	961.41	958.33
9/28/2018			958.39		958.05		958.55		959.02						

Ground Surface Elevation

Initial Survey	959.18	958.79		958.30		958.57		959.00		959.55	957.76	961.02	959.78	958.25	958.92
9/28/2018			958.74		958.10		958.89		959.27						

Depth to Water (feet) below Ground Surface

Average	3.16	2.82	3.29	2.54	2.38	3.38	4.41	3.03	3.48	3.52	1.88	5.01	3.86	2.25	3.41
Maximum	3.89	3.23	3.29	2.68	2.53	4.48	5.06	3.35	3.71	4.09	2.17	5.25	4.16	2.96	3.56
Minimum	2.37	2.40	3.29	2.25	2.23	2.71	3.75	2.77	3.25	3.08	1.52	4.67	3.42	0.38	3.22
Range	1.52	0.83	0.00	0.43	0.30	1.77	1.31	0.58	0.46	1.01	0.65	0.58	0.74	2.58	0.34

Water Level Elevation (feet MSL)

Date	MW1	MW2	MW2R	MW3	MW3R	MW4	MW4R	MW5	MW5R	MW6	MW7	MW8	MW9	MW10	MW11
9/14/2016	955.92	956.38		956.05		955.86		956.23		956.47	956.24				
1/12/2017	955.29			955.68		955.38		956.02		956.18	956.17	956.09	956.04	955.58	955.70
1/26/2018	956.81			955.69		954.09				956.35		956.35	956.36	955.96	
5/16/2018	955.61	955.55		955.62		955.43		955.65		955.88	955.61	955.79	955.83	955.31	955.44
9/25/2018	956.07	Abandoned	955.45	Abandoned	955.87	Abandoned	953.83	Abandoned	956.02	955.46	955.59	956.04	955.62	955.29	955.36
12/12/2018	956.47		955.45		955.57		955.14		955.56	955.85	955.79	955.77	955.76	957.87	955.52

Table 2a
Summary of Groundwater Analytical Results
WDOT Investigation
Hedlund DX
Falun, Wisconsin

			Sample Location ->	WDX-1	WDX-3	WDX-5
			Date ->	11/7/1989	6/7/1990	6/7/1990
Detected VOC Parameters	ES	PAL	Units			
Benzene	5	0.5	µg/l	**120**	**224**	**690**
Toluene	800	160	µg/l	140	*180*	18
Ethylbenzene	700	140	µg/l	58	19	5.9
Xylenes (mixed isomers)	2,000	400	µg/l	140	117	*810*
1,2-DCA	5	0.5	µg/l	**11**	NA	NA

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 2b
Summary of Groundwater Analytical Results
Foth & Van Dyke Investigation
Hedlund DX
Falun, Wisconsin

				MW1		MW3		MW4	
			Date ->	12/31/1990	3/21/1991	12/31/1990	3/21/1991	12/31/1990	3/21/1991
Detected VOC Parameters	ES	PAL	Units						
TPH as Gasoline			µg/l	60	78	870	27,000	70	120,000
Benzene	5	0.5	µg/l	< 1.0	< 1.0	**6**	**1,700**	< 1.0	**6,900**
Toluene	800	160	µg/l	< 1.0	< 1.0	26	**890**	< 1.1	**2,000**
Ethylbenzene	700	140	µg/l	< 1.0	< 1.0	9	*450*	< 1.0	**1,600**
Xylenes (mixed isomers)	2,000	400	µg/l	< 3.0	9.3	49	1,600	< 1.0	**7,800**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 4.0	< 4.0	< 4.0	**88**	< 4.0	< 4.0
Lead	15	1.5	µg/l	**200**	< 1.0	< 1.0	< 1.0	**400**	**40**

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 2c
Summary of Groundwater Analytical Results
MW1
Hedlund DX
Falun, Wisconsin

			Date ->	8/8/2016	9/13/2016	1/11/2017	1/26/2018	5/16/2018	September 17-18, 2018	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units								
Benzene	5	0.5	µg/l	< 0.40	< 0.40	< 0.40	< 0.40	< 0.31		< 0.31	< 0.31
Toluene	800	160	µg/l	< 0.39	< 0.39	< 0.39	< 0.39	< 0.49		< 0.49	< 0.49
Ethylbenzene	700	140	µg/l	< 0.39	< 0.39	< 0.39	< 0.39	< 0.33		< 0.33	< 0.33
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.80	< 0.80	< 0.80	< 0.80	0.67[J]		< 0.66	< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	< 0.48	< 0.48	< 0.48	< 0.32		< 0.32	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.42	< 0.42	< 0.42	< 0.42	0.42[J]		< 0.34	< 0.34
Naphthalene	100	10	µg/l	< 0.42	< 0.42	< 0.42	< 0.42	< 0.51		< 0.51	< 0.51
Field Measurements											
Temperature			°F	NA	NA	NA	40.72	NA		60.3	47.2
Conductivity			ms/cm	NA	NA	NA	294	NA		520.8	702
Dissolved Oxygen			mg/L	NA	NA	NA	2.00	NA		0.52	0.29
pH				NA	NA	NA	7.45	NA		6.74	7.35
Redox Potential			mV	NA	NA	NA	-127.8	NA		-103.1	-36.5

Soil Excavation Completed

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
MW2/MW2R
Hedlund DX
Falun, Wisconsin

				MW2					MW2R	
			Date ->	9/13/2016	1/11/2017	1/26/2018	5/16/2018	September	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units					17-18, 2018		
Benzene	5	0.5	µg/l	**32.7**	Water Froze in Well - Not Sampled	Water Froze in Well - Not Sampled	**50.8**	Soil Excavation Completed	**16.7**	**45.6**
Toluene	800	160	µg/l	9.1			3.5		1.3[J]	2.7
Ethylbenzene	700	140	µg/l	19			10.4		3.6	11.3
Xylenes (mixed isomers)	2,000	400	µg/l	52.1			23.2		9.4	24.1
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	0.95[J]			0.67[J]		< 0.32	0.39[J]
Trimethylbenzenes (mixed isomers)	480	96	µg/l	10.1			12.4		2.1	6.6
Naphthalene	100	10	µg/l	3.5			3.1		0.53[J]	1.8
Field Measurements										
Temperature			°F	NA			NA	MW2 Abandoned Replaced with MW2R	NA	45.9
Conductivity			ms/cm	NA			NA		NA	502.9
Dissolved Oxygen			mg/L	NA			NA		NA	0.77
pH				NA			NA		NA	7.27
Redox Potential			mV	NA			NA		NA	11.1

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 2e
Summary of Groundwater Analytical Results
MW3/MW3R
Hedlund DX
Falun, Wisconsin

				MW3					MW3R	
			Date ->	9/13/2016	1/11/2017	1/26/2018	5/16/2018	September	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units					17-18, 2018		
Benzene	5	0.5	µg/l	**165**	**44.6**	< 0.40	**607**		**112**	**121**
Toluene	800	160	µg/l	36.1	0.79[J]	< 0.39	99.5	Soil	4.9	< 0.98
Ethylbenzene	700	140	µg/l	*146*	12.3	< 0.39	*314*	Excavation	20.7	3.9
Xylenes (mixed isomers)	2,000	400	µg/l	*720*	14.4	< 0.80	*569*	Completed	33.6	< 1.3
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 1.2	1.0	< 0.48	< 3.2		< 0.64	< 0.64
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*183.1*	12.0	< 0.42	*128.3*		12.2	< 0.68
Naphthalene	100	10	µg/l	*44.9*	5.0	< 0.42	*49.4*		5.1	< 1.0
Field Measurements										
Temperature			°F	NA	NA	NA	NA	MW3	NA	44.6
Conductivity			ms/cm	NA	NA	NA	NA	Abandoned	NA	518.3
Dissolved Oxygen			mg/L	NA	NA	NA	NA	Replaced	NA	0.08
pH				NA	NA	NA	NA	with MW3R	NA	7.31
Redox Potential			mV	NA	NA	NA	NA		NA	-36.2

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 2f
Summary of Groundwater Analytical Results
MW4/MW4R
Hedlund DX
Falun, Wisconsin

				MW4					MW4R	
			Date ->	9/13/2016	1/11/2017	1/26/2018	5/16/2018	September	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units					17-18, 2018		
Benzene	5	0.5	µg/l	**1,130**	**659**	**460**	**884**	Soil Excavation Completed	**1,600**	**835**
Toluene	800	160	µg/l	*301*	18.7	11.6	43.7		**924**	*262*
Ethylbenzene	700	140	µg/l	*395*	*146*	99.2	*154*		**890**	*264*
Xylenes (mixed isomers)	2,000	400	µg/l	**11,504**	160	65	236.4		**5,180**	**2,770**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 2.4	< 4.8	< 4.8	< 6.4		< 8.0	9.4[J]
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*322.7*	49.3	21.2	*100.4*		**1,029**	**898**
Naphthalene	100	10	µg/l	*74.7*	*13.9*	7.8[J]	*22.6*[J]	MW4 Abandoned Replaced with MW4R	**280**	**174**
Field Measurements										
Temperature			°F	NA	NA	42.3	NA		NA	NA
Conductivity			ms/cm	NA	NA	33.7	NA		NA	NA
Dissolved Oxygen			mg/L	NA	NA	0.97	NA		NA	NA
pH				NA	NA	7.3	NA		NA	NA
Redox Potential			mV	NA	NA	-212.8	NA		NA	NA

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 2g
Summary of Groundwater Analytical Results
MW5/MW5R
Hedlund DX
Falun, Wisconsin

				MW5					MW5R	
			Date ->	9/13/2016	1/11/2017	1/26/2018	5/16/2018	September 17-18, 2018	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units							
Benzene	5	0.5	µg/l	**119**	**77.9**	Water Froze in Well - Not Sampled	**175**	Soil Excavation Completed	**247**	**146**
Toluene	800	160	µg/l	24	11.7		69.2		57.8	37.2
Ethylbenzene	700	140	µg/l	109	65.1		*381*		*267*	*365*
Xylenes (mixed isomers)	2,000	400	µg/l	285	102		*608.4*		*637.5*	*562.9*
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	2.0	1.3		7.3[J]		3.5[J]	4.9[J]
Trimethylbenzenes (mixed isomers)	480	96	µg/l	79.3	32.8		**545**		*441*	**528**
Naphthalene	100	10	µg/l	*17.2*	*10.6*		*91.7*	MW5 Abandoned Replaced with MW5R	*56.7*	*95.9*
Field Measurements										
Temperature			°F	NA	NA		NA		NA	46.5
Conductivity			ms/cm	NA	NA		NA		NA	768
Dissolved Oxygen			mg/L	NA	NA		NA		NA	0.16
pH				NA	NA		NA		NA	7.26
Redox Potential			mV	NA	NA		NA		NA	-40.3

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 2h
Summary of Groundwater Analytical Results
MW6
Hedlund DX
Falun, Wisconsin

			Date ->	9/13/2016	1/11/2017	1/26/2018	5/16/2018	September 17-18, 2018	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units							
Benzene	5	0.5	µg/l	*3.5*	**23.1**	**6.5**	*1.6*		*3.6*	*2.9*
Toluene	800	160	µg/l	0.88[J]	< 0.39	< 0.39	< 0.49		< 0.49	< 0.49
Ethylbenzene	700	140	µg/l	2.8	3.9	0.62[J]	< 0.33		< 0.33	< 0.33
Xylenes (mixed isomers)	2,000	400	µg/l	6.4	< 0.80	< 0.80	< 0.66		< 0.66	0.69[J]
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	< 0.48	< 0.48	< 0.32		< 0.32	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1.3	< 0.42	0.50[J]	< 0.34	Soil	0.40[J]	0.44[J]
Naphthalene	100	10	µg/l	0.46[J]	< 0.42	< 0.42	< 0.51	Excavation	< 0.51	< 0.51
Field Measurements								Completed		
Temperature			°F	NA	NA	41.8	NA		63.9	45.5
Conductivity			ms/cm	NA	NA	303	NA		529	966
Dissolved Oxygen			mg/L	NA	NA	3.43	NA		3.03	0.51
pH				NA	NA	7.32	NA		6.74	7.16
Redox Potential			mV	NA	NA	-162.9	NA		123.5	85.6

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 2i
Summary of Groundwater Analytical Results
MW7
Hedlund DX
Falun, Wisconsin

	ES	PAL	Units	9/21/2016	1/11/2017	1/26/2018	5/16/2018	September 17-18, 2018	9/25/2018	12/12/2018
Dissolved Lead	15	1.5	µg/l	< 3.0	NA	NA	NA		NA	NA
Detected VOC Parameters										
Benzene	5	0.5	µg/l	< 0.40	< 0.40		< 0.31		< 0.31	< 0.31
Toluene	800	160	µg/l	< 0.39	< 0.39		< 0.49		< 0.49	< 0.49
Ethylbenzene	700	140	µg/l	< 0.39	< 0.39		< 0.33		< 0.33	< 0.33
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.80	< 0.80		< 0.66		< 0.66	< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	< 0.48		< 0.32		< 0.32	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.42	< 0.42	Water Froze in Well - Not Sampled	< 0.34	Soil Excavation Completed	< 0.34	< 0.34
Naphthalene	100	10	µg/l	< 0.42	< 0.42		< 0.51		< 0.51	< 0.51
Field Measurements										
Temperature			°F	NA	NA		NA		66.2	41.4
Conductivity			ms/cm	NA	NA		NA		475.5	455.7
Dissolved Oxygen			mg/L	NA	NA		NA		2.57	0.54
pH				NA	NA		NA		7.17	7.29
Redox Potential			mV	NA	NA		NA		-47.5	162.2

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 2j
Summary of Groundwater Analytical Results
MW8
Hedlund DX
Falun, Wisconsin

			Date ->	1/11/2017	1/26/2018	5/16/2018	September	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units				17-18, 2018		
Benzene	5	0.5	µg/l	< 0.50	< 0.40	< 0.31		< 0.31	< 0.31
Toluene	800	160	µg/l	< 0.50	< 0.39	< 0.49		< 0.49	< 0.49
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39	< 0.33		< 0.33	< 0.33
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80	< 0.66		< 0.66	< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48	< 0.32		< 0.32	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42	< 0.34		< 0.34	< 0.34
Naphthalene	100	10	µg/l	< 2.5	< 0.42	< 0.51		< 0.51	< 0.51
Tetrachloroethene	5	0.5	µg/l	*0.75*[J]	NA	NA	Soil	NA	NA
Inorganic Compounds							Excavation		
Dissolved Iron	300	150	µg/l	**4,670**	NA	NA	Completed	NA	NA
Dissolved Manganese	50	25	µg/l	**1,190**	NA	NA		NA	NA
Field Measurements									
Temperature			°F	NA	46.98	NA		59.8	49.2
Conductivity			ms/cm	NA	784	NA		1,675	2,103
Dissolved Oxygen			mg/L	NA	3.41	NA		1.35	0.16
pH				NA	7.45	NA		6.86	7.08
Redox Potential			mV	NA	-31.1	NA		-0.5	42.6

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 2k
Summary of Groundwater Analytical Results
MW9
Hedlund DX
Falun, Wisconsin

			Date ->	1/11/2017	1/26/2018	5/16/2018	September	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units				17-18, 2018		
Benzene	5	0.5	µg/l	< 0.50	< 0.40	< 0.31		< 0.31	< 0.31
Toluene	800	160	µg/l	< 0.50	< 0.39	< 0.49		< 0.49	< 0.49
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39	< 0.33		< 0.33	< 0.33
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80	< 0.66		< 0.66	< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48	< 0.32		< 0.32	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42	< 0.34		< 0.34	< 0.34
Naphthalene	100	10	µg/l	< 2.5	< 0.42	< 0.51		< 0.51	< 0.51
Tetrachloroethene	5	0.5	µg/l	*1.2*	NA	NA	Soil	NA	NA
Inorganic Compounds							Excavation		
Dissolved Iron	300	150	µg/l	**2,370**	NA	NA	Completed	NA	NA
Dissolved Manganese	50	25	µg/l	**394**	NA	NA		NA	NA
Field Measurements									
Temperature			°F	NA	42.87	NA		61.2	45.8
Conductivity			ms/cm	NA	339	NA		1,043	1,001
Dissolved Oxygen			mg/L	NA	2.1	NA		0.46	1.0
pH				NA	7.37	NA		7.02	7.3
Redox Potential			mV	NA	-86.3	NA		-70.0	-8.6

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 2l
Summary of Groundwater Analytical Results
MW10
Hedlund DX
Falun, Wisconsin

			Date ->	1/11/2017	1/26/2018	5/16/2018	September	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units				17-18, 2018		
Benzene	5	0.5	µg/l	< 0.50	< 0.40	< 0.31		< 0.31	< 0.31
Toluene	800	160	µg/l	< 0.50	< 0.39	< 0.49		< 0.49	< 0.49
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39	< 0.33		< 0.33	< 0.33
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80	< 0.66		< 0.66	< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48	< 0.32		< 0.32	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42	< 0.34		< 0.34	< 0.34
Naphthalene	100	10	µg/l	< 2.5	< 0.42	< 0.51		< 0.51	< 0.51
Tetrachloroethene	5	0.5	µg/l	< 0.50	NA	NA	Soil	NA	NA
Inorganic Compounds							Excavation		
Dissolved Iron	300	150	µg/l	**1,560**	NA	NA	Completed	NA	NA
Dissolved Manganese	50	25	µg/l	**284**	NA	NA		NA	NA
Field Measurements									
Temperature			°F	NA	387.93	NA		58.1	45.9
Conductivity			ms/cm	NA	183	NA		392.4	406.3
Dissolved Oxygen			mg/L	NA	1.95	NA		0.63	1.49
pH				NA	7.87	NA		7.54	7.74
Redox Potential			mV	NA	-111.2	NA		-102.7	-58.7

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 2m
Summary of Groundwater Analytical Results
MW11
Hedlund DX
Falun, Wisconsin

			Date ->	1/11/2017	1/26/2018	5/16/2018	September	9/25/2018	12/12/2018
Detected VOC Parameters	ES	PAL	Units				17-18, 2018		
Benzene	5	0.5	µg/l	< 0.50		< 0.31		< 0.31	< 0.31
Toluene	800	160	µg/l	< 0.50		< 0.49		< 0.49	< 0.49
Ethylbenzene	700	140	µg/l	< 0.50		< 0.33		< 0.33	< 0.33
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0		< 0.66		< 0.66	< 0.66
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17		< 0.32		< 0.32	< 0.32
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50		< 0.34		< 0.34	< 0.34
Naphthalene	100	10	µg/l	< 2.5		< 0.51		< 0.51	< 0.51
Tetrachloroethene	5	0.5	µg/l	< 0.50	Water Froze in Well - Not Sampled	NA	Soil Excavation Completed	NA	NA
Inorganic Compounds									
Dissolved Iron	300	150	µg/l	**468**		NA		NA	NA
Dissolved Manganese	50	25	µg/l	**292**		NA		NA	NA
Field Measurements									
Temperature			°F	NA		NA		61.2	38.5
Conductivity			ms/cm	NA		NA		342.3	380.6
Dissolved Oxygen			mg/L	NA		NA		0.31	0.78
pH				NA		NA		7.72	8.01
Redox Potential			mV	NA		NA		31.4	-29.4

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 2n
Summary of Groundwater Analytical Results
10561 State Highway 70 - Potable Well
Hedlund DX
Falun, Wisconsin

	ES	PAL	Units	9/21/2016	1/11/2017	1/26/2018	5/16/2018	September	9/25/2018	12/12/2018
Dissolved Lead	15	1.5	µg/l	< 3.0	NA		NA	17-18, 2018	NA	NA
Detected VOC Parameters										
Benzene	5	0.5	µg/l	< 0.086	< 0.086		< 0.032		< 0.12	< 0.12
Toluene	800	160	µg/l	< 0.080	< 0.080		< 0.12		< 0.078	< 0.078
Ethylbenzene	700	140	µg/l	< 0.051	< 0.051	Well Not	< 0.017	Soil	< 0.11	< 0.11
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.073	< 0.073	Sampled	< 0.03	Excavation	< 0.30	< 0.30
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	NA		< 0.016	Completed	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.083	< 0.083		< 0.025		< 0.23	< 0.23
Naphthalene	100	10	µg/l	< 0.064	< 0.064		< 0.022		< 0.18	< 0.18
Tetrachloroethene	5	0.5	µg/l	< 0.12	< 0.12		< 0.04		< 0.17	< 0.17

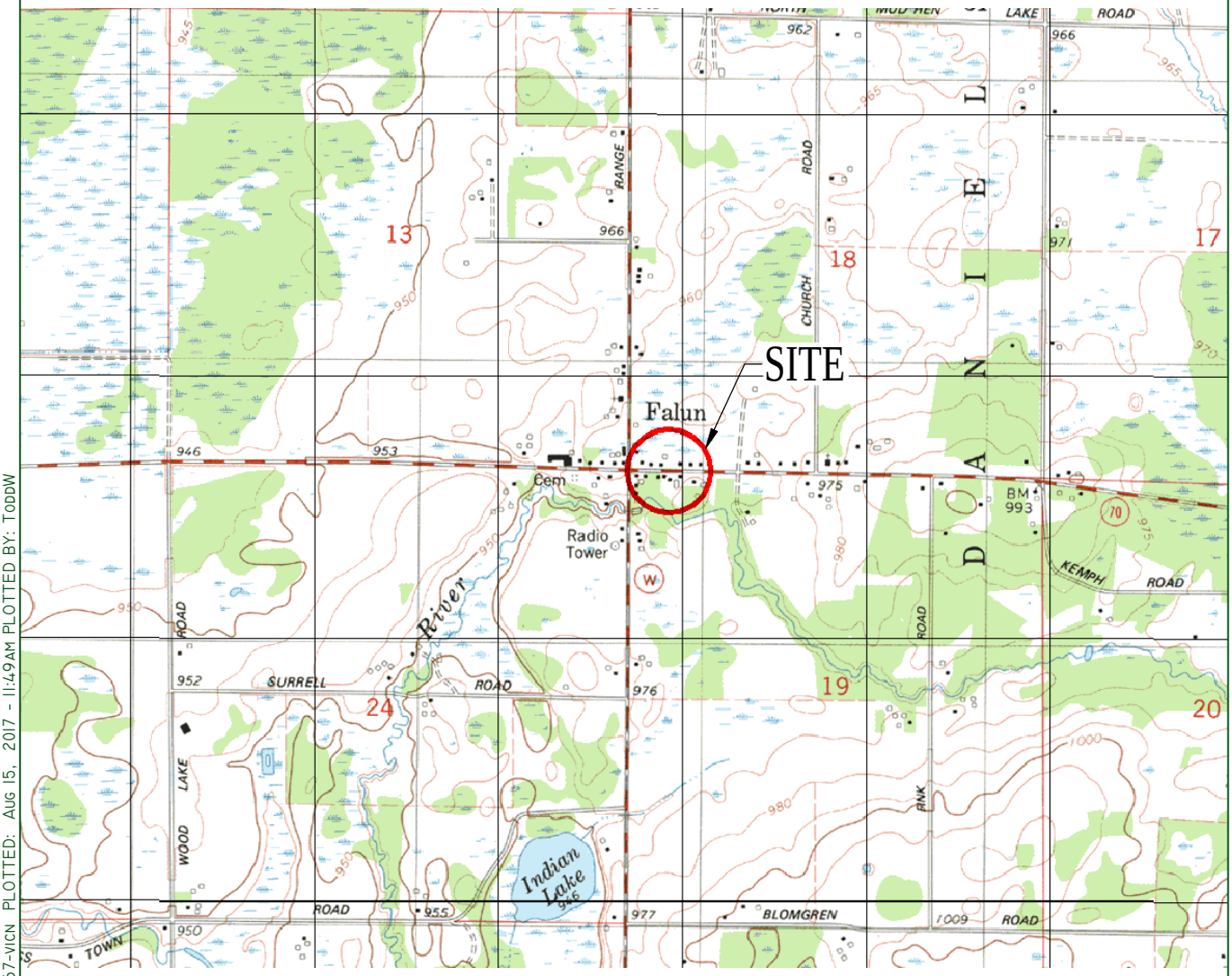
Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
NA = Not Analyzed
NS = Not Sampled
J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2o
Summary of Groundwater Analytical Results
10531 State Highway 70 - Potable Well
Hedlund DX
Falun, Wisconsin

	ES	PAL	Units	9/21/2016	1/11/2017	1/26/2018	5/16/2018	September	9/25/2018	12/12/2018
Dissolved Lead	15	1.5	µg/l	< 3.0				17-18, 2018	NA	NA
Detected VOC Parameters										
Benzene	5	0.5	µg/l	< 0.086					< 0.12	< 0.12
Toluene	800	160	µg/l	< 0.080					< 0.078	< 0.078
Ethylbenzene	700	140	µg/l	< 0.051	Well Not	Well Not	Well Not	Soil	< 0.11	< 0.11
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.073	Sampled	Sampled	Sampled	Excavation	< 0.30	< 0.30
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA				Completed	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.083					< 0.23	< 0.23
Naphthalene	100	10	µg/l	< 0.064					< 0.18	< 0.18
Tetrachloroethene	5	0.5	µg/l	< 0.12					< 0.17	< 0.17

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

REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING



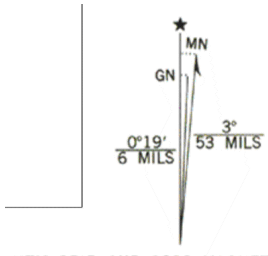
SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929



UTM GRID AND 1982 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

FALUN, WIS.
SE/4 GRANTSBURG 15' QUADRANGLE
N4545–W9230/7.5
1982
DMA 2475 I SE–SERIES V861

QUADRANGLE LOCATION

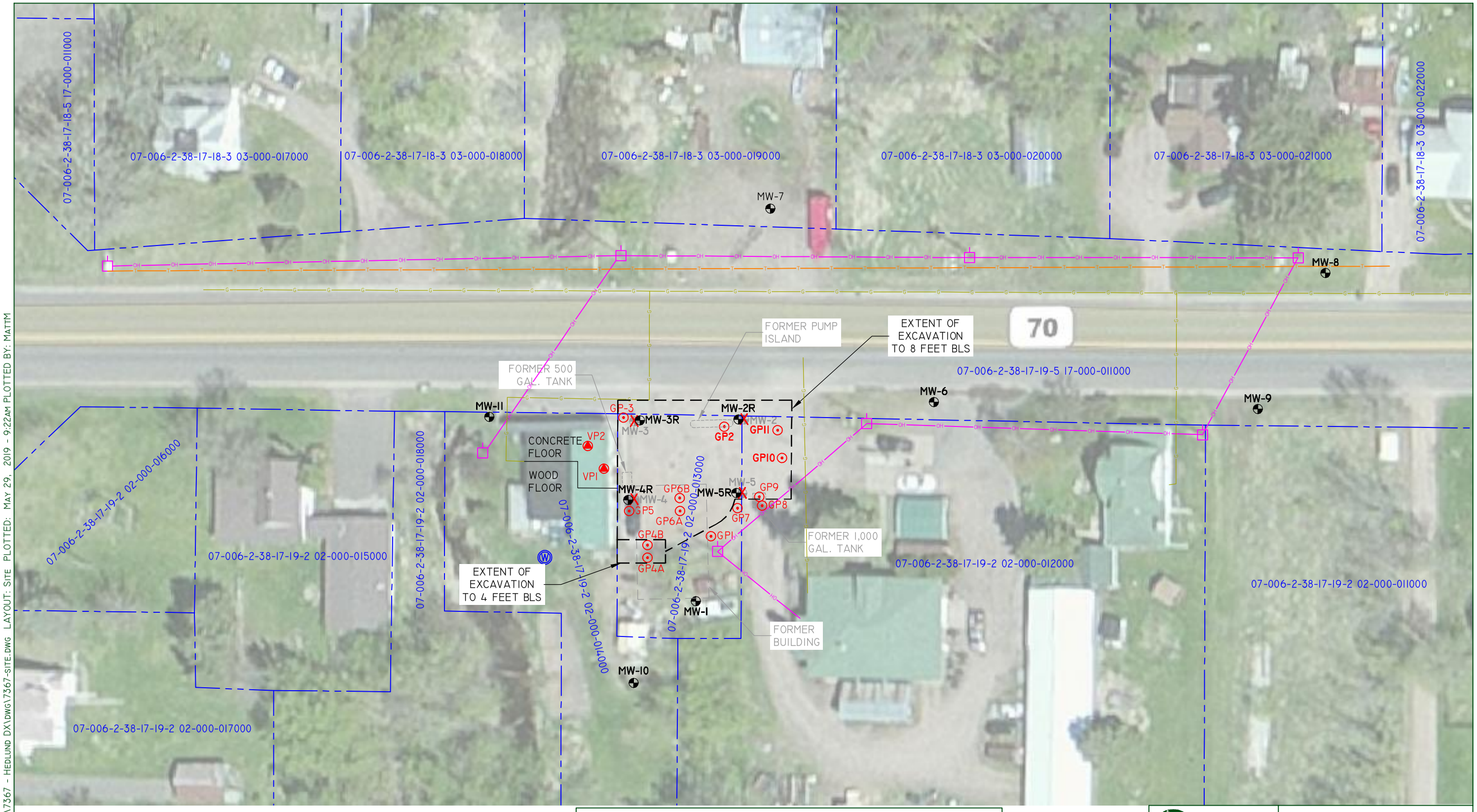
REI Engineering, INC.

BURNETT COUNTY–FORMER HEDLUND DX
10557 STATE HIGHWAY 70
FALUN, WISCONSIN 54872

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	DRAWN BY:	DATE:
7367AxUC	TAW	8/15/2017

DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-VICN.DWG LAYOUT: 7367-VICN PLOTTED: AUG 15, 2017 - 11:49AM PLOTTED BY: TODDW



DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-SITE.DWG LAYOUT: SITE PLOTTED: MAY 29, 2019 - 9:22AM PLOTTED BY: MATTM

LEGEND

0 40

SCALE: 1" = 40'

- GEOPROBE SOIL BORING
- MONITORING WELL
- MONITORING WELL (ABANDONED)
- SUB-SLAB VAPOR PROBE
- POTABLE WELL
- UTILITY POLE
- BURIED GAS LINE
- BURIED TELECOMMUNICATIONS LINE
- OVERHEAD UTILITIES LINE
- EXCAVATION BOUNDARIES (APPROXIMATE)
- PROPERTY BOUNDARIES (APPROXIMATE)

N

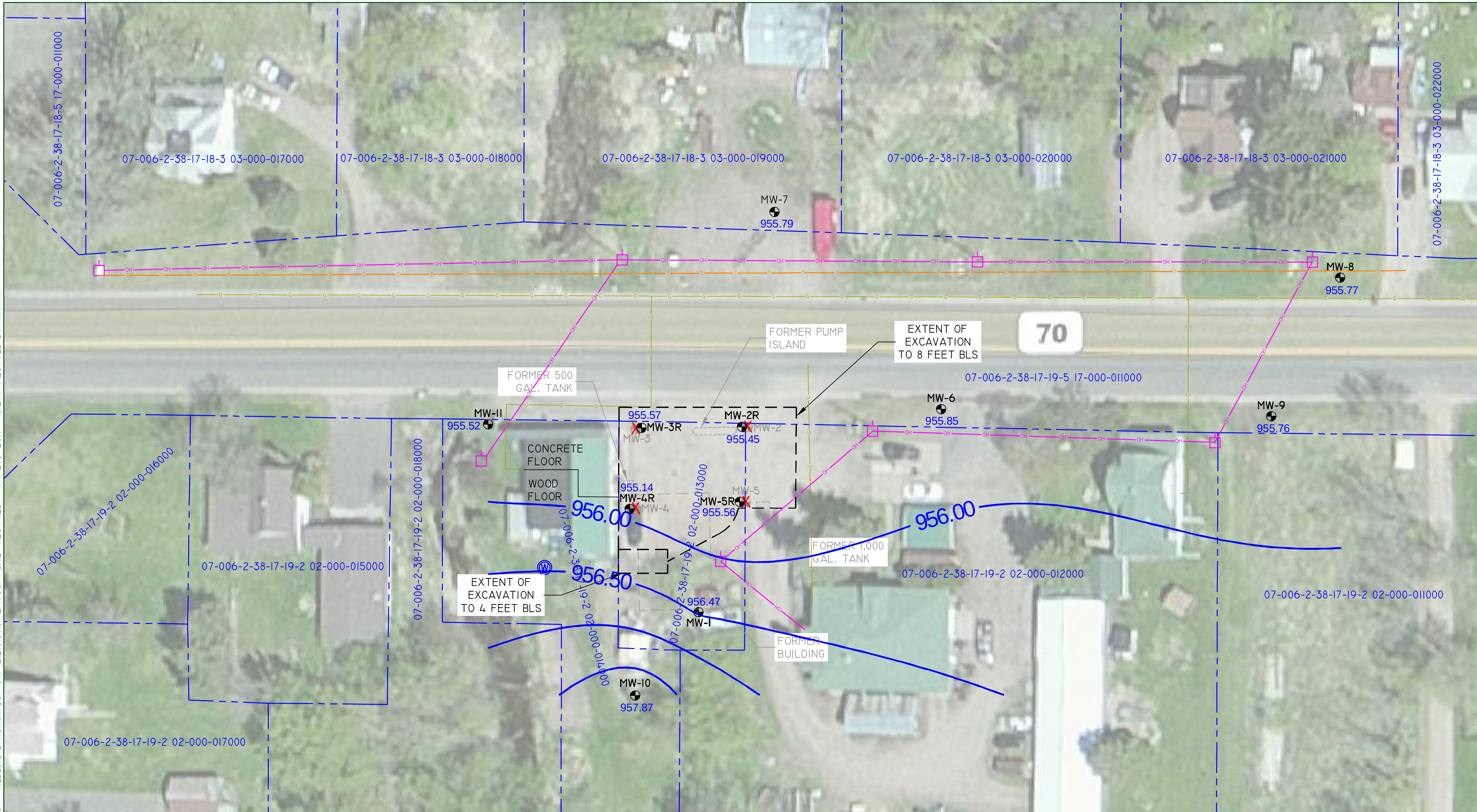
REI Engineering, INC.

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

BURNETT COUNTY–FORMER HEDLUND DX
10557 STATE HIGHWAY 70
FALUN, WISCONSIN 54872

FIGURE 2 : SITE MAP

PROJECT No.	DRAWN BY:	DATE:
7367AxUC	MCM	5/29/2019



NOTES:
1. ELEVATION DATA IS PRESENTED IN FEET MEAN SEA LEVEL.
2. CONTOUR INTERVAL = 0.5 FEET
3. PIEZOMETRIC WATER LEVEL ELEVATIONS MAP IS BASED ON DEPTH TO GROUNDWATER MEASUREMENTS COLLECTED DURING THE DECEMBER 12, 2018 MONITORING EVENT.
4. MONITORING WELLS MW2R AND MW4R WERE NOT USED IN CALCULATION OF CONTOUR FLOW LINES.

LEGEND

SCALE: 1" = 40' (0 – 40)

- MONITORING WELL
- MONITORING WELL (ABANDONED)
- POTABLE WELL
- UTILITY POLE
- BURIED GAS LINE
- BURIED TELECOMMUNICATIONS LINE
- OVERHEAD UTILITIES LINE
- EXCAVATION BOUNDARIES (APPROXIMATE)
- PROPERTY BOUNDARIES (APPROXIMATE)

N

REI Engineering, INC.

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

BURNETT COUNTY–FORMER HEDLUND DX
10557 STATE HIGHWAY 70
FALUN, WISCONSIN 54872

FIGURE 3 : PIEZOMETRIC WATER LEVEL ELEVATION (12/12/18)

PROJECT No.	DRAWN BY:	DATE:
7367AxUC	MCM	5/29/2019

DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-GW-121218.DWG LAYOUT: SITE PLOTTED: MAY 29, 2019 - 10:21AM PLOTTED BY: MATTM

APPENDIX A

SOIL BORING LOGS, WELL CONSTRUCTION FORMS AND WELL DEVELOPMENT FORMS FOR REPLACEMENT WELLS MW2R, MW3R, MW4R AND MW5R

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

Facility/Project Name	County Name	Well Name
Hedlund DX - Falun	Burnett	MW2R

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
BRRTS#03-07-000151	07		

1. Can this well be purged dry? ☑ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☑	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 20 min.

4. Depth of well (from top of well casisng) 15.00 ft.

5. Inside diameter of well 2.047 in.

6. Volume of water in filter pack and well casing 13.27 gal.

7. Volume of water removed from well 23.00 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☑ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 2.92 ft.	11.41 ft.
Date	b. 09 / 25 / 2018 (m m / d d / y y y y)	09 / 25 / 2018
Time	c. 7 : 39 ☑ a.m. ☐ p.m.	7 : 59 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	>6.00 inches	<6.00 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15 (Describe) odor	Clear ☐ 20 Turbid ☑ 25 (Describe) slightly turbid, odor

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Dave Last Name: Larsen
Firm: REI Engineering, Inc

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Nathan Last Name: Ehalt
Facility/Firm: Burnett County
Street: 7410 County Road K #116
City/State/Zip: Siren, WI 54872

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Dave Larsen
Print Name: Dave Larsen
Firm: REI Engineering, Inc

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

Facility/Project Name	County Name	Well Name
Hedlund DX - Falun	Burnett	MW3R

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
BRRTS#03-07-000151	07		

1. Can this well be purged dry? ☑ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☑	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 33 min.

4. Depth of well (from top of well casisng) 15.00 ft.

5. Inside diameter of well 2.047 in.

6. Volume of water in filter pack and well casing 13.08 gal.

7. Volume of water removed from well 12.00 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☑ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 2.18 ft.	12.43 ft.
Date	b. 09 / 25 / 2018 (m m / d d / y y y y)	09 / 25 / 2018
Time	c. 7 : 00 ☑ a.m. ☐ p.m.	7 : 33 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	>6.00 inches	<6.00 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15 (Describe) odor	Clear ☐ 20 Turbid ☑ 25 (Describe) slightly turbid, odor

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids ____.__ mg/l ____.__ mg/l

15. COD ____.__ mg/l ____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Dave Last Name: Larsen
Firm: REI Engineering, Inc

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Nathan Last Name: Ehalt
Facility/Firm: Burnett County
Street: 7410 County Road K #116
City/State/Zip: Siren, WI 54872

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Dave Larsen
Print Name: Dave Larsen
Firm: REI Engineering, Inc

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

Facility/Project Name	County Name	Well Name
Hedlund DX - Falun	Burnett	MW4R

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
BRRTS#03-07-000151	07		

1. Can this well be purged dry? ☑ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☑	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 8 min.

4. Depth of well (from top of well casisng) 15.00 ft.

5. Inside diameter of well 2.047 in.

6. Volume of water in filter pack and well casing 9.05 gal.

7. Volume of water removed from well 10.00 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☑ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.72 ft.	5.82 ft.
Date	b. 09 / 25 / 2018 (m m / d d / y y y y)	09 / 25 / 2018
Time	c. 8 : 18 ☑ a.m. ☐ p.m.	8 : 26 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	<6.00 inches	<6.00 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15	Clear ☑ 20 Turbid ☐ 25
(Describe)	odor	odor

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Dave Last Name: Larsen
Firm: REI Engineering, Inc

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Nathan Last Name: Ehalt
Facility/Firm: Burnett County
Street: 7410 County Road K #116
City/State/Zip: Siren, WI 54872

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Dave Larsen
Firm: REI Engineering, Inc

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

Facility/Project Name	County Name	Well Name
Hedlund DX - Falun	Burnett	MW5R

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
BRRTS#03-07-000151	07		

1. Can this well be purged dry? ☐ Yes ☑ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☑	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 13 min.

4. Depth of well (from top of well casisng) 15.00 ft.

5. Inside diameter of well 2.047 in.

6. Volume of water in filter pack and well casing 10.56 gal.

7. Volume of water removed from well 20.00 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☑ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 3.0 ft.	6.93 ft.
Date	b. 09 / 25 / 2018 (m m d d y y y y)	09 / 25 / 2018 (m m d d y y y y)
Time	c. 9 : 52 ☑ a.m. ☐ p.m.	10 : 52 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	>6.00 inches	<6.00 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15	Clear ☑ 20 Turbid ☐ 25
(Describe)	odor	slightly turbid, odor

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Dave Last Name: Larsen
Firm: REI Engineering, Inc

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Nathan Last Name: Ehalt
Facility/Firm: Burnett County
Street: 7410 County Road K #116
City/State/Zip: Siren, WI 54872

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Dave Larsen
Firm: REI Engineering, Inc

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Hedlund DX - Falun	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW2R
Facility License, Permit or Monitoring No.: BRRTS#03-07-000151	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or	Wis. Unique Well No.: ____ DNR Well ID No.: ____
Facility ID: 807049540	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 09 / 24 / 2018 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 38 N, R. 17 ☐ E ☑ W	Well Installed By: Name (first, last) and Firm: Gestra Engineering, Inc
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.00 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☑ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☑ 99

16. Drilling additives used? ☐ Yes ☑ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.

F. Fine sand, top _____ ft. MSL or 2.00 ft.

G. Filter pack, top _____ ft. MSL or 3.00 ft.

H. Screen joint, top _____ ft. MSL or 5.00 ft.

I. Well bottom _____ ft. MSL or 15.00 ft.

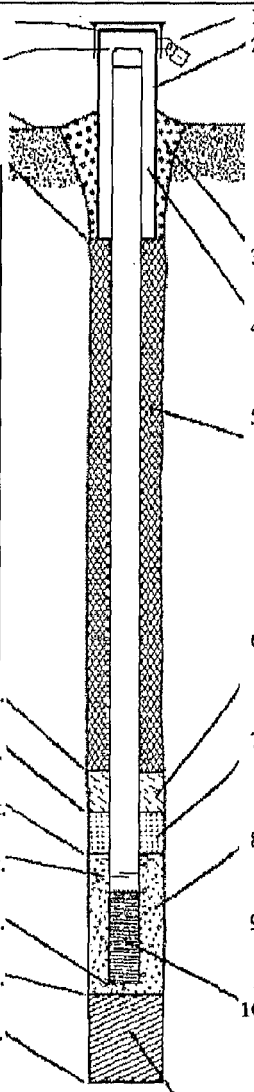
J. Filter pack, bottom _____ ft. MSL or 15.00 ft.

K. Borehole, bottom _____ ft. MSL or 15.00 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.375 in.

N. I.D. well casing 2.047 in.



1. Cap and lock? ☑ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☑ 04 Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 Concrete ☑ 01 Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☑ 30 Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☑ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite chips ☑ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. #40
b. Volume added 0.35 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #15
b. Volume added 0.70 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☑ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☑ 11 Continuous slot ☐ 01 Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.10 in.
d. Slotted length: 10.00 ft.

11. Backfill material (below filter pack): None ☑ 14 Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: REI Engineering, Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Hedlund DX - Falun	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW3R
Facility License, Permit or Monitoring No.: BRRTS#03-07-000151	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: _____ DNR Well ID No.: _____
Facility ID: 807049540	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 09 / 24 / 2018 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 38 N, R. 17 ☐E ☑W	Well Installed By: Name (first, last) and Firm: Gestra Engineering, Inc
Distance from Waste/Source _____ ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.00 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☑ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☑ 99

16. Drilling additives used? ☐ Yes ☑ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.

F. Fine sand, top _____ ft. MSL or 2.00 ft.

G. Filter pack, top _____ ft. MSL or 3.00 ft.

H. Screen joint, top _____ ft. MSL or 5.00 ft.

I. Well bottom _____ ft. MSL or 15.00 ft.

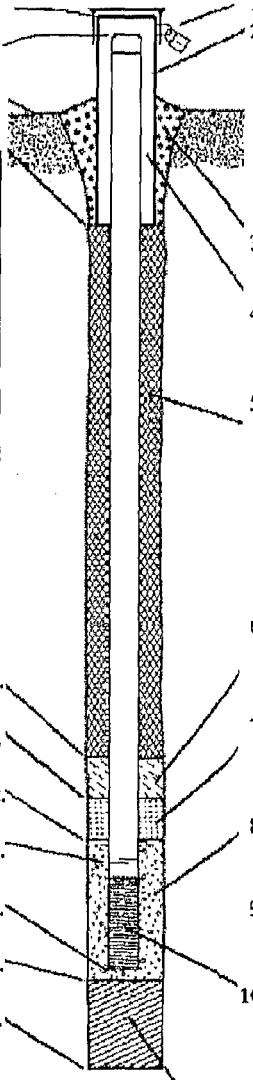
J. Filter pack, bottom _____ ft. MSL or 15.00 ft.

K. Borehole, bottom _____ ft. MSL or 15.00 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.375 in.

N. I.D. well casing 2.047 in.



1. Cap and lock? ☑ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☑ 04
_____ Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☑ 01
_____ Other ☐

4. Material between well casing and protective pipe:
Bentonite ☑ 30
_____ Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☑ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☑3/8 in. ☐1/2 in. Bentonite chips ☑ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. #40
b. Volume added 0.35 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #15
b. Volume added 0.70 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☑ 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ☑ 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer _____
c. Slot size: 0.10 in.
d. Slotted length: 10.00 ft.

11. Backfill material (below filter pack): None ☑ 14
_____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: REI Engineering, Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Hedlund DX - Falun	Local Grid Location of Well ☐ N. ☐ S. _____ ft. ☐ E. ☐ W. _____ ft.	Well Name: MW4R
Facility License, Permit or Monitoring No.: BRRTS#03-07-000151	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 807049540	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 09 / 24 / 2018 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 38 N, R. 17 ☐ E ☑ W	Well Installed By: Name (first, last) and Firm: Gestra Engineering, Inc
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.00 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☑ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☑ 99

16. Drilling additives used? ☐ Yes ☑ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.

F. Fine sand, top _____ ft. MSL or 2.00 ft.

G. Filter pack, top _____ ft. MSL or 3.00 ft.

H. Screen joint, top _____ ft. MSL or 5.00 ft.

I. Well bottom _____ ft. MSL or 15.00 ft.

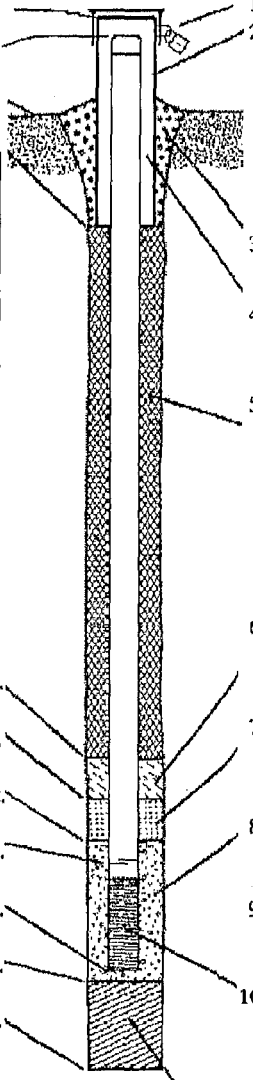
J. Filter pack, bottom _____ ft. MSL or 15.00 ft.

K. Borehole, bottom _____ ft. MSL or 15.00 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.375 in.

N. I.D. well casing 2.047 in.



1. Cap and lock? ☑ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☑ 04
Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☑ 01
Other ☐ _____

4. Material between well casing and protective pipe:
Bentonite ☑ 30
Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☑ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite chips ☑ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. #40
b. Volume added 0.35 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #15
b. Volume added 0.70 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☑ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☑ 11
Continuous slot ☐ 01
Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.10 in.
d. Slotted length: 10.00 ft.

11. Backfill material (below filter pack): None ☑ 14
Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: REI Engineering, Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Hedlund DX - Falun	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW5R
Facility License, Permit or Monitoring No.: BRRTS#03-07-000151	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: ____ DNR Well ID No.: ____
Facility ID: 807049540	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 09 / 25 / 2018 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 38 N, R. 17 ☐ E ☑ W	Well Installed By: Name (first, last) and Firm: Gestra Engineering, Inc
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation ____ ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or 1.00 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☑ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☑ 99

16. Drilling additives used? ☐ Yes ☑ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top ____ ft. MSL or 1.00 ft.

F. Fine sand, top ____ ft. MSL or 2.00 ft.

G. Filter pack, top ____ ft. MSL or 3.00 ft.

H. Screen joint, top ____ ft. MSL or 5.00 ft.

I. Well bottom ____ ft. MSL or 15.00 ft.

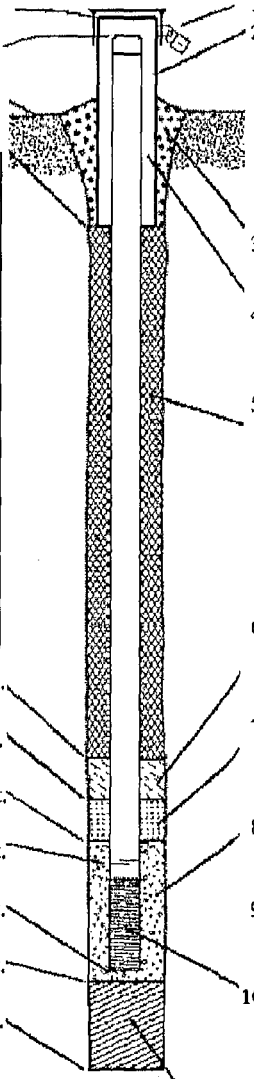
J. Filter pack, bottom ____ ft. MSL or 15.00 ft.

K. Borehole, bottom ____ ft. MSL or 15.00 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.375 in.

N. I.D. well casing 2.047 in.



1. Cap and lock? ☑ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☑ 04 Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 Concrete ☑ 01 Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☑ 30 Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☑ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite chips ☑ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. #40
b. Volume added 0.35 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #15
b. Volume added 0.70 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☑ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☑ 11 Continuous slot ☐ 01 Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.10 in.
d. Slotted length: 10.00 ft.

11. Backfill material (below filter pack): None ☑ 14 Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: REI Engineering, Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett County - Former Hedlund DX	BRRTS #03-07-000151	MW2R

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering, Inc	9/24/2018	9/24/2018	Hollow Stem Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW2R		0	8.25"

MW-2R

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat	Local Grid Location
State Plane	Long	N ☐ E ☐ S ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
807049540	Burnett	07	Town of Daniels

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	Blind Drilled										
				2											
				3											
				4											
				5											
				6											
				7											
				8											
				9											
				10											
				11											
				12											
				13											
				14											
				15	EOB Well set @ 15' BLS										
				16											
				17											
				18											
				19											
				20											

I herby certify that the information on this form is true and the correct to the best of my knowledge

Signature	Firm	
	REI Engineering, Inc.	4080 North 20th Avenue, Wausau, WI

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett County - Former Hedlund DX	BRRTS #03-07-000151	MW3R

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering, Inc	9/24/2018	9/24/2018	Hollow Stem Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW3R		0	8.25"

MW-3R

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat	Local Grid Location
State Plane	Long	N ☐ E ☐ S ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
807049540	Burnett	07	Town of Daniels

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0	Blind Drilled										
				15	EOB Well set @ 15' BLS										

I herby certify that the information on this form is true and the correct to the best of my knowledge

Signature	Firm
	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett County - Former Hedlund DX	BRRTS #03-07-000151	MW4R

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering, Inc	9/24/2018	9/24/2018	Hollow Stem Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW4R		0	8.25"

N-4R

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat	Local Grid Location
State Plane	Long	N ☐ E ☐ S ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
807049540	Burnett	07	Town of Daniels

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	Blind Drilled										
				15	EOB Well set @ 15' BLS										

I herby certify that the information on this form is true and the correct to the best of my knowledge

Signature	Firm	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of thes form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett County - Former Hedlund DX	BRRTS #03-07-000151	MW5R

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering, Inc	9/25/2018	9/25/2018	Hollow Stem Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW5R		0	8.25"

N-5R

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat	Local Grid Location
State Plane	Long	N ☐ E ☐ S ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
807049540	Burnett	07	Town of Daniels

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	Blind Drilled										
				2											
				3											
				4											
				5											
				6											
				7											
				8											
				9											
				10											
				11											
				12											
				13											
				14											
				15	EOB Well set @ 15' BLS										
				16											
				17											
				18											
				19											
				20											

I herby certify that the information on this form is true and the correct to the best of my knowledge

Signature	Firm
	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

APPENDIX B

SOIL DISPOSAL DOCUMENTATION

LINCOLN COUNTY LANDFILL 715-536-9636
Site: N4750 Landfill Lane, Merrill, WI 54452
Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452
OPERATING HOURS:
Monday-Friday
SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm
WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm
1st and 3rd Sat. 8:00 am - Noon

DATE: 10/23/2018 TICKET #: 254712 Vehicle #:
Time In: 11:16 AM Time Out: 11:23 AM

BILL TO: R.E.I.
HAULER : R.E.I.

JOB : 18 - 62 B - REI#7367axuc Hedlund DX, Falun
PO# : REI job #7367axuc
$26 ton exempt (Con43) 1.21 tn
Gross: 20300 Tare: 17880 Net Weight: 2420

Scale Notes: Charge Transaction

HAVE A NICE DAY!

Customer Signature _____
Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

APPENDIX C

GROUNDWATER ANALYTICAL LABORATORY REPORTS

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

October 09, 2018

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

RE: Project: 7367 HEDLUND DX
Pace Project No.: 40176769

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 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: 7367 HEDLUND DX
Pace Project No.: 40176769

Minnesota Certification IDs

1700 Elm Street SE, 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 DW Certification #: MN00064
Arkansas WW 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
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
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
Wyoming UST Certification #: via A2LA 2926.01

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: 7367 HEDLUND DX
Pace Project No.: 40176769

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40176769001	**MW1**	Water	09/25/18 07:48	09/29/18 08:05
40176769002	**MW2R**	Water	09/25/18 08:04	09/29/18 08:05
40176769003	**MW3R**	Water	09/25/18 07:35	09/29/18 08:05
40176769004	**MW4R**	Water	09/25/18 08:25	09/29/18 08:05
40176769005	**MW5R**	Water	09/25/18 10:07	09/29/18 08:05
40176769006	**MW6**	Water	09/25/18 08:50	09/29/18 08:05
40176769007	**MW7**	Water	09/25/18 08:56	09/29/18 08:05
40176769008	**MW8**	Water	09/25/18 09:00	09/29/18 08:05
40176769009	**MW9**	Water	09/25/18 09:05	09/29/18 08:05
40176769010	**MW10**	Water	09/25/18 08:23	09/29/18 08:05
40176769011	**MW11**	Water	09/25/18 08:01	09/29/18 08:05
40176769012	**BAITSHOP**	Water	09/25/18 09:22	09/29/18 08:05
40176769013	**BOBS SERVICE**	Water	09/25/18 09:39	09/29/18 08:05

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 7367 HEDLUND DX
Pace Project No.: 40176769

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40176769001	**MW1**	WI MOD GRO	ALD	10	PASI-G
40176769002	**MW2R**	WI MOD GRO	ALD	10	PASI-G
40176769003	**MW3R**	WI MOD GRO	ALD	10	PASI-G
40176769004	**MW4R**	WI MOD GRO	ALD	10	PASI-G
40176769005	**MW5R**	WI MOD GRO	ALD	10	PASI-G
40176769006	**MW6**	WI MOD GRO	ALD	10	PASI-G
40176769007	**MW7**	WI MOD GRO	ALD	10	PASI-G
40176769008	**MW8**	WI MOD GRO	ALD	10	PASI-G
40176769009	**MW9**	WI MOD GRO	ALD	10	PASI-G
40176769010	**MW10**	WI MOD GRO	ALD	10	PASI-G
40176769011	**MW11**	WI MOD GRO	ALD	10	PASI-G
40176769012	**BAITSHOP**	EPA 524.2	AEZ	62	PASI-M
40176769013	**BOBS SERVICE**	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: 7367 HEDLUND DX
Pace Project No.: 40176769

Sample: MW1 **Lab ID: 40176769001** Collected: 09/25/18 07:48 Received: 09/29/18 08:05 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		10/03/18 11:30	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 11:30	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		10/03/18 11:30	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		10/03/18 11:30	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		10/03/18 11:30	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		10/03/18 11:30	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 11:30	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		10/03/18 11:30	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		10/03/18 11:30	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/03/18 11:30	98-08-8	

Sample: MW2R **Lab ID: 40176769002** Collected: 09/25/18 08:04 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**16.7**	ug/L	1.0	0.31	1		10/03/18 18:54	71-43-2	
Ethylbenzene	**3.6**	ug/L	1.1	0.33	1		10/03/18 18:54	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		10/03/18 18:54	1634-04-4	
Naphthalene	**0.53J**	ug/L	1.7	0.51	1		10/03/18 18:54	91-20-3	
Toluene	**1.3J**	ug/L	1.6	0.49	1		10/03/18 18:54	108-88-3	
1,2,4-Trimethylbenzene	**2.1**	ug/L	1.1	0.34	1		10/03/18 18:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 18:54	108-67-8	
m&p-Xylene	**8.1**	ug/L	2.2	0.66	1		10/03/18 18:54	179601-23-1	
o-Xylene	**1.3**	ug/L	1.0	0.32	1		10/03/18 18:54	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/03/18 18:54	98-08-8	

Sample: MW3R **Lab ID: 40176769003** Collected: 09/25/18 07:35 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**112**	ug/L	2.0	0.61	2		10/03/18 17:37	71-43-2	
Ethylbenzene	**20.7**	ug/L	2.2	0.66	2		10/03/18 17:37	100-41-4	
Methyl-tert-butyl ether	**<0.64**	ug/L	2.1	0.64	2		10/03/18 17:37	1634-04-4	
Naphthalene	**5.1**	ug/L	3.4	1.0	2		10/03/18 17:37	91-20-3	
Toluene	**4.9**	ug/L	3.3	0.98	2		10/03/18 17:37	108-88-3	
1,2,4-Trimethylbenzene	**9.8**	ug/L	2.3	0.68	2		10/03/18 17:37	95-63-6	
1,3,5-Trimethylbenzene	**2.4**	ug/L	2.2	0.66	2		10/03/18 17:37	108-67-8	
m&p-Xylene	**26.4**	ug/L	4.4	1.3	2		10/03/18 17:37	179601-23-1	
o-Xylene	**7.2**	ug/L	2.1	0.63	2		10/03/18 17:37	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: 7367 HEDLUND DX
Pace Project No.: 40176769

Sample: MW3R **Lab ID: 40176769003** Collected: 09/25/18 07:35 Received: 09/29/18 08:05 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)	101	%	80-120		2		10/03/18 17:37	98-08-8	

Sample: MW4R **Lab ID: 40176769004** Collected: 09/25/18 08:25 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**1600**	ug/L	25.5	7.6	25		10/03/18 16:20	71-43-2	
Ethylbenzene	**890**	ug/L	27.5	8.2	25		10/03/18 16:20	100-41-4	
Methyl-tert-butyl ether	**<8.0**	ug/L	26.8	8.0	25		10/03/18 16:20	1634-04-4	
Naphthalene	**280**	ug/L	42.0	12.6	25		10/03/18 16:20	91-20-3	
Toluene	**924**	ug/L	40.8	12.2	25		10/03/18 16:20	108-88-3	
1,2,4-Trimethylbenzene	**817**	ug/L	28.5	8.6	25		10/03/18 16:20	95-63-6	
1,3,5-Trimethylbenzene	**212**	ug/L	27.2	8.2	25		10/03/18 16:20	108-67-8	
m&p-Xylene	**3590**	ug/L	54.5	16.4	25		10/03/18 16:20	179601-23-1	
o-Xylene	**1590**	ug/L	26.2	7.9	25		10/03/18 16:20	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		25		10/03/18 16:20	98-08-8	

Sample: MW5R **Lab ID: 40176769005** Collected: 09/25/18 10:07 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**247**	ug/L	5.1	1.5	5		10/04/18 09:20	71-43-2	
Ethylbenzene	**267**	ug/L	5.5	1.6	5		10/04/18 09:20	100-41-4	
Methyl-tert-butyl ether	**3.5J**	ug/L	5.4	1.6	5		10/04/18 09:20	1634-04-4	
Naphthalene	**56.7**	ug/L	8.4	2.5	5		10/04/18 09:20	91-20-3	
Toluene	**57.8**	ug/L	8.2	2.4	5		10/04/18 09:20	108-88-3	
1,2,4-Trimethylbenzene	**334**	ug/L	5.7	1.7	5		10/04/18 09:20	95-63-6	
1,3,5-Trimethylbenzene	**107**	ug/L	5.4	1.6	5		10/04/18 09:20	108-67-8	
m&p-Xylene	**604**	ug/L	10.9	3.3	5		10/04/18 09:20	179601-23-1	
o-Xylene	**33.5**	ug/L	5.2	1.6	5		10/04/18 09:20	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		5		10/04/18 09:20	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: 7367 HEDLUND DX
Pace Project No.: 40176769

Sample: MW6 **Lab ID: 40176769006** Collected: 09/25/18 08:50 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**3.6**	ug/L	1.0	0.31	1		10/03/18 11:55	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 11:55	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		10/03/18 11:55	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		10/03/18 11:55	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		10/03/18 11:55	108-88-3	
1,2,4-Trimethylbenzene	**0.40J**	ug/L	1.1	0.34	1		10/03/18 11:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 11:55	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		10/03/18 11:55	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		10/03/18 11:55	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/03/18 11:55	98-08-8	

Sample: MW7 **Lab ID: 40176769007** Collected: 09/25/18 08:56 Received: 09/29/18 08:05 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		10/03/18 12:21	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 12:21	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		10/03/18 12:21	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		10/03/18 12:21	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		10/03/18 12:21	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		10/03/18 12:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 12:21	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		10/03/18 12:21	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		10/03/18 12:21	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/03/18 12:21	98-08-8	

Sample: MW8 **Lab ID: 40176769008** Collected: 09/25/18 09:00 Received: 09/29/18 08:05 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		10/03/18 12:47	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 12:47	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		10/03/18 12:47	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		10/03/18 12:47	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		10/03/18 12:47	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		10/03/18 12:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 12:47	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		10/03/18 12:47	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		10/03/18 12:47	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: 7367 HEDLUND DX
Pace Project No.: 40176769

Sample: MW8 **Lab ID: 40176769008** Collected: 09/25/18 09:00 Received: 09/29/18 08:05 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		10/03/18 12:47	98-08-8	

Sample: MW9 **Lab ID: 40176769009** Collected: 09/25/18 09:05 Received: 09/29/18 08:05 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		10/03/18 13:12	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 13:12	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		10/03/18 13:12	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		10/03/18 13:12	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		10/03/18 13:12	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		10/03/18 13:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 13:12	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		10/03/18 13:12	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		10/03/18 13:12	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/03/18 13:12	98-08-8	

Sample: MW10 **Lab ID: 40176769010** Collected: 09/25/18 08:23 Received: 09/29/18 08:05 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		10/03/18 13:38	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 13:38	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		10/03/18 13:38	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		10/03/18 13:38	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		10/03/18 13:38	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		10/03/18 13:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 13:38	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		10/03/18 13:38	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		10/03/18 13:38	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/03/18 13:38	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: 7367 HEDLUND DX
Pace Project No.: 40176769

Sample: MW11 **Lab ID: 40176769011** Collected: 09/25/18 08:01 Received: 09/29/18 08:05 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		10/03/18 14:03	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 14:03	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		10/03/18 14:03	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		10/03/18 14:03	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		10/03/18 14:03	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		10/03/18 14:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		10/03/18 14:03	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		10/03/18 14:03	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		10/03/18 14:03	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/03/18 14:03	98-08-8	

Sample: BAITSHOP **Lab ID: 40176769012** Collected: 09/25/18 09:22 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.12**	ug/L	0.41	0.12	1		10/08/18 13:37	71-43-2	
Bromobenzene	**<0.23**	ug/L	0.76	0.23	1		10/08/18 13:37	108-86-1	
Bromochloromethane	**<0.30**	ug/L	0.99	0.30	1		10/08/18 13:37	74-97-5	
Bromodichloromethane	**<0.15**	ug/L	0.50	0.15	1		10/08/18 13:37	75-27-4	
Bromoform	**<0.86**	ug/L	2.9	0.86	1		10/08/18 13:37	75-25-2	
Bromomethane	**<0.62**	ug/L	2.1	0.62	1		10/08/18 13:37	74-83-9	
n-Butylbenzene	**<0.14**	ug/L	0.47	0.14	1		10/08/18 13:37	104-51-8	
sec-Butylbenzene	**<0.20**	ug/L	0.68	0.20	1		10/08/18 13:37	135-98-8	
tert-Butylbenzene	**<0.14**	ug/L	0.46	0.14	1		10/08/18 13:37	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	0.67	0.20	1		10/08/18 13:37	56-23-5	
Chlorobenzene	**<0.12**	ug/L	0.40	0.12	1		10/08/18 13:37	108-90-7	
Chloroethane	**<0.14**	ug/L	0.47	0.14	1		10/08/18 13:37	75-00-3	
Chloroform	**<0.31**	ug/L	1.0	0.31	1		10/08/18 13:37	67-66-3	
Chloromethane	**<0.15**	ug/L	0.51	0.15	1		10/08/18 13:37	74-87-3	
2-Chlorotoluene	**<0.086**	ug/L	0.29	0.086	1		10/08/18 13:37	95-49-8	
4-Chlorotoluene	**<0.093**	ug/L	0.31	0.093	1		10/08/18 13:37	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	6.5	2.0	1		10/08/18 13:37	96-12-8	N2
Dibromochloromethane	**<0.24**	ug/L	0.81	0.24	1		10/08/18 13:37	124-48-1	
1,2-Dibromoethane (EDB)	**<0.17**	ug/L	0.57	0.17	1		10/08/18 13:37	106-93-4	N2
Dibromomethane	**<0.23**	ug/L	0.76	0.23	1		10/08/18 13:37	74-95-3	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.58	0.18	1		10/08/18 13:37	95-50-1	
1,3-Dichlorobenzene	**<0.14**	ug/L	0.46	0.14	1		10/08/18 13:37	541-73-1	
1,4-Dichlorobenzene	**<0.086**	ug/L	0.29	0.086	1		10/08/18 13:37	106-46-7	
Dichlorodifluoromethane	**<0.26**	ug/L	0.87	0.26	1		10/08/18 13:37	75-71-8	
1,1-Dichloroethane	**<0.16**	ug/L	0.55	0.16	1		10/08/18 13:37	75-34-3	
1,2-Dichloroethane	**<0.13**	ug/L	0.45	0.13	1		10/08/18 13:37	107-06-2	
1,1-Dichloroethene	**<0.19**	ug/L	0.62	0.19	1		10/08/18 13:37	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 7367 HEDLUND DX
Pace Project No.: 40176769

Sample: BAITSHOP **Lab ID: 40176769012** Collected: 09/25/18 09:22 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
cis-1,2-Dichloroethene	**<0.14**	ug/L	0.46	0.14	1		10/08/18 13:37	156-59-2	
trans-1,2-Dichloroethene	**<0.18**	ug/L	0.59	0.18	1		10/08/18 13:37	156-60-5	
1,2-Dichloropropane	**<0.19**	ug/L	0.64	0.19	1		10/08/18 13:37	78-87-5	
1,3-Dichloropropane	**<0.11**	ug/L	0.35	0.11	1		10/08/18 13:37	142-28-9	N2
2,2-Dichloropropane	**<0.16**	ug/L	0.53	0.16	1		10/08/18 13:37	594-20-7	
1,1-Dichloropropene	**<0.10**	ug/L	0.35	0.10	1		10/08/18 13:37	563-58-6	
cis-1,3-Dichloropropene	**<0.21**	ug/L	0.69	0.21	1		10/08/18 13:37	10061-01-5	
trans-1,3-Dichloropropene	**<0.24**	ug/L	0.81	0.24	1		10/08/18 13:37	10061-02-6	
Ethylbenzene	**<0.11**	ug/L	0.36	0.11	1		10/08/18 13:37	100-41-4	
Hexachloro-1,3-butadiene	**<0.28**	ug/L	0.92	0.28	1		10/08/18 13:37	87-68-3	
Isopropylbenzene (Cumene)	**<0.17**	ug/L	0.57	0.17	1		10/08/18 13:37	98-82-8	
p-Isopropyltoluene	**<0.21**	ug/L	0.71	0.21	1		10/08/18 13:37	99-87-6	N2
Methylene Chloride	**<0.97**	ug/L	3.2	0.97	1		10/08/18 13:37	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	0.56	0.17	1		10/08/18 13:37	1634-04-4	
Naphthalene	**<0.18**	ug/L	0.60	0.18	1		10/08/18 13:37	91-20-3	
n-Propylbenzene	**<0.13**	ug/L	0.44	0.13	1		10/08/18 13:37	103-65-1	
Styrene	**<0.18**	ug/L	0.59	0.18	1		10/08/18 13:37	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.12**	ug/L	0.39	0.12	1		10/08/18 13:37	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.17**	ug/L	0.56	0.17	1		10/08/18 13:37	79-34-5	
Tetrachloroethene	**<0.17**	ug/L	0.56	0.17	1		10/08/18 13:37	127-18-4	
Toluene	**<0.078**	ug/L	0.26	0.078	1		10/08/18 13:37	108-88-3	
1,2,3-Trichlorobenzene	**<0.25**	ug/L	0.83	0.25	1		10/08/18 13:37	87-61-6	
1,2,4-Trichlorobenzene	**<0.19**	ug/L	0.64	0.19	1		10/08/18 13:37	120-82-1	
1,1,1-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		10/08/18 13:37	71-55-6	
1,1,2-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		10/08/18 13:37	79-00-5	
Trichloroethene	**<0.12**	ug/L	0.39	0.12	1		10/08/18 13:37	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	0.70	0.21	1		10/08/18 13:37	75-69-4	
1,2,3-Trichloropropane	**<0.39**	ug/L	1.3	0.39	1		10/08/18 13:37	96-18-4	
1,2,4-Trimethylbenzene	**<0.23**	ug/L	0.76	0.23	1		10/08/18 13:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.15**	ug/L	0.49	0.15	1		10/08/18 13:37	108-67-8	N2
Vinyl chloride	**<0.086**	ug/L	0.29	0.086	1		10/08/18 13:37	75-01-4	
Xylene (Total)	**<0.30**	ug/L	1.0	0.30	1		10/08/18 13:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	75-125		1		10/08/18 13:37	460-00-4	
Toluene-d8 (S)	106	%.	75-125		1		10/08/18 13:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		10/08/18 13:37	17060-07-0	

Sample: BOBS SERVICE **Lab ID: 40176769013** Collected: 09/25/18 09:39 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.12**	ug/L	0.41	0.12	1		10/08/18 14:01	71-43-2	
Bromobenzene	**<0.23**	ug/L	0.76	0.23	1		10/08/18 14:01	108-86-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 7367 HEDLUND DX
Pace Project No.: 40176769

Sample: BOBS SERVICE **Lab ID: 40176769013** Collected: 09/25/18 09:39 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Bromochloromethane	**<0.30**	ug/L	0.99	0.30	1		10/08/18 14:01	74-97-5	
Bromodichloromethane	**<0.15**	ug/L	0.50	0.15	1		10/08/18 14:01	75-27-4	
Bromoform	**<0.86**	ug/L	2.9	0.86	1		10/08/18 14:01	75-25-2	
Bromomethane	**<0.62**	ug/L	2.1	0.62	1		10/08/18 14:01	74-83-9	
n-Butylbenzene	**<0.14**	ug/L	0.47	0.14	1		10/08/18 14:01	104-51-8	
sec-Butylbenzene	**<0.20**	ug/L	0.68	0.20	1		10/08/18 14:01	135-98-8	
tert-Butylbenzene	**<0.14**	ug/L	0.46	0.14	1		10/08/18 14:01	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	0.67	0.20	1		10/08/18 14:01	56-23-5	
Chlorobenzene	**<0.12**	ug/L	0.40	0.12	1		10/08/18 14:01	108-90-7	
Chloroethane	**<0.14**	ug/L	0.47	0.14	1		10/08/18 14:01	75-00-3	
Chloroform	**<0.31**	ug/L	1.0	0.31	1		10/08/18 14:01	67-66-3	
Chloromethane	**<0.15**	ug/L	0.51	0.15	1		10/08/18 14:01	74-87-3	
2-Chlorotoluene	**<0.086**	ug/L	0.29	0.086	1		10/08/18 14:01	95-49-8	
4-Chlorotoluene	**<0.093**	ug/L	0.31	0.093	1		10/08/18 14:01	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	6.5	2.0	1		10/08/18 14:01	96-12-8	N2
Dibromochloromethane	**<0.24**	ug/L	0.81	0.24	1		10/08/18 14:01	124-48-1	
1,2-Dibromoethane (EDB)	**<0.17**	ug/L	0.57	0.17	1		10/08/18 14:01	106-93-4	N2
Dibromomethane	**<0.23**	ug/L	0.76	0.23	1		10/08/18 14:01	74-95-3	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.58	0.18	1		10/08/18 14:01	95-50-1	
1,3-Dichlorobenzene	**<0.14**	ug/L	0.46	0.14	1		10/08/18 14:01	541-73-1	
1,4-Dichlorobenzene	**<0.086**	ug/L	0.29	0.086	1		10/08/18 14:01	106-46-7	
Dichlorodifluoromethane	**<0.26**	ug/L	0.87	0.26	1		10/08/18 14:01	75-71-8	
1,1-Dichloroethane	**<0.16**	ug/L	0.55	0.16	1		10/08/18 14:01	75-34-3	
1,2-Dichloroethane	**<0.13**	ug/L	0.45	0.13	1		10/08/18 14:01	107-06-2	
1,1-Dichloroethene	**<0.19**	ug/L	0.62	0.19	1		10/08/18 14:01	75-35-4	
cis-1,2-Dichloroethene	**<0.14**	ug/L	0.46	0.14	1		10/08/18 14:01	156-59-2	
trans-1,2-Dichloroethene	**<0.18**	ug/L	0.59	0.18	1		10/08/18 14:01	156-60-5	
1,2-Dichloropropane	**<0.19**	ug/L	0.64	0.19	1		10/08/18 14:01	78-87-5	
1,3-Dichloropropane	**<0.11**	ug/L	0.35	0.11	1		10/08/18 14:01	142-28-9	N2
2,2-Dichloropropane	**<0.16**	ug/L	0.53	0.16	1		10/08/18 14:01	594-20-7	
1,1-Dichloropropene	**<0.10**	ug/L	0.35	0.10	1		10/08/18 14:01	563-58-6	
cis-1,3-Dichloropropene	**<0.21**	ug/L	0.69	0.21	1		10/08/18 14:01	10061-01-5	
trans-1,3-Dichloropropene	**<0.24**	ug/L	0.81	0.24	1		10/08/18 14:01	10061-02-6	
Ethylbenzene	**<0.11**	ug/L	0.36	0.11	1		10/08/18 14:01	100-41-4	
Hexachloro-1,3-butadiene	**<0.28**	ug/L	0.92	0.28	1		10/08/18 14:01	87-68-3	
Isopropylbenzene (Cumene)	**<0.17**	ug/L	0.57	0.17	1		10/08/18 14:01	98-82-8	
p-Isopropyltoluene	**<0.21**	ug/L	0.71	0.21	1		10/08/18 14:01	99-87-6	N2
Methylene Chloride	**<0.97**	ug/L	3.2	0.97	1		10/08/18 14:01	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	0.56	0.17	1		10/08/18 14:01	1634-04-4	
Naphthalene	**<0.18**	ug/L	0.60	0.18	1		10/08/18 14:01	91-20-3	
n-Propylbenzene	**<0.13**	ug/L	0.44	0.13	1		10/08/18 14:01	103-65-1	
Styrene	**<0.18**	ug/L	0.59	0.18	1		10/08/18 14:01	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.12**	ug/L	0.39	0.12	1		10/08/18 14:01	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.17**	ug/L	0.56	0.17	1		10/08/18 14:01	79-34-5	
Tetrachloroethene	**<0.17**	ug/L	0.56	0.17	1		10/08/18 14:01	127-18-4	
Toluene	**<0.078**	ug/L	0.26	0.078	1		10/08/18 14:01	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 7367 HEDLUND DX
Pace Project No.: 40176769

Sample: BOBS SERVICE **Lab ID: 40176769013** Collected: 09/25/18 09:39 Received: 09/29/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
1,2,3-Trichlorobenzene	**<0.25**	ug/L	0.83	0.25	1		10/08/18 14:01	87-61-6	
1,2,4-Trichlorobenzene	**<0.19**	ug/L	0.64	0.19	1		10/08/18 14:01	120-82-1	
1,1,1-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		10/08/18 14:01	71-55-6	
1,1,2-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		10/08/18 14:01	79-00-5	
Trichloroethene	**<0.12**	ug/L	0.39	0.12	1		10/08/18 14:01	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	0.70	0.21	1		10/08/18 14:01	75-69-4	
1,2,3-Trichloropropane	**<0.39**	ug/L	1.3	0.39	1		10/08/18 14:01	96-18-4	
1,2,4-Trimethylbenzene	**<0.23**	ug/L	0.76	0.23	1		10/08/18 14:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.15**	ug/L	0.49	0.15	1		10/08/18 14:01	108-67-8	N2
Vinyl chloride	**<0.086**	ug/L	0.29	0.086	1		10/08/18 14:01	75-01-4	
Xylene (Total)	**<0.30**	ug/L	1.0	0.30	1		10/08/18 14:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	75-125		1		10/08/18 14:01	460-00-4	
Toluene-d8 (S)	103	%.	75-125		1		10/08/18 14:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		10/08/18 14:01	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 7367 HEDLUND DX
Pace Project No.: 40176769

QC Batch: 302012 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40176769001, 40176769002, 40176769003, 40176769004, 40176769005, 40176769006, 40176769007, 40176769008, 40176769009, 40176769010, 40176769011

METHOD BLANK: 1763903 Matrix: Water
Associated Lab Samples: 40176769001, 40176769002, 40176769003, 40176769004, 40176769005, 40176769006, 40176769007, 40176769008, 40176769009, 40176769010, 40176769011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	10/03/18 08:31	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	10/03/18 08:31	
Benzene	ug/L	<0.31	1.0	10/03/18 08:31	
Ethylbenzene	ug/L	<0.33	1.1	10/03/18 08:31	
m&p-Xylene	ug/L	<0.66	2.2	10/03/18 08:31	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	10/03/18 08:31	
Naphthalene	ug/L	<0.51	1.7	10/03/18 08:31	
o-Xylene	ug/L	<0.32	1.0	10/03/18 08:31	
Toluene	ug/L	<0.49	1.6	10/03/18 08:31	
a,a,a-Trifluorotoluene (S)	%	100	80-120	10/03/18 08:31	

LABORATORY CONTROL SAMPLE & LCSD: 1763904 1763905

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	20.6	20.9	103	104	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	20.1	20.3	101	102	80-120	1	20	
Benzene	ug/L	20	20.2	20.3	101	101	80-120	0	20	
Ethylbenzene	ug/L	20	20.6	20.7	103	104	80-120	1	20	
m&p-Xylene	ug/L	40	40.8	41.0	102	102	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	19.2	19.3	96	96	80-120	1	20	
Naphthalene	ug/L	20	19.4	20.0	97	100	80-120	3	20	
o-Xylene	ug/L	20	20.4	20.4	102	102	80-120	0	20	
Toluene	ug/L	20	20.6	20.7	103	104	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1764745 1764746

Parameter	Units	40176769005 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	334	100	100	428	454	95	121	51-160	6	20	
1,3,5-Trimethylbenzene	ug/L	107	100	100	205	215	98	108	56-146	5	20	
Benzene	ug/L	247	100	100	332	349	85	102	71-137	5	20	
Ethylbenzene	ug/L	267	100	100	360	378	93	111	71-141	5	20	
m&p-Xylene	ug/L	604	200	200	783	824	90	110	66-141	5	20	
Methyl-tert-butyl ether	ug/L	3.5J	100	100	93.6	95.0	90	92	80-120	2	20	
Naphthalene	ug/L	56.7	100	100	148	156	91	99	67-138	5	20	
o-Xylene	ug/L	33.5	100	100	130	135	97	101	75-133	3	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: 7367 HEDLUND DX
Pace Project No.: 40176769

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1764745 1764746

Parameter	Units	40176769005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	57.8	100	100	154	160	96	102	76-134	3	20	
a,a,a-Trifluorotoluene (S)	%						99	98	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
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7367 HEDLUND DX
Pace Project No.: 40176769

QC Batch: 567835 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40176769012, 40176769013

METHOD BLANK: 3081726 Matrix: Water
Associated Lab Samples: 40176769012, 40176769013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.12	0.39	10/08/18 12:24	
1,1,1-Trichloroethane	ug/L	<0.19	0.62	10/08/18 12:24	MN
1,1,2,2-Tetrachloroethane	ug/L	<0.17	0.56	10/08/18 12:24	
1,1,2-Trichloroethane	ug/L	<0.19	0.62	10/08/18 12:24	
1,1-Dichloroethane	ug/L	<0.16	0.55	10/08/18 12:24	
1,1-Dichloroethene	ug/L	<0.19	0.62	10/08/18 12:24	
1,1-Dichloropropene	ug/L	<0.10	0.35	10/08/18 12:24	MN
1,2,3-Trichlorobenzene	ug/L	<0.25	0.83	10/08/18 12:24	MN
1,2,3-Trichloropropane	ug/L	<0.39	1.3	10/08/18 12:24	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.64	10/08/18 12:24	MN
1,2,4-Trimethylbenzene	ug/L	<0.23	0.76	10/08/18 12:24	MN
1,2-Dibromo-3-chloropropane	ug/L	<2.0	6.5	10/08/18 12:24	N2
1,2-Dibromoethane (EDB)	ug/L	<0.17	0.57	10/08/18 12:24	MN,N2
1,2-Dichlorobenzene	ug/L	<0.18	0.58	10/08/18 12:24	
1,2-Dichloroethane	ug/L	<0.13	0.45	10/08/18 12:24	
1,2-Dichloropropane	ug/L	<0.19	0.64	10/08/18 12:24	
1,3,5-Trimethylbenzene	ug/L	<0.15	0.49	10/08/18 12:24	N2
1,3-Dichlorobenzene	ug/L	<0.14	0.46	10/08/18 12:24	
1,3-Dichloropropane	ug/L	<0.11	0.35	10/08/18 12:24	N2
1,4-Dichlorobenzene	ug/L	<0.086	0.29	10/08/18 12:24	
2,2-Dichloropropane	ug/L	<0.16	0.53	10/08/18 12:24	
2-Chlorotoluene	ug/L	<0.086	0.29	10/08/18 12:24	
4-Chlorotoluene	ug/L	<0.093	0.31	10/08/18 12:24	MN
Benzene	ug/L	<0.12	0.41	10/08/18 12:24	
Bromobenzene	ug/L	<0.23	0.76	10/08/18 12:24	
Bromochloromethane	ug/L	<0.30	0.99	10/08/18 12:24	
Bromodichloromethane	ug/L	<0.15	0.50	10/08/18 12:24	
Bromoform	ug/L	<0.86	2.9	10/08/18 12:24	
Bromomethane	ug/L	<0.62	2.1	10/08/18 12:24	
Carbon tetrachloride	ug/L	<0.20	0.67	10/08/18 12:24	
Chlorobenzene	ug/L	<0.12	0.40	10/08/18 12:24	
Chloroethane	ug/L	<0.14	0.47	10/08/18 12:24	
Chloroform	ug/L	<0.31	1.0	10/08/18 12:24	
Chloromethane	ug/L	<0.15	0.51	10/08/18 12:24	
cis-1,2-Dichloroethene	ug/L	<0.14	0.46	10/08/18 12:24	
cis-1,3-Dichloropropene	ug/L	<0.21	0.69	10/08/18 12:24	MN
Dibromochloromethane	ug/L	<0.24	0.81	10/08/18 12:24	MN
Dibromomethane	ug/L	<0.23	0.76	10/08/18 12:24	
Dichlorodifluoromethane	ug/L	<0.26	0.87	10/08/18 12:24	
Ethylbenzene	ug/L	<0.11	0.36	10/08/18 12:24	
Hexachloro-1,3-butadiene	ug/L	<0.28	0.92	10/08/18 12:24	

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: 7367 HEDLUND DX
Pace Project No.: 40176769

METHOD BLANK: 3081726 Matrix: Water
Associated Lab Samples: 40176769012, 40176769013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.17	0.57	10/08/18 12:24	MN
Methyl-tert-butyl ether	ug/L	<0.17	0.56	10/08/18 12:24	
Methylene Chloride	ug/L	<0.97	3.2	10/08/18 12:24	
n-Butylbenzene	ug/L	<0.14	0.47	10/08/18 12:24	MN
n-Propylbenzene	ug/L	<0.13	0.44	10/08/18 12:24	MN
Naphthalene	ug/L	<0.18	0.60	10/08/18 12:24	
p-Isopropyltoluene	ug/L	<0.21	0.71	10/08/18 12:24	MN,N2
sec-Butylbenzene	ug/L	<0.20	0.68	10/08/18 12:24	MN
Styrene	ug/L	<0.18	0.59	10/08/18 12:24	MN
tert-Butylbenzene	ug/L	<0.14	0.46	10/08/18 12:24	MN
Tetrachloroethene	ug/L	<0.17	0.56	10/08/18 12:24	
Toluene	ug/L	<0.078	0.26	10/08/18 12:24	
trans-1,2-Dichloroethene	ug/L	<0.18	0.59	10/08/18 12:24	
trans-1,3-Dichloropropene	ug/L	<0.24	0.81	10/08/18 12:24	MN
Trichloroethene	ug/L	<0.12	0.39	10/08/18 12:24	
Trichlorofluoromethane	ug/L	<0.21	0.70	10/08/18 12:24	
Vinyl chloride	ug/L	<0.086	0.29	10/08/18 12:24	
Xylene (Total)	ug/L	<0.30	1.0	10/08/18 12:24	
1,2-Dichloroethane-d4 (S)	%.	96	75-125	10/08/18 12:24	
4-Bromofluorobenzene (S)	%.	99	75-125	10/08/18 12:24	
Toluene-d8 (S)	%.	100	75-125	10/08/18 12:24	

LABORATORY CONTROL SAMPLE: 3081727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.5	95	70-130	
1,1,1-Trichloroethane	ug/L	10	9.5	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.2	92	70-130	
1,1,2-Trichloroethane	ug/L	10	9.6	96	70-130	
1,1-Dichloroethane	ug/L	10	9.1	91	70-130	
1,1-Dichloroethene	ug/L	10	9.1	91	70-130	
1,1-Dichloropropene	ug/L	10	9.0	90	70-130	
1,2,3-Trichlorobenzene	ug/L	10	9.0	90	70-130	
1,2,3-Trichloropropane	ug/L	10	9.4	94	70-130	
1,2,4-Trichlorobenzene	ug/L	10	8.8	88	70-130	
1,2,4-Trimethylbenzene	ug/L	10	8.6	86	70-130	
1,2-Dibromo-3-chloropropane	ug/L	25	23.1	92	70-130	N2
1,2-Dibromoethane (EDB)	ug/L	10	8.8	88	70-130	N2
1,2-Dichlorobenzene	ug/L	10	9.5	95	70-130	
1,2-Dichloroethane	ug/L	10	8.3	83	70-130	
1,2-Dichloropropane	ug/L	10	9.4	94	70-130	
1,3,5-Trimethylbenzene	ug/L	10	8.3	83	70-130	N2
1,3-Dichlorobenzene	ug/L	10	9.8	98	70-130	
1,3-Dichloropropane	ug/L	10	9.2	92	70-130	N2

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: 7367 HEDLUND DX
Pace Project No.: 40176769

LABORATORY CONTROL SAMPLE: 3081727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	9.3	93	70-130	
2,2-Dichloropropane	ug/L	10	9.6	96	70-130	
2-Chlorotoluene	ug/L	10	9.8	98	70-130	
4-Chlorotoluene	ug/L	10	8.7	87	70-130	
Benzene	ug/L	10	8.7	87	70-130	
Bromobenzene	ug/L	10	9.3	93	70-130	
Bromochloromethane	ug/L	10	9.0	90	70-130	
Bromodichloromethane	ug/L	10	9.6	96	70-130	
Bromoform	ug/L	10	10.6	106	70-130	
Bromomethane	ug/L	10	9.7	97	70-130	
Carbon tetrachloride	ug/L	10	10.2	102	70-130	
Chlorobenzene	ug/L	10	9.1	91	70-130	
Chloroethane	ug/L	10	10.2	102	70-130	
Chloroform	ug/L	10	8.3	83	70-130	
Chloromethane	ug/L	10	8.7	87	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.0	90	70-130	
cis-1,3-Dichloropropene	ug/L	10	8.9	89	70-130	
Dibromochloromethane	ug/L	10	10.2	102	70-130	
Dibromomethane	ug/L	10	9.7	97	70-130	
Dichlorodifluoromethane	ug/L	10	8.9	89	70-130	
Ethylbenzene	ug/L	10	9.3	93	70-130	
Hexachloro-1,3-butadiene	ug/L	10	10.8	108	70-130	
Isopropylbenzene (Cumene)	ug/L	10	9.1	91	70-130	
Methyl-tert-butyl ether	ug/L	10	9.6	96	70-130	
Methylene Chloride	ug/L	10	8.2	82	70-130	
n-Butylbenzene	ug/L	10	8.7	87	70-130	
n-Propylbenzene	ug/L	10	8.7	87	70-130	
Naphthalene	ug/L	10	8.3	83	70-130	
p-Isopropyltoluene	ug/L	10	9.0	90	70-130	N2
sec-Butylbenzene	ug/L	10	8.8	88	70-130	
Styrene	ug/L	10	8.6	86	70-130	
tert-Butylbenzene	ug/L	10	8.8	88	70-130	
Tetrachloroethene	ug/L	10	10	100	70-130	
Toluene	ug/L	10	8.9	89	70-130	
trans-1,2-Dichloroethene	ug/L	10	8.5	85	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.2	92	70-130	
Trichloroethene	ug/L	10	9.7	97	70-130	
Trichlorofluoromethane	ug/L	10	9.8	98	70-130	
Vinyl chloride	ug/L	10	9.6	96	70-130	
Xylene (Total)	ug/L	30	26.5	88	70-130	
1,2-Dichloroethane-d4 (S)	%.			96	75-125	
4-Bromofluorobenzene (S)	%.			97	75-125	
Toluene-d8 (S)	%.			100	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: 7367 HEDLUND DX
Pace Project No.: 40176769

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083082 3083083

Parameter	Units	10450365011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.0	19.0	95	95	70-130	0	20	
1,1,1-Trichloroethane	ug/L	ND	20	20	19.8	19.8	99	99	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.3	18.0	87	90	70-130	4	20	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.3	94	96	70-130	3	20	
1,1-Dichloroethane	ug/L	ND	20	20	19.5	19.6	98	98	70-130	0	20	
1,1-Dichloroethene	ug/L	ND	20	20	22.1	22.1	110	111	70-130	0	20	
1,1-Dichloropropene	ug/L	ND	20	20	19.1	18.9	95	95	70-130	1	20	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.1	18.5	91	93	70-130	2	20	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.4	17.5	87	87	70-130	0	20	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.8	18.5	89	92	70-130	4	20	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.6	17.9	88	89	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	45.2	46.3	90	93	70-130	2	20	N2
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.8	18.3	89	91	70-130	3	20	N2
1,2-Dichlorobenzene	ug/L	ND	20	20	18.6	19.1	93	95	70-130	3	20	
1,2-Dichloroethane	ug/L	ND	20	20	16.3	16.8	81	84	70-130	3	20	
1,2-Dichloropropane	ug/L	ND	20	20	19.2	19.3	96	97	70-130	1	20	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.2	17.7	86	88	70-130	2	20	N2
1,3-Dichlorobenzene	ug/L	ND	20	20	19.6	19.8	98	99	70-130	1	20	
1,3-Dichloropropane	ug/L	ND	20	20	18.0	18.6	90	93	70-130	3	20	N2
1,4-Dichlorobenzene	ug/L	ND	20	20	18.1	18.9	90	95	70-130	5	20	
2,2-Dichloropropane	ug/L	ND	20	20	20.9	21.0	104	105	70-130	1	20	
2-Chlorotoluene	ug/L	ND	20	20	20.4	20.6	102	103	70-130	1	20	
4-Chlorotoluene	ug/L	ND	20	20	17.6	17.9	88	90	70-130	2	20	
Benzene	ug/L	ND	20	20	19.0	19.1	95	95	70-130	1	20	
Bromobenzene	ug/L	ND	20	20	18.7	19.1	94	95	70-130	2	20	
Bromochloromethane	ug/L	ND	20	20	18.2	19.2	91	96	70-130	6	20	
Bromodichloromethane	ug/L	ND	20	20	19.1	19.2	95	96	70-130	1	20	
Bromoform	ug/L	ND	20	20	19.8	20.1	99	100	70-130	2	20	
Bromomethane	ug/L	ND	20	20	19.4	20.5	97	102	70-130	5	20	
Carbon tetrachloride	ug/L	ND	20	20	20.2	19.8	101	99	70-130	2	20	E
Chlorobenzene	ug/L	ND	20	20	18.6	18.9	93	95	70-130	2	20	
Chloroethane	ug/L	ND	20	20	18.9	20.0	94	100	70-130	6	20	
Chloroform	ug/L	ND	20	20	17.9	17.7	89	89	70-130	1	20	
Chloromethane	ug/L	ND	20	20	16.8	18.8	84	94	70-130	12	20	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.1	19.1	95	95	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.5	17.8	88	89	70-130	2	20	
Dibromochloromethane	ug/L	ND	20	20	19.0	19.5	95	97	70-130	3	20	
Dibromomethane	ug/L	ND	20	20	19.1	19.4	96	97	70-130	1	20	
Dichlorodifluoromethane	ug/L	ND	20	20	19.0	20.1	95	101	70-130	6	20	
Ethylbenzene	ug/L	ND	20	20	20.4	20.4	102	102	70-130	0	20	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.6	22.5	113	113	70-130	0	20	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.4	19.4	97	97	70-130	0	20	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.6	19.4	93	97	70-130	5	20	
Methylene Chloride	ug/L	ND	20	20	16.6	16.6	83	83	70-130	0	20	
n-Butylbenzene	ug/L	ND	20	20	18.7	19.0	93	95	70-130	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: 7367 HEDLUND DX
Pace Project No.: 40176769

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083082 3083083

Parameter	Units	10450365011 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	ND	20	20	18.3	18.7	92	94	70-130	2	20	
Naphthalene	ug/L	ND	20	20	16.3	17.1	82	86	70-130	5	20	
p-Isopropyltoluene	ug/L	ND	20	20	19.0	19.1	95	96	70-130	1	20	N2
sec-Butylbenzene	ug/L	ND	20	20	18.7	19.0	93	95	70-130	2	20	
Styrene	ug/L	ND	20	20	18.0	18.4	90	92	70-130	2	20	
tert-Butylbenzene	ug/L	ND	20	20	18.4	18.5	92	93	70-130	0	20	
Tetrachloroethene	ug/L	ND	20	20	22.6	22.8	113	114	70-130	1	20	
Toluene	ug/L	ND	20	20	18.7	18.6	93	93	70-130	0	20	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.5	19.3	97	97	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.9	18.4	90	92	70-130	2	20	
Trichloroethene	ug/L	ND	20	20	18.9	19.0	94	95	70-130	0	20	
Trichlorofluoromethane	ug/L	ND	20	20	19.7	20.6	98	103	70-130	5	20	
Vinyl chloride	ug/L	ND	20	20	19.9	21.4	99	107	70-130	7	20	
Xylene (Total)	ug/L	ND	60	60	55.9	56.8	93	95	70-130	2	20	
1,2-Dichloroethane-d4 (S)	%.						92	95	75-125			
4-Bromofluorobenzene (S)	%.						97	97	75-125			
Toluene-d8 (S)	%.						96	97	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

QUALIFIERS

Project: 7367 HEDLUND DX
Pace Project No.: 40176769

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

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7367 HEDLUND DX
Pace Project No.: 40176769

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40176769001	**MW1**	WI MOD GRO	302012		
40176769002	**MW2R**	WI MOD GRO	302012		
40176769003	**MW3R**	WI MOD GRO	302012		
40176769004	**MW4R**	WI MOD GRO	302012		
40176769005	**MW5R**	WI MOD GRO	302012		
40176769006	**MW6**	WI MOD GRO	302012		
40176769007	**MW7**	WI MOD GRO	302012		
40176769008	**MW8**	WI MOD GRO	302012		
40176769009	**MW9**	WI MOD GRO	302012		
40176769010	**MW10**	WI MOD GRO	302012		
40176769011	**MW11**	WI MOD GRO	302012		
40176769012	**BAITSHOP**	EPA 524.2	567835		
40176769013	**BOBS SERVICE**	EPA 524.2	567835		

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

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:	
Project Contact:	David Carlson
Phone:	715 675-9784
Project Number:	7367
Project Name:	Hedlund Dx
Project State:	WI
Sampled By (Print):	David Carlson
Sampled By (Sign):	
PO #:	
Regulatory Program:	RCRA

Quote #:	40176769
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; Sl = Sludge; WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: RCRA/W	Analyses Requested: DW VOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW1	9/25/18	7:48	GW	N	B	X				
002	MW2R	8:04	~~7:35~~				X				
003	MW3R		7:35				X				
004	MW4R		8:25				X				
005	MW5R		10:07				X				
006	MW6		8:50				X				
007	MW7		9:56				X				
008	MW8		9:00				X				
009	MW9		9:05				X				
010	MW10		9:23				X				
011	MW11		9:01				X				
012	BARTSHOP		9:22	DW				X			
013	Bobs Service		9:39	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:
	9-27-18 @ 2:00 pm		
WALCO	9/29/18 0805	PACE	9/29/18 0805

PACE Project No.: 40176769
Receipt Temp = 2.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

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

Sample Preservation Receipt Form

Client Name: RET

Project # 40176764

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															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		4															2.5 / 5 / 10
004																		2															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		1															2.5 / 5 / 10
008																		1															2.5 / 5 / 10
009																		3															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		1															2.5 / 5 / 10
012															3																		2.5 / 5 / 10
013															3																		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# : 40176769

40176769

Client Name: REI

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

Tracking #: 1848 381 -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: 12.1 /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: 9/8/18
Initials: JM

Chain of Custody Present:	☒Yes	☐No	☐N/A
Chain of Custody Filled Out:	☐Yes	☒No	☐N/A
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☒Yes	☐No	
- VOA Samples frozen upon receipt	☐Yes	☐No	
Short Hold Time Analysis (<72hr):	☐Yes	☒No	
Rush Turn Around Time Requested:	☐Yes	☒No	
Sufficient Volume:			
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes	☒No	☐N/A
Correct Containers Used:	☒Yes	☐No	
-Pace Containers Used:	☒Yes	☐No	☐N/A
-Pace IR Containers Used:	☐Yes	☐No	☒N/A
Containers Intact:	☒Yes	☐No	
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A
Sample Labels match COC:	☐Yes	☒No	☐N/A
-Includes date/time/ID/Analysis Matrix: W			
Trip Blank Present:	☐Yes	☒No	☐N/A
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A
Pace Trip Blank Lot # (if purchased):			

1.
2. no qty #, mail/move JM 9/12/18
3.
4.
5. Date/Time:
6.
7.
8.
9.
10.
11.
12. All Samples date as 9/4/18; ID as "BOBS" JM 9/19/18
13.

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:** 10-1-18

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

December 21, 2018

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

RE: Project: 7367 HEDLUND DX
Pace Project No.: 40181032

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

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

CERTIFICATIONS

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

Minnesota Certification IDs

1700 Elm Street SE, 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 DW Certification #: MN00064
Arkansas WW 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
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
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
Wyoming UST Certification #: via A2LA 2926.01

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: 7367 HEDLUND DX
Pace Project No.: 40181032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40181032001	**MW1**	Water	12/12/18 14:00	12/14/18 09:00
40181032002	**MW2R**	Water	12/12/18 14:45	12/14/18 09:00
40181032003	**MW3R**	Water	12/12/18 14:50	12/14/18 09:00
40181032004	**MW4R**	Water	12/12/18 14:55	12/14/18 09:00
40181032005	**MW5R**	Water	12/12/18 15:00	12/14/18 09:00
40181032006	**MW6**	Water	12/12/18 14:05	12/14/18 09:00
40181032007	**MW7**	Water	12/12/18 14:20	12/14/18 09:00
40181032008	**MW8**	Water	12/12/18 14:25	12/14/18 09:00
40181032009	**MW9**	Water	12/12/18 14:30	12/14/18 09:00
40181032010	**MW10**	Water	12/12/18 14:10	12/14/18 09:00
40181032011	**MW11**	Water	12/12/18 14:15	12/14/18 09:00
40181032012	**BAITSHOP POTABLE**	Water	12/12/18 15:05	12/14/18 09:00
40181032013	**BOBS AUTO POTABLE**	Water	12/12/18 15:10	12/14/18 09:00

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

SAMPLE ANALYTE COUNT

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40181032001	**MW1**	WI MOD GRO	ALD	10	PASI-G
40181032002	**MW2R**	WI MOD GRO	ALD	10	PASI-G
40181032003	**MW3R**	WI MOD GRO	ALD	10	PASI-G
40181032004	**MW4R**	WI MOD GRO	ALD	10	PASI-G
40181032005	**MW5R**	WI MOD GRO	ALD	10	PASI-G
40181032006	**MW6**	WI MOD GRO	ALD	10	PASI-G
40181032007	**MW7**	WI MOD GRO	ALD	10	PASI-G
40181032008	**MW8**	WI MOD GRO	ALD	10	PASI-G
40181032009	**MW9**	WI MOD GRO	ALD	10	PASI-G
40181032010	**MW10**	WI MOD GRO	ALD	10	PASI-G
40181032011	**MW11**	WI MOD GRO	ALD	10	PASI-G
40181032012	**BAITSHOP POTABLE**	EPA 524.2	DS2	62	PASI-M
40181032013	**BOBS AUTO POTABLE**	EPA 524.2	DS2	62	PASI-M

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

ANALYTICAL RESULTS

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

Sample: MW1 **Lab ID: 40181032001** Collected: 12/12/18 14:00 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 08:37	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 08:37	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/18/18 08:37	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/18/18 08:37	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/18/18 08:37	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/18/18 08:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 08:37	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/18/18 08:37	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/18/18 08:37	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		12/18/18 08:37	98-08-8	

Sample: MW2R **Lab ID: 40181032002** Collected: 12/12/18 14:45 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	**45.6**	ug/L	1.0	0.31	1		12/18/18 09:02	71-43-2	
Ethylbenzene	**11.3**	ug/L	1.1	0.33	1		12/18/18 09:02	100-41-4	
Methyl-tert-butyl ether	**0.39J**	ug/L	1.1	0.32	1		12/18/18 09:02	1634-04-4	
Naphthalene	**1.8**	ug/L	1.7	0.51	1		12/18/18 09:02	91-20-3	
Toluene	**2.7**	ug/L	1.6	0.49	1		12/18/18 09:02	108-88-3	
1,2,4-Trimethylbenzene	**6.6**	ug/L	1.1	0.34	1		12/18/18 09:02	95-63-6	
1,3,5-Trimethylbenzene	**0.63J**	ug/L	1.1	0.33	1		12/18/18 09:02	108-67-8	
m&p-Xylene	**22.4**	ug/L	2.2	0.66	1		12/18/18 09:02	179601-23-1	
o-Xylene	**1.7**	ug/L	1.0	0.32	1		12/18/18 09:02	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		12/18/18 09:02	98-08-8	

Sample: MW3R **Lab ID: 40181032003** Collected: 12/12/18 14:50 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	**121**	ug/L	2.0	0.61	2		12/19/18 08:38	71-43-2	
Ethylbenzene	**3.9**	ug/L	2.2	0.66	2		12/19/18 08:38	100-41-4	
Methyl-tert-butyl ether	**<0.64**	ug/L	2.1	0.64	2		12/19/18 08:38	1634-04-4	
Naphthalene	**<1.0**	ug/L	3.4	1.0	2		12/19/18 08:38	91-20-3	
Toluene	**<0.98**	ug/L	3.3	0.98	2		12/19/18 08:38	108-88-3	
1,2,4-Trimethylbenzene	**<0.68**	ug/L	2.3	0.68	2		12/19/18 08:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.66**	ug/L	2.2	0.66	2		12/19/18 08:38	108-67-8	
m&p-Xylene	**<1.3**	ug/L	4.4	1.3	2		12/19/18 08:38	179601-23-1	
o-Xylene	**<0.63**	ug/L	2.1	0.63	2		12/19/18 08:38	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: 7367 HEDLUND DX
Pace Project No.: 40181032

Sample: MW3R **Lab ID: 40181032003** Collected: 12/12/18 14:50 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								
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		2		12/19/18 08:38	98-08-8	HS

Sample: MW4R **Lab ID: 40181032004** Collected: 12/12/18 14:55 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	**835**	ug/L	10.2	3.1	10		12/18/18 13:44	71-43-2	
Ethylbenzene	**264**	ug/L	11.0	3.3	10		12/18/18 13:44	100-41-4	
Methyl-tert-butyl ether	**9.4J**	ug/L	10.7	3.2	10		12/18/18 13:44	1634-04-4	
Naphthalene	**174**	ug/L	16.8	5.1	10		12/18/18 13:44	91-20-3	
Toluene	**262**	ug/L	16.3	4.9	10		12/18/18 13:44	108-88-3	
1,2,4-Trimethylbenzene	**680**	ug/L	11.4	3.4	10		12/18/18 13:44	95-63-6	
1,3,5-Trimethylbenzene	**218**	ug/L	10.9	3.3	10		12/18/18 13:44	108-67-8	
m&p-Xylene	**1600**	ug/L	21.8	6.6	10		12/18/18 13:44	179601-23-1	
o-Xylene	**1170**	ug/L	10.5	3.2	10		12/18/18 13:44	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		10		12/18/18 13:44	98-08-8	

Sample: MW5R **Lab ID: 40181032005** Collected: 12/12/18 15:00 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	**146**	ug/L	10.2	3.1	10		12/18/18 14:09	71-43-2	
Ethylbenzene	**365**	ug/L	11.0	3.3	10		12/18/18 14:09	100-41-4	
Methyl-tert-butyl ether	**4.9J**	ug/L	10.7	3.2	10		12/18/18 14:09	1634-04-4	
Naphthalene	**95.9**	ug/L	16.8	5.1	10		12/18/18 14:09	91-20-3	
Toluene	**37.2**	ug/L	16.3	4.9	10		12/18/18 14:09	108-88-3	
1,2,4-Trimethylbenzene	**386**	ug/L	11.4	3.4	10		12/18/18 14:09	95-63-6	
1,3,5-Trimethylbenzene	**142**	ug/L	10.9	3.3	10		12/18/18 14:09	108-67-8	
m&p-Xylene	**543**	ug/L	21.8	6.6	10		12/18/18 14:09	179601-23-1	
o-Xylene	**19.9**	ug/L	10.5	3.2	10		12/18/18 14:09	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		10		12/18/18 14:09	98-08-8	D3

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

Sample: MW6 **Lab ID: 40181032006** Collected: 12/12/18 14:05 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	**2.9**	ug/L	1.0	0.31	1		12/18/18 09:28	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 09:28	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/18/18 09:28	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/18/18 09:28	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/18/18 09:28	108-88-3	
1,2,4-Trimethylbenzene	**0.44J**	ug/L	1.1	0.34	1		12/18/18 09:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 09:28	108-67-8	
m&p-Xylene	**0.69J**	ug/L	2.2	0.66	1		12/18/18 09:28	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/18/18 09:28	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/18/18 09:28	98-08-8	

Sample: MW7 **Lab ID: 40181032007** Collected: 12/12/18 14:20 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 09:54	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 09:54	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/18/18 09:54	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/18/18 09:54	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/18/18 09:54	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/18/18 09:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 09:54	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/18/18 09:54	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/18/18 09:54	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		12/18/18 09:54	98-08-8	

Sample: MW8 **Lab ID: 40181032008** Collected: 12/12/18 14:25 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 10:19	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 10:19	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/18/18 10:19	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/18/18 10:19	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/18/18 10:19	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/18/18 10:19	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 10:19	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/18/18 10:19	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/18/18 10:19	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: 7367 HEDLUND DX
Pace Project No.: 40181032

Sample: MW8 **Lab ID: 40181032008** Collected: 12/12/18 14:25 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								
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		12/18/18 10:19	98-08-8	

Sample: MW9 **Lab ID: 40181032009** Collected: 12/12/18 14:30 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 10:45	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 10:45	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/18/18 10:45	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/18/18 10:45	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/18/18 10:45	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/18/18 10:45	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 10:45	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/18/18 10:45	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/18/18 10:45	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		12/18/18 10:45	98-08-8	

Sample: MW10 **Lab ID: 40181032010** Collected: 12/12/18 14:10 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 11:10	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 11:10	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/18/18 11:10	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/18/18 11:10	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/18/18 11:10	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/18/18 11:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 11:10	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/18/18 11:10	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/18/18 11:10	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		12/18/18 11:10	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: 7367 HEDLUND DX
Pace Project No.: 40181032

Sample: MW11 **Lab ID: 40181032011** Collected: 12/12/18 14:15 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 11:36	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 11:36	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/18/18 11:36	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/18/18 11:36	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/18/18 11:36	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/18/18 11:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/18/18 11:36	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/18/18 11:36	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/18/18 11:36	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		12/18/18 11:36	98-08-8	

Sample: BAITSHOP POTABLE **Lab ID: 40181032012** Collected: 12/12/18 15:05 Received: 12/14/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.12**	ug/L	0.41	0.12	1		12/20/18 14:57	71-43-2	
Bromobenzene	**<0.23**	ug/L	0.76	0.23	1		12/20/18 14:57	108-86-1	
Bromochloromethane	**<0.30**	ug/L	0.99	0.30	1		12/20/18 14:57	74-97-5	
Bromodichloromethane	**<0.15**	ug/L	0.50	0.15	1		12/20/18 14:57	75-27-4	
Bromoform	**<0.45**	ug/L	1.5	0.45	1		12/20/18 14:57	75-25-2	
Bromomethane	**<0.62**	ug/L	2.1	0.62	1		12/20/18 14:57	74-83-9	
n-Butylbenzene	**<0.14**	ug/L	0.47	0.14	1		12/20/18 14:57	104-51-8	
sec-Butylbenzene	**<0.20**	ug/L	0.68	0.20	1		12/20/18 14:57	135-98-8	
tert-Butylbenzene	**<0.14**	ug/L	0.46	0.14	1		12/20/18 14:57	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	0.67	0.20	1		12/20/18 14:57	56-23-5	
Chlorobenzene	**<0.12**	ug/L	0.40	0.12	1		12/20/18 14:57	108-90-7	
Chloroethane	**<0.14**	ug/L	0.47	0.14	1		12/20/18 14:57	75-00-3	
Chloroform	**<0.31**	ug/L	1.0	0.31	1		12/20/18 14:57	67-66-3	
Chloromethane	**<0.15**	ug/L	0.51	0.15	1		12/20/18 14:57	74-87-3	
2-Chlorotoluene	**<0.086**	ug/L	0.29	0.086	1		12/20/18 14:57	95-49-8	
4-Chlorotoluene	**<0.093**	ug/L	0.31	0.093	1		12/20/18 14:57	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	6.5	2.0	1		12/20/18 14:57	96-12-8	N2
Dibromochloromethane	**<0.24**	ug/L	0.81	0.24	1		12/20/18 14:57	124-48-1	
1,2-Dibromoethane (EDB)	**<0.17**	ug/L	0.57	0.17	1		12/20/18 14:57	106-93-4	N2
Dibromomethane	**<0.23**	ug/L	0.76	0.23	1		12/20/18 14:57	74-95-3	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.58	0.18	1		12/20/18 14:57	95-50-1	
1,3-Dichlorobenzene	**<0.14**	ug/L	0.46	0.14	1		12/20/18 14:57	541-73-1	
1,4-Dichlorobenzene	**<0.086**	ug/L	0.29	0.086	1		12/20/18 14:57	106-46-7	
Dichlorodifluoromethane	**<0.26**	ug/L	0.87	0.26	1		12/20/18 14:57	75-71-8	
1,1-Dichloroethane	**<0.16**	ug/L	0.55	0.16	1		12/20/18 14:57	75-34-3	
1,2-Dichloroethane	**<0.13**	ug/L	0.45	0.13	1		12/20/18 14:57	107-06-2	
1,1-Dichloroethene	**<0.19**	ug/L	0.62	0.19	1		12/20/18 14:57	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

Sample: BAITSHOP POTABLE **Lab ID: 40181032012** Collected: 12/12/18 15:05 Received: 12/14/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
cis-1,2-Dichloroethene	**<0.14**	ug/L	0.46	0.14	1		12/20/18 14:57	156-59-2	
trans-1,2-Dichloroethene	**<0.18**	ug/L	0.59	0.18	1		12/20/18 14:57	156-60-5	
1,2-Dichloropropane	**<0.19**	ug/L	0.64	0.19	1		12/20/18 14:57	78-87-5	
1,3-Dichloropropane	**<0.11**	ug/L	0.35	0.11	1		12/20/18 14:57	142-28-9	N2
2,2-Dichloropropane	**<0.16**	ug/L	0.53	0.16	1		12/20/18 14:57	594-20-7	
1,1-Dichloropropene	**<0.10**	ug/L	0.35	0.10	1		12/20/18 14:57	563-58-6	
cis-1,3-Dichloropropene	**<0.21**	ug/L	0.69	0.21	1		12/20/18 14:57	10061-01-5	
trans-1,3-Dichloropropene	**<0.24**	ug/L	0.81	0.24	1		12/20/18 14:57	10061-02-6	
Ethylbenzene	**<0.11**	ug/L	0.36	0.11	1		12/20/18 14:57	100-41-4	
Hexachloro-1,3-butadiene	**<0.28**	ug/L	0.92	0.28	1		12/20/18 14:57	87-68-3	
Isopropylbenzene (Cumene)	**<0.17**	ug/L	0.57	0.17	1		12/20/18 14:57	98-82-8	
p-Isopropyltoluene	**<0.21**	ug/L	0.71	0.21	1		12/20/18 14:57	99-87-6	N2
Methylene Chloride	**<0.44**	ug/L	1.5	0.44	1		12/20/18 14:57	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	0.56	0.17	1		12/20/18 14:57	1634-04-4	
Naphthalene	**<0.18**	ug/L	0.60	0.18	1		12/20/18 14:57	91-20-3	
n-Propylbenzene	**<0.13**	ug/L	0.44	0.13	1		12/20/18 14:57	103-65-1	
Styrene	**<0.18**	ug/L	0.59	0.18	1		12/20/18 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.12**	ug/L	0.39	0.12	1		12/20/18 14:57	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.17**	ug/L	0.56	0.17	1		12/20/18 14:57	79-34-5	
Tetrachloroethene	**<0.17**	ug/L	0.56	0.17	1		12/20/18 14:57	127-18-4	
Toluene	**<0.078**	ug/L	0.26	0.078	1		12/20/18 14:57	108-88-3	
1,2,3-Trichlorobenzene	**<0.25**	ug/L	0.83	0.25	1		12/20/18 14:57	87-61-6	
1,2,4-Trichlorobenzene	**<0.19**	ug/L	0.64	0.19	1		12/20/18 14:57	120-82-1	
1,1,1-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		12/20/18 14:57	71-55-6	
1,1,2-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		12/20/18 14:57	79-00-5	
Trichloroethene	**<0.12**	ug/L	0.39	0.12	1		12/20/18 14:57	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	0.70	0.21	1		12/20/18 14:57	75-69-4	
1,2,3-Trichloropropane	**<0.39**	ug/L	1.3	0.39	1		12/20/18 14:57	96-18-4	
1,2,4-Trimethylbenzene	**<0.23**	ug/L	0.76	0.23	1		12/20/18 14:57	95-63-6	
1,3,5-Trimethylbenzene	**<0.15**	ug/L	0.49	0.15	1		12/20/18 14:57	108-67-8	N2
Vinyl chloride	**<0.086**	ug/L	0.29	0.086	1		12/20/18 14:57	75-01-4	
Xylene (Total)	**<0.30**	ug/L	1.0	0.30	1		12/20/18 14:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	75-125		1		12/20/18 14:57	460-00-4	
Toluene-d8 (S)	103	%.	75-125		1		12/20/18 14:57	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%.	75-125		1		12/20/18 14:57	17060-07-0	

Sample: BOBS AUTO POTABLE **Lab ID: 40181032013** Collected: 12/12/18 15:10 Received: 12/14/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.12**	ug/L	0.41	0.12	1		12/20/18 15:21	71-43-2	
Bromobenzene	**<0.23**	ug/L	0.76	0.23	1		12/20/18 15:21	108-86-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

Sample: BOBS AUTO POTABLE **Lab ID: 40181032013** Collected: 12/12/18 15:10 Received: 12/14/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Bromochloromethane	**<0.30**	ug/L	0.99	0.30	1		12/20/18 15:21	74-97-5	
Bromodichloromethane	**<0.15**	ug/L	0.50	0.15	1		12/20/18 15:21	75-27-4	
Bromoform	**<0.45**	ug/L	1.5	0.45	1		12/20/18 15:21	75-25-2	
Bromomethane	**<0.62**	ug/L	2.1	0.62	1		12/20/18 15:21	74-83-9	
n-Butylbenzene	**<0.14**	ug/L	0.47	0.14	1		12/20/18 15:21	104-51-8	
sec-Butylbenzene	**<0.20**	ug/L	0.68	0.20	1		12/20/18 15:21	135-98-8	
tert-Butylbenzene	**<0.14**	ug/L	0.46	0.14	1		12/20/18 15:21	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	0.67	0.20	1		12/20/18 15:21	56-23-5	
Chlorobenzene	**<0.12**	ug/L	0.40	0.12	1		12/20/18 15:21	108-90-7	
Chloroethane	**<0.14**	ug/L	0.47	0.14	1		12/20/18 15:21	75-00-3	
Chloroform	**<0.31**	ug/L	1.0	0.31	1		12/20/18 15:21	67-66-3	
Chloromethane	**<0.15**	ug/L	0.51	0.15	1		12/20/18 15:21	74-87-3	
2-Chlorotoluene	**<0.086**	ug/L	0.29	0.086	1		12/20/18 15:21	95-49-8	
4-Chlorotoluene	**<0.093**	ug/L	0.31	0.093	1		12/20/18 15:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	6.5	2.0	1		12/20/18 15:21	96-12-8	N2
Dibromochloromethane	**<0.24**	ug/L	0.81	0.24	1		12/20/18 15:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.17**	ug/L	0.57	0.17	1		12/20/18 15:21	106-93-4	N2
Dibromomethane	**<0.23**	ug/L	0.76	0.23	1		12/20/18 15:21	74-95-3	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.58	0.18	1		12/20/18 15:21	95-50-1	
1,3-Dichlorobenzene	**<0.14**	ug/L	0.46	0.14	1		12/20/18 15:21	541-73-1	
1,4-Dichlorobenzene	**<0.086**	ug/L	0.29	0.086	1		12/20/18 15:21	106-46-7	
Dichlorodifluoromethane	**<0.26**	ug/L	0.87	0.26	1		12/20/18 15:21	75-71-8	
1,1-Dichloroethane	**<0.16**	ug/L	0.55	0.16	1		12/20/18 15:21	75-34-3	
1,2-Dichloroethane	**<0.13**	ug/L	0.45	0.13	1		12/20/18 15:21	107-06-2	
1,1-Dichloroethene	**<0.19**	ug/L	0.62	0.19	1		12/20/18 15:21	75-35-4	
cis-1,2-Dichloroethene	**<0.14**	ug/L	0.46	0.14	1		12/20/18 15:21	156-59-2	
trans-1,2-Dichloroethene	**<0.18**	ug/L	0.59	0.18	1		12/20/18 15:21	156-60-5	
1,2-Dichloropropane	**<0.19**	ug/L	0.64	0.19	1		12/20/18 15:21	78-87-5	
1,3-Dichloropropane	**<0.11**	ug/L	0.35	0.11	1		12/20/18 15:21	142-28-9	N2
2,2-Dichloropropane	**<0.16**	ug/L	0.53	0.16	1		12/20/18 15:21	594-20-7	
1,1-Dichloropropene	**<0.10**	ug/L	0.35	0.10	1		12/20/18 15:21	563-58-6	
cis-1,3-Dichloropropene	**<0.21**	ug/L	0.69	0.21	1		12/20/18 15:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.24**	ug/L	0.81	0.24	1		12/20/18 15:21	10061-02-6	
Ethylbenzene	**<0.11**	ug/L	0.36	0.11	1		12/20/18 15:21	100-41-4	
Hexachloro-1,3-butadiene	**<0.28**	ug/L	0.92	0.28	1		12/20/18 15:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.17**	ug/L	0.57	0.17	1		12/20/18 15:21	98-82-8	
p-Isopropyltoluene	**<0.21**	ug/L	0.71	0.21	1		12/20/18 15:21	99-87-6	N2
Methylene Chloride	**<0.44**	ug/L	1.5	0.44	1		12/20/18 15:21	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	0.56	0.17	1		12/20/18 15:21	1634-04-4	
Naphthalene	**<0.18**	ug/L	0.60	0.18	1		12/20/18 15:21	91-20-3	
n-Propylbenzene	**<0.13**	ug/L	0.44	0.13	1		12/20/18 15:21	103-65-1	
Styrene	**<0.18**	ug/L	0.59	0.18	1		12/20/18 15:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.12**	ug/L	0.39	0.12	1		12/20/18 15:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.17**	ug/L	0.56	0.17	1		12/20/18 15:21	79-34-5	
Tetrachloroethene	**<0.17**	ug/L	0.56	0.17	1		12/20/18 15:21	127-18-4	
Toluene	**<0.078**	ug/L	0.26	0.078	1		12/20/18 15:21	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

Sample: BOBS AUTO POTABLE **Lab ID: 40181032013** Collected: 12/12/18 15:10 Received: 12/14/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
1,2,3-Trichlorobenzene	**<0.25**	ug/L	0.83	0.25	1		12/20/18 15:21	87-61-6	
1,2,4-Trichlorobenzene	**<0.19**	ug/L	0.64	0.19	1		12/20/18 15:21	120-82-1	
1,1,1-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		12/20/18 15:21	71-55-6	
1,1,2-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		12/20/18 15:21	79-00-5	
Trichloroethene	**<0.12**	ug/L	0.39	0.12	1		12/20/18 15:21	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	0.70	0.21	1		12/20/18 15:21	75-69-4	
1,2,3-Trichloropropane	**<0.39**	ug/L	1.3	0.39	1		12/20/18 15:21	96-18-4	
1,2,4-Trimethylbenzene	**<0.23**	ug/L	0.76	0.23	1		12/20/18 15:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.15**	ug/L	0.49	0.15	1		12/20/18 15:21	108-67-8	N2
Vinyl chloride	**<0.086**	ug/L	0.29	0.086	1		12/20/18 15:21	75-01-4	
Xylene (Total)	**<0.30**	ug/L	1.0	0.30	1		12/20/18 15:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	75-125		1		12/20/18 15:21	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		12/20/18 15:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%.	75-125		1		12/20/18 15:21	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

QC Batch: 309327 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40181032001, 40181032002, 40181032003, 40181032004, 40181032005, 40181032006, 40181032007, 40181032008, 40181032009, 40181032010, 40181032011

METHOD BLANK: 1807254 Matrix: Water
Associated Lab Samples: 40181032001, 40181032002, 40181032003, 40181032004, 40181032005, 40181032006, 40181032007, 40181032008, 40181032009, 40181032010, 40181032011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	12/18/18 06:54	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	12/18/18 06:54	
Benzene	ug/L	<0.31	1.0	12/18/18 06:54	
Ethylbenzene	ug/L	<0.33	1.1	12/18/18 06:54	
m&p-Xylene	ug/L	<0.66	2.2	12/18/18 06:54	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	12/18/18 06:54	
Naphthalene	ug/L	<0.51	1.7	12/18/18 06:54	
o-Xylene	ug/L	<0.32	1.0	12/18/18 06:54	
Toluene	ug/L	<0.49	1.6	12/18/18 06:54	
a,a,a-Trifluorotoluene (S)	%	101	80-120	12/18/18 06:54	

LABORATORY CONTROL SAMPLE & LCSD: 1807255 1807256

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	20.8	20.1	104	100	80-120	4	20	
1,3,5-Trimethylbenzene	ug/L	20	20.1	19.4	101	97	80-120	4	20	
Benzene	ug/L	20	21.2	20.5	106	102	80-120	3	20	
Ethylbenzene	ug/L	20	21.1	20.3	106	102	80-120	4	20	
m&p-Xylene	ug/L	40	41.3	39.9	103	100	80-120	4	20	
Methyl-tert-butyl ether	ug/L	20	20.8	20.0	104	100	80-120	4	20	
Naphthalene	ug/L	20	20.5	20.0	102	100	80-120	2	20	
o-Xylene	ug/L	20	20.6	19.9	103	100	80-120	3	20	
Toluene	ug/L	20	21.2	20.4	106	102	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				101	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1807461 1807462

Parameter	Units	40181032001 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	19.9	20.3	99	102	51-160	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	19.1	19.6	96	98	56-146	2	20	
Benzene	ug/L	<0.31	20	20	21.9	22.2	109	111	71-137	2	20	
Ethylbenzene	ug/L	<0.33	20	20	21.4	21.9	107	109	71-141	2	20	
m&p-Xylene	ug/L	<0.66	40	40	41.7	42.3	104	106	66-141	1	20	
Methyl-tert-butyl ether	ug/L	<0.32	20	20	20.2	21.0	101	105	80-120	4	20	
Naphthalene	ug/L	<0.51	20	20	18.8	20.0	94	100	67-138	6	20	
o-Xylene	ug/L	<0.32	20	20	20.7	21.1	104	105	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: 7367 HEDLUND DX
Pace Project No.: 40181032

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1807461 1807462

Parameter	Units	40181032001 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	21.8	22.2	109	111	76-134	2	20	
a,a,a-Trifluorotoluene (S)	%						102	103	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
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

QC Batch: 582014
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Associated Lab Samples: 40181032012, 40181032013

METHOD BLANK: 3154955
Matrix: Water
Associated Lab Samples: 40181032012, 40181032013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.12	0.39	12/20/18 10:10	
1,1,1-Trichloroethane	ug/L	<0.19	0.62	12/20/18 10:10	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	0.56	12/20/18 10:10	
1,1,2-Trichloroethane	ug/L	<0.19	0.62	12/20/18 10:10	
1,1-Dichloroethane	ug/L	<0.16	0.55	12/20/18 10:10	
1,1-Dichloroethene	ug/L	<0.19	0.62	12/20/18 10:10	
1,1-Dichloropropene	ug/L	<0.10	0.35	12/20/18 10:10	
1,2,3-Trichlorobenzene	ug/L	<0.25	0.83	12/20/18 10:10	
1,2,3-Trichloropropane	ug/L	<0.39	1.3	12/20/18 10:10	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.64	12/20/18 10:10	
1,2,4-Trimethylbenzene	ug/L	<0.23	0.76	12/20/18 10:10	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	6.5	12/20/18 10:10	N2
1,2-Dibromoethane (EDB)	ug/L	<0.17	0.57	12/20/18 10:10	N2
1,2-Dichlorobenzene	ug/L	<0.18	0.58	12/20/18 10:10	
1,2-Dichloroethane	ug/L	<0.13	0.45	12/20/18 10:10	
1,2-Dichloropropane	ug/L	<0.19	0.64	12/20/18 10:10	
1,3,5-Trimethylbenzene	ug/L	<0.15	0.49	12/20/18 10:10	N2
1,3-Dichlorobenzene	ug/L	<0.14	0.46	12/20/18 10:10	
1,3-Dichloropropane	ug/L	<0.11	0.35	12/20/18 10:10	N2
1,4-Dichlorobenzene	ug/L	<0.086	0.29	12/20/18 10:10	
2,2-Dichloropropane	ug/L	<0.16	0.53	12/20/18 10:10	
2-Chlorotoluene	ug/L	<0.086	0.29	12/20/18 10:10	
4-Chlorotoluene	ug/L	<0.093	0.31	12/20/18 10:10	
Benzene	ug/L	<0.12	0.41	12/20/18 10:10	
Bromobenzene	ug/L	<0.23	0.76	12/20/18 10:10	
Bromochloromethane	ug/L	<0.30	0.99	12/20/18 10:10	
Bromodichloromethane	ug/L	<0.15	0.50	12/20/18 10:10	
Bromoform	ug/L	<0.45	1.5	12/20/18 10:10	
Bromomethane	ug/L	<0.62	2.1	12/20/18 10:10	
Carbon tetrachloride	ug/L	<0.20	0.67	12/20/18 10:10	
Chlorobenzene	ug/L	<0.12	0.40	12/20/18 10:10	
Chloroethane	ug/L	<0.14	0.47	12/20/18 10:10	
Chloroform	ug/L	<0.31	1.0	12/20/18 10:10	
Chloromethane	ug/L	<0.15	0.51	12/20/18 10:10	
cis-1,2-Dichloroethene	ug/L	<0.14	0.46	12/20/18 10:10	
cis-1,3-Dichloropropene	ug/L	<0.21	0.69	12/20/18 10:10	
Dibromochloromethane	ug/L	<0.24	0.81	12/20/18 10:10	
Dibromomethane	ug/L	<0.23	0.76	12/20/18 10:10	
Dichlorodifluoromethane	ug/L	<0.26	0.87	12/20/18 10:10	
Ethylbenzene	ug/L	<0.11	0.36	12/20/18 10:10	
Hexachloro-1,3-butadiene	ug/L	<0.28	0.92	12/20/18 10:10	

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: 7367 HEDLUND DX
Pace Project No.: 40181032

METHOD BLANK: 3154955 Matrix: Water
Associated Lab Samples: 40181032012, 40181032013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.17	0.57	12/20/18 10:10	
Methyl-tert-butyl ether	ug/L	<0.17	0.56	12/20/18 10:10	
Methylene Chloride	ug/L	<0.44	1.5	12/20/18 10:10	
n-Butylbenzene	ug/L	<0.14	0.47	12/20/18 10:10	
n-Propylbenzene	ug/L	<0.13	0.44	12/20/18 10:10	
Naphthalene	ug/L	<0.18	0.60	12/20/18 10:10	
p-Isopropyltoluene	ug/L	<0.21	0.71	12/20/18 10:10	N2
sec-Butylbenzene	ug/L	<0.20	0.68	12/20/18 10:10	
Styrene	ug/L	<0.18	0.59	12/20/18 10:10	
tert-Butylbenzene	ug/L	<0.14	0.46	12/20/18 10:10	
Tetrachloroethene	ug/L	<0.17	0.56	12/20/18 10:10	
Toluene	ug/L	<0.078	0.26	12/20/18 10:10	
trans-1,2-Dichloroethene	ug/L	<0.18	0.59	12/20/18 10:10	
trans-1,3-Dichloropropene	ug/L	<0.24	0.81	12/20/18 10:10	
Trichloroethene	ug/L	<0.12	0.39	12/20/18 10:10	
Trichlorofluoromethane	ug/L	<0.21	0.70	12/20/18 10:10	
Vinyl chloride	ug/L	<0.086	0.29	12/20/18 10:10	
Xylene (Total)	ug/L	<0.30	1.0	12/20/18 10:10	
1,2-Dichloroethane-d4 (S)	%.	98	75-125	12/20/18 10:10	
4-Bromofluorobenzene (S)	%.	100	75-125	12/20/18 10:10	
Toluene-d8 (S)	%.	106	75-125	12/20/18 10:10	

LABORATORY CONTROL SAMPLE: 3154956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.9	104	70-130	
1,1,1-Trichloroethane	ug/L	20	19.9	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.5	103	70-130	
1,1,2-Trichloroethane	ug/L	20	21.7	108	70-130	
1,1-Dichloroethane	ug/L	20	19.9	100	70-130	
1,1-Dichloroethene	ug/L	20	19.0	95	70-130	
1,1-Dichloropropene	ug/L	20	19.5	97	70-130	
1,2,3-Trichlorobenzene	ug/L	20	20.7	103	70-130	
1,2,3-Trichloropropane	ug/L	20	19.3	97	70-130	
1,2,4-Trichlorobenzene	ug/L	20	20.9	104	70-130	
1,2,4-Trimethylbenzene	ug/L	20	19.9	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.4	97	70-130	N2
1,2-Dibromoethane (EDB)	ug/L	20	19.1	96	70-130	N2
1,2-Dichlorobenzene	ug/L	20	21.1	106	70-130	
1,2-Dichloroethane	ug/L	20	18.9	94	70-130	
1,2-Dichloropropane	ug/L	20	19.8	99	70-130	
1,3,5-Trimethylbenzene	ug/L	20	19.5	97	70-130	N2
1,3-Dichlorobenzene	ug/L	20	21.3	106	70-130	
1,3-Dichloropropane	ug/L	20	21.3	107	70-130	N2

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: 7367 HEDLUND DX
Pace Project No.: 40181032

LABORATORY CONTROL SAMPLE: 3154956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	20	20.5	103	70-130	
2,2-Dichloropropane	ug/L	20	21.1	106	70-130	
2-Chlorotoluene	ug/L	20	22.0	110	70-130	
4-Chlorotoluene	ug/L	20	20.1	101	70-130	
Benzene	ug/L	20	19.2	96	70-130	
Bromobenzene	ug/L	20	20.5	102	70-130	
Bromochloromethane	ug/L	20	21.0	105	70-130	
Bromodichloromethane	ug/L	20	22.9	115	70-130	
Bromoform	ug/L	20	21.4	107	70-130	
Bromomethane	ug/L	20	16.5	82	70-130	
Carbon tetrachloride	ug/L	20	20.4	102	70-130	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	20.2	101	70-130	
Chloroform	ug/L	20	19.2	96	70-130	
Chloromethane	ug/L	20	20.4	102	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.9	100	70-130	
Dibromochloromethane	ug/L	20	20.9	105	70-130	
Dibromomethane	ug/L	20	21.9	110	70-130	
Dichlorodifluoromethane	ug/L	20	23.1	115	70-130	
Ethylbenzene	ug/L	20	19.6	98	70-130	
Hexachloro-1,3-butadiene	ug/L	20	23.8	119	70-130	
Isopropylbenzene (Cumene)	ug/L	20	19.6	98	70-130	
Methyl-tert-butyl ether	ug/L	20	17.8	89	70-130	
Methylene Chloride	ug/L	20	18.8	94	70-130	
n-Butylbenzene	ug/L	20	19.1	96	70-130	
n-Propylbenzene	ug/L	20	19.3	96	70-130	
Naphthalene	ug/L	20	19.0	95	70-130	
p-Isopropyltoluene	ug/L	20	19.1	95	70-130	N2
sec-Butylbenzene	ug/L	20	19.0	95	70-130	
Styrene	ug/L	20	19.4	97	70-130	
tert-Butylbenzene	ug/L	20	19.4	97	70-130	
Tetrachloroethene	ug/L	20	19.5	97	70-130	
Toluene	ug/L	20	19.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.7	89	70-130	
Trichloroethene	ug/L	20	20.3	102	70-130	
Trichlorofluoromethane	ug/L	20	23.1	115	70-130	
Vinyl chloride	ug/L	20	21.3	107	70-130	
Xylene (Total)	ug/L	60	58.8	98	70-130	
1,2-Dichloroethane-d4 (S)	%.			97	75-125	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			95	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: 7367 HEDLUND DX
Pace Project No.: 40181032

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3154994 3154995

Parameter	Units	10459437001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.1	20.3	100	102	70-130	1	20	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	20.8	104	104	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.5	19.0	97	95	70-130	3	20	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.1	20.3	100	102	70-130	1	20	
1,1-Dichloroethane	ug/L	ND	20	20	20.0	20.1	100	100	70-130	1	20	
1,1-Dichloroethene	ug/L	ND	20	20	19.9	20.0	99	100	70-130	1	20	
1,1-Dichloropropene	ug/L	ND	20	20	20.0	20.7	100	104	70-130	4	20	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.5	20.2	103	101	70-130	2	20	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.5	17.7	92	88	70-130	5	20	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.3	19.6	102	98	70-130	3	20	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.3	19.3	96	97	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	45.9	44.1	92	88	70-130	4	20	N2
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.4	17.9	92	90	70-130	3	20	N2
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	19.7	98	99	70-130	1	20	
1,2-Dichloroethane	ug/L	2.2	20	20	19.7	19.8	88	88	70-130	0	20	
1,2-Dichloropropane	ug/L	ND	20	20	19.7	19.4	98	97	70-130	1	20	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.1	19.0	96	95	70-130	1	20	N2
1,3-Dichlorobenzene	ug/L	ND	20	20	19.9	20.5	99	103	70-130	3	20	
1,3-Dichloropropane	ug/L	ND	20	20	19.9	19.9	99	99	70-130	0	20	N2
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	19.5	96	97	70-130	2	20	
2,2-Dichloropropane	ug/L	ND	20	20	22.1	22.1	111	111	70-130	0	20	
2-Chlorotoluene	ug/L	ND	20	20	21.4	21.8	107	109	70-130	2	20	
4-Chlorotoluene	ug/L	ND	20	20	19.3	19.5	96	97	70-130	1	20	
Benzene	ug/L	ND	20	20	19.2	19.1	96	96	70-130	0	20	
Bromobenzene	ug/L	ND	20	20	19.9	19.7	99	98	70-130	1	20	
Bromochloromethane	ug/L	ND	20	20	19.3	19.9	97	100	70-130	3	20	
Bromodichloromethane	ug/L	ND	20	20	21.8	21.9	109	109	70-130	0	20	
Bromoform	ug/L	ND	20	20	20.1	19.8	101	99	70-130	1	20	
Bromomethane	ug/L	ND	20	20	15.1	18.7	76	94	70-130	21	20	R1
Carbon tetrachloride	ug/L	ND	20	20	21.4	21.4	107	107	70-130	0	20	
Chlorobenzene	ug/L	ND	20	20	20.5	20.6	103	103	70-130	0	20	
Chloroethane	ug/L	ND	20	20	18.1	21.5	90	108	70-130	17	20	
Chloroform	ug/L	ND	20	20	18.4	18.7	92	93	70-130	1	20	
Chloromethane	ug/L	ND	20	20	15.1	21.2	76	106	70-130	34	20	R1
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.9	19.0	94	95	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.7	18.0	94	90	70-130	4	20	
Dibromochloromethane	ug/L	ND	20	20	20.1	20.0	100	100	70-130	1	20	
Dibromomethane	ug/L	ND	20	20	20.7	20.2	103	101	70-130	2	20	
Dichlorodifluoromethane	ug/L	ND	20	20	21.2	25.2	106	126	70-130	17	20	
Ethylbenzene	ug/L	ND	20	20	19.9	19.7	99	98	70-130	1	20	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.9	24.0	119	120	70-130	0	20	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.7	19.9	98	99	70-130	1	20	
Methyl-tert-butyl ether	ug/L	ND	20	20	16.7	16.8	84	84	70-130	0	20	
Methylene Chloride	ug/L	ND	20	20	18.1	18.5	91	92	70-130	2	20	
n-Butylbenzene	ug/L	ND	20	20	19.0	18.8	95	94	70-130	1	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: 7367 HEDLUND DX
Pace Project No.: 40181032

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3154994 3154995

Parameter	Units	10459437001 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	ND	20	20	19.7	19.9	98	99	70-130	1	20	
Naphthalene	ug/L	ND	20	20	18.0	17.8	90	89	70-130	1	20	
p-Isopropyltoluene	ug/L	ND	20	20	19.0	19.0	95	95	70-130	0	20	N2
sec-Butylbenzene	ug/L	ND	20	20	19.4	19.4	97	97	70-130	0	20	
Styrene	ug/L	ND	20	20	18.8	18.6	94	93	70-130	1	20	
tert-Butylbenzene	ug/L	ND	20	20	19.4	19.3	97	97	70-130	0	20	
Tetrachloroethene	ug/L	ND	20	20	20.3	20.6	102	103	70-130	1	20	
Toluene	ug/L	ND	20	20	20.7	20.4	104	102	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.0	19.1	95	95	70-130	0	20	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.9	16.9	84	84	70-130	0	20	
Trichloroethene	ug/L	ND	20	20	21.3	20.8	107	104	70-130	2	20	
Trichlorofluoromethane	ug/L	ND	20	20	20.3	24.3	101	122	70-130	18	20	
Vinyl chloride	ug/L	ND	20	20	19.5	22.4	97	112	70-130	14	20	
Xylene (Total)	ug/L	ND	60	60	58.8	58.5	98	98	70-130	0	20	
1,2-Dichloroethane-d4 (S)	%.						93	99	75-125			
4-Bromofluorobenzene (S)	%.						99	98	75-125			
Toluene-d8 (S)	%.						100	99	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

QUALIFIERS

Project: 7367 HEDLUND DX
Pace Project No.: 40181032

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.

LABORATORIES

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

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
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: 7367 HEDLUND DX
Pace Project No.: 40181032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40181032001	**MW1**	WI MOD GRO	309327		
40181032002	**MW2R**	WI MOD GRO	309327		
40181032003	**MW3R**	WI MOD GRO	309327		
40181032004	**MW4R**	WI MOD GRO	309327		
40181032005	**MW5R**	WI MOD GRO	309327		
40181032006	**MW6**	WI MOD GRO	309327		
40181032007	**MW7**	WI MOD GRO	309327		
40181032008	**MW8**	WI MOD GRO	309327		
40181032009	**MW9**	WI MOD GRO	309327		
40181032010	**MW10**	WI MOD GRO	309327		
40181032011	**MW11**	WI MOD GRO	309327		
40181032012	**BAITSHOP POTABLE**	EPA 524.2	582014		
40181032013	**BOBS AUTO POTABLE**	EPA 524.2	582014		

JR

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

Y0181032

(Please Print Clearly)	
Company Name:	RET
Branch/Location:	
Project Contact:	DAVID CARLSON
Phone:	715-685-9784
Project Number:	7367
Project Name:	Hedlund DX
Project State:	WI
Sampled By (Print):	DAVID CARLSON
Sampled By (Sign):	
PO #:	
Regulatory Program:	PECFA

*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

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, 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 DATE	COLLECTION TIME	MATRIX	Analyses Requested: FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter								CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
						N B	N J									
01	MW1	12/12/18	2:00	GW		X										
02	MW2R		2:45			X										
03	MW3R		2:50			X										
04	MW4R		2:55			X										
05	MW5R		3:00			X										
06	MW6		2:05			X										
07	MW7		2:20			X										
08	MW8		2:25			X										
09	MW9		2:30			X										
10	MW10		2:10			X										
11	MW11		2:15			X										
12	BAITSHOP POTABLE		3:05	DW			X									
13	Bobs Auto Potable		3:10	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:
	12-13-18 3:30pm		
NATCO	12/14/18 0820		12/14/18 0820

PACE Project No.: Y0181032
Receipt Temp = 20.1 °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: REI

Project # 40181032

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																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3									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															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		3															2.5 / 5 / 10
012															3																		2.5 / 5 / 10
013															3																		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# : 40181032**

40181032

Client Name: REI

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☑ Waltco
☐ 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 - NA **Type of Ice:** Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0.1 /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: 12/14/18
Initials:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. reg #, mail to, invoice 12/14/18
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:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
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. 012 - ID - #1 portable sport shop
-Includes date/time/ID/Analysis Matrix: W		013 - ID - #2 portable Bobs
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:** 12-14-18