REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

January 7, 2019

Wisconsin Department of Natural Resources
Attn: Chris Saari
2501 Golf Course Road
Ashland, WI 54806

Subject:

Update Report
Tower Standard
14267 State Highway 70 West
Lac du Flambeau, WI
BRRTS #03-64-127899
PECFA #54538-9517-67

Dear Chris,

Enclosed is an Update Report for the above referenced site. REI Engineering, Inc. (REI) has completed this report summarizing site activities following the submittal of the May 2016 Current Conditions Report.

If you have any questions or concerns over the data presented in this report, please contact me at your earliest convenience at (715) 675-9784.

Sincerely,
REI Engineering, Inc.

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

Enclosure

CC: Mr. William Kozak, 8760 W Squaw Lake Road, Lac du Flambeau, WI 54538

REI

CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Update Report

Tower Standard
14267 State Highway 70 West
Lac du Flambeau, WI

BRRTS #03-64-127899
PECFA #54538-9517-67
REI Project #903

COMPREHENSIVE
SERVICES WITH
PRACTICAL
SOLUTIONS

Update Report

Tower Standard
14267 State Highway 70 West
Lac du Flambeau, WI 54538

BRRTS #03-64-127899
PECFA #54538-9517-67
REI Project #903

Prepared for:

Mr. William Kozak
8760 W Squaw Lake Road
Lac du Flambeau, WI 54538

January 2019

UPDATE REPORT

TOWER STANDARD
14267 STATE HIGHWAY 70 WEST
LAC DU FLAMBEAU, WI
BRRTS #03-64-127899

PECFA #54538-9517-67
REI PROJECT #903

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

"I, David N. Larsen, hereby certify that I am a registered Professional Geologist in the state of Wisconsin as defined in Wisconsin Statues Chapter 470.01. I also certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

"I, 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 of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Brian J. Bailey — 1/7/19

Brian J. Bailey — Date

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UPDATE REPORT

TOWER STANDARD
14267 STATE HIGHWAY 70 WEST
LAC DU FLAMBEAU, WI
BRRTS #03-64-127899

PECFA #54538-9517-67
REI PROJECT #903

1.0 INTRODUCTION

1.1 Purpose of Report

This report presents the most recent groundwater sampling that has been performed at the Tower Standard site in Lac du Flambeau, Wisconsin. The Tower Standard site is located in the SE ¼ of the SW ¼ of Section 30, Township 40 North, Range 05 East, in the Town of Lac du Flambeau, Vilas County, Wisconsin (Figure 1). The site address is 14267 State Highway 70 West, Lac du Flambeau, Wisconsin 54538. Wisconsin Transverse Mercator (WTM) coordinates are 526,731/604,470. This site had previously been investigated and officially closed by the Wisconsin Department of Natural Resources (WDNR) in October 2006 following a hotspot soil excavation and operation of a groundwater extraction and treatment system.

The Tower Standard investigation was reopened in March 2015 following an October 2006 fire, and subsequent investigation, at the former fireworks store located immediately north of the Tower Standard property at 14258 State Highway 70 West. The investigation was prompted by concern over potential soil and groundwater contamination associated with the fireworks as well as previous use of the property. The 14258 State Highway 70 West property formerly was used as a commercial automotive repair facility and before that a retail petroleum sales and repair shop.

The investigation at 14258 State Highway 70 West was conducted under the Targeted Brownfields Assessments (TBA) program for the United States Environmental Protection Agency (EPA) in response to a request from the Lac du Flambeau Tribe of

Lake Superior Chippewa Indians (Tribe). Through the completion of the TBA investigation it was determined that a petroleum impacted groundwater source remained under the 14257 State Highway 70 West property (former supper club) which appeared to discharge towards Haskell Lake. The assumed source of the petroleum impacted groundwater was the former Tower Standard site located at 14267 State Highway 70 West. The Wisconsin Department of Natural Resources (WDNR) was notified of the TBA findings on February 6, 2014 and the Tower Standard investigation was re-opened on March 17, 2015.

An extensive amount of discussion and planning was undertaken following the completion of the 2016 Current Conditions Report. Documentation specific to the discussion points has been chronicled in the WDNR and EPA public record. Two (2) additional groundwater monitoring wells were installed in 2016. These wells were installed independent of the Tower Standard investigation and well construction data was not shared with REI. REI was informed the wells were installed adjacent to monitoring well nests MW16 and MW21 and are referred to in this report as MW16 (USGS) and MW21 (USGS). Neither of these wells were sampled by REI personnel, and REI access was limited to a joint REI and Tribe water level measurement event on March 1, 2017.

A viable remedial strategy (air sparge with soil vapor extraction and soil excavation) appeared to be close to implementation in 2017, but it was eventually shelved when tribal demands pushed the cost of implementation beyond the combined funding abilities of both the EPA and WDNR.

Additionally, the owner of record at 14257 State Highway 70 West entered into an access agreement with the Tribe and provided the Tribe with control over access to the property. Future access to the property would require a signed third-party access agreement with consent to specific requirements. Unfortunately, neither the EPA nor the WDNR can legally enter into a third-party access agreement and this effectively ended EPA's involvement in the project and also limited the ability of the WDNR to complete the investigation.

REI was also unable to obtain access to the 14277 State Highway 70 West property (Haskell Lake Lodge) in 2018. Numerous attempts were made to contact the owner before each 2018 sample event. REI was contacted by the property owner after the October 2018 sample event and was informed that he was spending a great deal of time in Arkansas and probably did not receive the access requests.

Groundwater sampling was limited to just the former Tower Standard property in 2018 due to access limitations for both the 14257 State Highway 70 West property and the 14277 State Highway 70 West property.

2.0 Summary of Activities

2.1 Groundwater Monitoring and Analytical Results

Following the submittal of the 2016 Current Conditions Report, REI personnel had sampled the well network once in 2016 (July 26, 2016), no samples were collected in 2017 and REI completed three (3) rounds of groundwater sampling (at select wells) in 2018. All investigative waste was containerized and transported for final disposal at the City of Wausau waste water treatment facility. Water elevation measurements from the REI sampling events are presented in Table 1.

A diving groundwater contaminant plume has been observed during this site investigation. Vertical gradients were calculated across the MW18, MW19 and MW22 well nests for each sampling event. A downward gradient was observed across the well network. Copies of the vertical gradient calculations are included in Tables 2a-e.

Groundwater samples were collected from each monitoring well/piezometer using low flow sampling methodologies. Groundwater was extracted using a peristaltic pump and all field measurements were collected via a flow-through cell. The samples were placed in laboratory provided containers, packed on ice and submitted to a State Certified Laboratory for analysis. Groundwater analytical results are summarized in Tables 3a-s. Copies of the laboratory analytical reports are included as Appendix A.

Groundwater sample results for the most recent sampling event on October 25, 2018 documents residual groundwater contamination in concentrations exceeding the NR 140.10 Groundwater Quality Enforcement Standards (ES) for petroleum compounds at sample locations MW19@35-40 and MW21. MW19, MW19@35-40 and MW21 all exceeded the NR 140.10 Groundwater Quality Enforcement Standards (ES) for dissolved iron.

A water table contour map for the October 25, 2018 sample event included in Figure 3. Shallow groundwater is shown to be flowing south/southeast towards Lake Haskell, with Lake Haskell as the likely local discharge location for the shallow groundwater. A piezometric contour map could not be completed for the October 25, 2018 sampling event because MW18@35-40 had been damaged. The protective pipe appeared to have been hit by a vehicle and bent and the well integrity was unknown. A piezometric contour map was completed from the data collected on June 28, 2018 and is included in Figure 4. Figure 4 shows groundwater flowing west/southwesterly towards Haskell Lake Lodge.

Groundwater analytical data from the reopened investigation was compared to the historic Tower Standard investigation. Copies of the historic investigation groundwater analytical results summary tables are included in Appendix B along with a site map depicting the locations of the historical groundwater monitoring well network. Analytical results comparing the greatest reported petroleum related contaminant levels from the historical investigation (1997-2005) to the current investigation (2015-2018) are summarized in Table 4.

A close review of the data has resulted in the following observations:

- The groundwater analytical data seems to suggest that the two releases may not be consistent in chemical composition and are likely from different sources/releases.
- A separate source appears to be located on the 14257 State Highway 70 West property in the area of MW20.

- The groundwater analytical data collected for the initial Tower Standard investigation (1997-2005) documents a history of groundwater contaminant concentrations that are substantially lower than what was observed in the limited groundwater sampling results collected in 2015-2016 at MW20@20-25.
- MTBE, an additive used in unleaded gasoline, was detected in the groundwater samples collected from the initial Tower Standard investigation. MTBE was not detected in any of the samples collected on the 14257 State Highway 70 West property.
- 1,2-Dibromoethane, a lead scavenger for leaded gasoline, is only present in the groundwater samples collected at MW20@20-25. Additionally, the highest detectable dissolved lead concentrations are also located at MW20@20-25.

3.0 Conclusions and Recommendations

The 14257 State Highway 70 West property was never adequately investigated during the historical investigation (1997-2005) as REI was denied access by the Uran family (owners of the property at the time of the investigation). During the completion of the Targeted Brownfields Assessments (TBA) investigation groundwater samples were collected on the 14257 State Highway 70 West property and petroleum contamination was identified. The Tower Standard investigation was reopened in 2015 because it was determined that a previously unknown petroleum source was discovered on the 14257 State Highway 70 West property and Tower Standard was determined to be the likely source. A significant amount of resources from the State and Federal level were allocated to the subsequent investigation. Unfortunately, the petroleum release could not be completely investigated or remediated.

Site activities after 2016 were limited to groundwater sampling events only being completed on the former Tower Standard property due to adjacent property access restrictions. There were also concerns regarding the location of the eastern property line and monitoring well nest MW21/MW21@35-40 was not sampled until a boundary survey was completed and the exact location of the property line was identified. Following the completion of the boundary survey, MW21 was determined to be on the

former Tower Standard property and MW21@35-40 and MW21 (USGS) were located on the 14257 State Highway 70 West property.

Groundwater analytical data suggests that there are likely two (2) separate petroleum releases. The former Tower Standard release was of unleaded gasoline containing MTBE and the release associated with 14257 State Highway 70 West appears to be leaded gasoline containing 1,2-Dibromoethane.

The former Tower Standard release was identified by the presence of MTBE and lack of both dissolved lead and the lead scavenger, 1,2-Dibromoethane. The release under 14257 State Highway 70 West reported the presence of both dissolved lead and the lead scavenger, 1,2-Dibromoethane, and had no detectable MTBE and also had contaminant concentrations 2-4 times greater in 2016 than the former Tower Standard investigation maximum reported concentration from 1997-2005. If the release from the former Tower Standard property was the suspected source of the groundwater contamination identified at MW20 @20-25 it would be reasonable to expect the concentrations to be greater at the source, and that is not the case.

REI is asserting that there are two distinct contaminant sources and the release associated with the former Tower Standard site has been adequately investigated and remediated prior to case closure in 2006. The release identified during the Targeted Brownfields Assessments (TBA) investigation at 14257 State Highway 70 West has not been adequately investigated or remediated. REI is recommending that the former Tower Standard investigation be reviewed for case closure consideration. REI is also recommending the release identified at 14257 State Highway 70 West be investigated as a new release.

Table 2a
Vertical Gradient Documentation
Tower Standard
Lac du Flambeau, WI

	Piezometer Depth	Water Level Elevation	Elevation Difference	Vertical Difference	Vertical Gradient ft/ft (+/-)
April 26, 2016					
MW16		1,567.10	0.01	31.76	-0.0003
MW16@37-42	42'	1567.09			
MW17		1567.98	0.63	32.78	-0.0192
MW17@31-36	36'	1567.35			
MW18		1568.03	2.00	28.55	-0.0701
MW18@35-40	40'	1566.03			
MW19		1568.16	0.03	28.13	-0.0011
MW19@35-40	40'	1568.13			
MW20		1568.13	-0.01	14.03	0.0007
MW20@20-25	25'	1568.14			
MW21		1568.16	0.02	30.33	-0.0007
MW21@35-40	40'	1568.14			
MW22		1568.99	0.88	30.88	-0.0285
MW22@35-40	40'	1568.11			

Piezometer midpoint calculated from center of well screen

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Table 2b
Vertical Gradient Documentation
Tower Standard
Lac du Flambeau, WI

	Piezometer Depth	Water Level Elevation	Elevation Difference	Vertical Difference	Vertical Gradient ft/ft (+/-)
July 26, 2016					
MW16		1,566.87	-0.12	31.76	0.0038
MW16@37-42	42'	1566.99			
MW17		1567.42	0.33	32.78	-0.0101
MW17@31-36	36'	1567.09			
MW18		1567.43	0.17	28.55	-0.0060
MW18@35-40	40'	1567.26			
MW19		1567.62	-0.05	28.13	0.0018
MW19@35-40	40'	1567.67			
MW20		1567.70	0.01	14.03	-0.0007
MW20@20-25	25'	1567.69			
MW21		1567.72	0.03	30.33	-0.0010
MW21@35-40	40'	1567.69			
MW22		1568.27	0.52	30.88	-0.0168
MW22@35-40	40'	1567.75			

Piezometer midpoint calculated from center of well screen

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Table 2c
Vertical Gradient Documentation
Tower Standard
Lac du Flambeau, WI

	Piezometer Depth	Water Level Elevation	Elevation Difference	Vertical Difference	Vertical Gradient ft/ft (+/-)
February 19, 2018					
MW16		Not		31.76	
MW16@37-42	42'	Measured*			
MW17		Not		32.78	
MW17@31-36	36'	Measured*			
MW18		1566.93	0.20	28.55	-0.0070
MW18@35-40	40'	1566.73			
MW19		1567.12	0.03	28.13	-0.0011
MW19@35-40	40'	1567.09			
MW20		Not		14.03	
MW20@20-25	25'	Measured*			
MW21		Not		30.33	
MW21@35-40	40'	Measured*			
MW22		1567.40	0.16	30.88	-0.0052
MW22@35-40	40'	1567.24			

Piezometer midpoint calculated from center of well screen

Notes:
* = Access Denied - well not sampled

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Table 2d
Vertical Gradient Documentation
Tower Standard
Lac du Flambeau, WI

	Piezometer Depth	Water Level Elevation	Elevation Difference	Vertical Difference	Vertical Gradient ft/ft (+/-)
June 28, 2018					
MW16		Not		31.76	
MW16@37-42	42'	Measured*			
MW17		Not		32.78	
MW17@31-36	36'	Measured*			
MW18		1568.14	0.78	28.55	-0.0273
MW18@35-40	40'	1567.36			
MW19		1568.15	0.14	28.13	-0.0050
MW19@35-40	40'	1568.01			
MW20		Not		14.03	
MW20@20-25	25'	Measured*			
MW21		Not		30.33	
MW21@35-40	40'	Measured*			
MW22		1569.29	1.34	30.88	-0.0434
MW22@35-40	40'	1567.95			

Piezometer midpoint calculated from center of well screen

Notes:
* = Access Denied - well not sampled

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Table 2e
Vertical Gradient Documentation
Tower Standard
Lac du Flambeau, WI

	Piezometer Depth	Water Level Elevation	Elevation Difference	Vertical Difference	Vertical Gradient ft/ft (+/-)
October 25, 2018					
MW16		Not		31.76	
MW16@37-42	42'	Measured*			
MW17		Not		32.78	
MW17@31-36	36'	Measured*			
MW18		1567.53		28.55	
MW18@35-40	40'	Not Measured**			
MW19		1567.12	0.03	28.13	-0.0011
MW19@35-40	40'	1567.09			
MW20		Not		14.03	
MW20@20-25	25'	Measured*			
MW21		1567.58		30.33	
MW21@35-40	40'	Not Measured*			
MW22		1567.40	0.16	30.88	-0.0052
MW22@35-40	40'	1567.24			

Piezometer midpoint calculated from center of well screen

Notes:
* = Access Denied - well not sampled
** = Well Damaged - depth to water not measured

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Table 1
Depth to Water and Water Level Elevations
Tower Standard
Lac du Flambeau, WI

Depth to Water (feet) below Reference Elevation

Date	MW1 (LDF)	MW2 (LDF)	MW3 (LDF)	MW16	MW16@37-42	16 (USGS)	MW17	MW17@31-36	MW18	MW18@35-40	MW19	MW19@35-40	MW20	MW20@20-25	MW21	MW21@35-40	21 (USGS)	MW22	MW22@35-40
11/10/2015	6.58	9.10	6.87																
11/11/2015											8.97	9.26	7.63	7.85	7.42	7.81			
11/17/2015				2.02	1.91		8.01	8.44	9.48	9.90								7.19	8.06
4/26/2016	5.58	8.60	5.84	2.10	2.05		8.00	8.64	9.50	11.52	8.45	8.79	7.18	7.39	6.95	7.33		6.99	8.07
7/26/2016	6.15	9.02	6.73	2.33	2.15		8.56	8.90	10.10	10.29	8.99	9.25	7.61	7.84	7.39	7.78		7.71	8.43
3/1/2017	NM	8.66	NM	2.06	1.90	2.52	7.86	8.60	9.12	9.86	8.32	8.63	6.98	7.23	6.75	7.17	7.05	6.86	8.03
2/19/2018	NM	NM	NM	NM	NM	NM	NM	NM	10.60	10.82	9.49	9.83	NM	NM	NM	NM	NM	8.58	8.94
6/28/2018	NM	NM	NM	NM	NM	NM	NM	NM	9.39	10.19	8.46	8.91	NM	NM	NM	NM	NM	6.69	8.23
10/25/2018	NM	NM	NM	NM	NM	NM	NM	NM	10.00	NM*	8.99	9.38	NM	NM	7.53	NM	NM	7.59	8.65

Measuring Point Elevations (top of well casing)

Elevations referenced to a U.S.G.S. Benchmark (feet MSL) - provided by others

Top of Casing	1575.57	1577.84	1575.50	1569.20	1569.14		1575.98	1575.99	1577.53	1577.55	1576.61	1576.92	1575.31	1575.53	1575.11	1575.47		1575.98	1576.18
Top of Screen				1574.17	1537.84		1570.94	1537.70	1561.73	1541.98	1569.45	1542.53	1573.01	1556.61	1572.37	1540.31		1571.07	1540.61
Bottom of Screen				1564.17	1532.84		1560.94	1532.70	1551.73	1536.98	1559.45	1537.53	1563.01	1551.61	1562.37	1535.31		1561.07	1535.61
Screen Length				10.00	5.00		10.00	5.00	10.00	5.00	10.00	5.00	10.00	5.00	10.00	5.00		10.00	5.00

Ground Surface Elevation

Initial Survey	1572.66	1578.15	1575.63	1569.60	1569.50		1576.44	1576.26	1575.00	1575.15	1574.15	1574.31	1575.89	1575.87	1575.65	1575.72		1576.60	1576.61

Depth to Water (feet) below Top of Casing

Average	6.58	9.10	6.87	2.02	1.91		8.01	8.44	9.48	9.90	8.97	9.26	7.63	7.85	7.42	7.81		7.19	8.06
Maximum	6.58	9.10	6.87	2.33	2.15		8.56	8.90	10.60	11.52	9.49	9.83	7.63	7.85	7.53	7.81		8.58	8.94
Minimum	5.58	8.60	5.84	2.02	1.90		7.86	8.44	9.12	9.86	8.32	8.63	6.98	7.23	6.75	7.17		6.69	8.03
Range	1.00	0.50	1.03	0.31	0.25		0.70	0.46	1.48	1.66	1.17	1.20	0.65	0.62	0.78	0.64		1.89	0.91

Water Level Elevation (feet MSL)

Date	MW1 (LDF)	MW2 (LDF)	MW3 (LDF)	MW16	MW16@37-42	16 (USGS)	MW17	MW17@31-36	MW18	MW18@35-40	MW19	MW19@35-40	MW20	MW20@20-25	MW21	MW21@35-40	21 (USGS)	MW22	MW22@35-40
11/10/2015	1568.99	1568.74	1568.63																
11/11/2015											1567.64	1567.66	1567.68	1567.68	1567.69	1567.66			
11/17/2015				1567.18	1567.23		1567.97	1567.55	1568.05	1567.65								1568.79	1568.12
4/26/2016	1569.99	1569.24	1569.66	1567.10	1567.09		1567.98	1567.35	1568.03	1566.03	1568.16	1568.13	1568.13	1568.14	1568.16	1568.14		1568.99	1568.11
7/26/2016	1569.42	1568.82	1568.77	1566.87	1566.99		1567.42	1567.09	1567.43	1567.26	1567.62	1567.67	1567.70	1567.69	1567.72	1567.69		1568.27	1567.75
3/1/2017		1569.18		1567.14	1567.24	-2.52	1568.12	1567.39	1568.41	1567.69	1568.29	1568.29	1568.33	1568.30	1568.36	1568.30	-7.05	1569.12	1568.15
2/19/2018									1566.93	1566.73	1567.12	1567.09						1567.40	1567.24
6/28/2018									1568.14	1567.36	1568.15	1568.01						1569.29	1567.95
10/25/2018									1567.53		1567.62	1567.54			1567.58			1568.39	1567.53

Notes:
* = MW18@35-40 was completed as a pro-top well. Well appeared to have been run over and pro-top was bent and water level measurements were not collected.

Table 3a
Summary of Groundwater Analytical Results
Geoprobe Event
Tower Standard
Lac du Flambeau, Wisconsin

	Sample Location-->			BH-17	BH-22A	BH-25 @ 27'	BH-26 @ 27'	BH-30 @25'	BH-35B	BH-36 @ 39'	BH-37B @ 40'
			Date ->	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
VOC Parameters											
Benzene	5	0.5	µg/l	**115**	**10,500**	< 0.40	**133**	< 0.40	< 0.40	*1.6*	< 0.40
Toluene	800	160	µg/l	**9,650**	**47,500**	< 0.39	*451*	< 0.39	< 0.39	< 0.39	< 0.39
Ethylbenzene	700	140	µg/l	**2,150**	**4,080**	< 0.39	*301*	18.4	6.1	< 0.39	< 0.39
Xylenes (mixed isomers)	2,000	400	µg/l	**9,520**	**21,360**	< 0.80	*1,156*	14.0	16.4	4.2	< 0.80
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 24.2	< 121	< 0.48	2.9*	< 0.48	< 0.48	2.0	< 0.48
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**2,900**	**4,163**	< 0.42	*473*	21.9	*120.2*	2.9	< 0.42
Naphthalene	100	10	µg/l	**532**	**927**	< 0.42	*76.4*	5.6	6.5	1.5	< 0.42
PAH Parameters			µg/l								
Acenaphthene			µg/l	NA	NA	NA	NA	NA	0.045*	NA	NA
Acenaphthylene			µg/l	NA	NA	NA	NA	NA	0.021*	NA	NA
Anthracene	3,000	600	µg/l	NA	NA	NA	NA	NA	< 0.0073	NA	NA
Benzo(a)Anthracene			µg/l	NA	NA	NA	NA	NA	< 0.0092	NA	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	NA	NA	NA	NA	NA	< 0.0080	NA	NA
Benzo(b)Fluoranthene	0.2	0.02	µg/l	NA	NA	NA	NA	NA	< 0.0096	NA	NA
Benzo(ghi)Perylene			µg/l	NA	NA	NA	NA	NA	< 0.0063	NA	NA
Benzo(k)Fluoranthene			µg/l	NA	NA	NA	NA	NA	< 0.010	NA	NA
Chrysene	0.2	0.02	µg/l	NA	NA	NA	NA	NA	< 0.0076	NA	NA
Dibenzo(a,h)anthracene			µg/l	NA	NA	NA	NA	NA	< 0.010	NA	NA
Fluoranthene	400	80	µg/l	NA	NA	NA	NA	NA	< 0.017	NA	NA
Fluorene	400	80	µg/l	NA	NA	NA	NA	NA	0.024*	NA	NA
Indeno(1,2,3-cd)Pyrene			µg/l	NA	NA	NA	NA	NA	< 0.0065	NA	NA
1-Methyl Naphthalene			µg/l	NA	NA	NA	NA	NA	11.7	NA	NA
2-Methyl Naphthalene			µg/l	NA	NA	NA	NA	NA	18.5	NA	NA
Naphthalene	100	10	µg/l	NA	NA	NA	NA	NA	0.9	NA	NA
Phenanthrene			µg/l	NA	NA	NA	NA	NA	0.020*	NA	NA
Pyrene	250	50	µg/l	NA	NA	NA	NA	NA	< 0.014	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
*= Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3b
Summary of Groundwater Analytical Results
MW1-LDF
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/10/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	< 0.50	< 0.50	< 0.50	Well	Well	Well
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	Not	Not	Not
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 1.0	< 1.0			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.50	< 0.50			
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5			
1,2-Dichloroethane	5	0.5	µg/l	< 0.17	< 0.17	< 0.17			
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.18	< 0.18	< 0.18			
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14			
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0	< 3.0			
Dissolved Cadmium	5	0.5	µg/l	*1.2**	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	*204*	25.6*	59.4*			
Nitrate (as N)	10	2	mg/l	< 0.095	5.7	0.65			
Sulfate	250	125	mg/l	21.2	14.5	14.7			
Field Measurements									
Temperature			°F	50.55	42.33	54.83			
Conductivity			µS/cm	547	1310	759			
pH				6.37	6.12	6.65			
Dissolved Oxygen			mg/l	0.31	1.24	0.34			
ORP			mV	181.3	239.6	71.2			

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

Table 3c
Summary of Groundwater Analytical Results
MW2-LDF
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/10/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	< 0.50	< 0.50	< 0.50	Well	Well	Well
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	Not	Not	Not
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 1.0	< 1.0			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.50	< 0.50			
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5			
1,2-Dichloroethane	5	0.5	µg/l	< 0.17	< 0.17	< 0.17			
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.18	< 0.18	< 0.18			
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14			
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
Inorganics									
Dissolved Lead	15	1.5	µg/l	3.2*	< 3.0	< 3.0			
Dissolved Cadmium	5	0.5	µg/l	*1.2**	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	16.3*	< 12.9	< 12.9			
Nitrate (as N)	10	2	mg/l	0.48	0.56	0.38			
Sulfate	250	125	mg/l	22.8	16.9	21.1			
Field Measurements									
Temperature			°F	53.11	44.35	53.14			
Conductivity			µS/cm	2,035	1,395	1,452			
pH				7.24	7.22	7.41			
Dissolved Oxygen			mg/l	2.13	2.94	0.17			
ORP			mV	270.2	200.6	45.1			

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

Table 3d
Summary of Groundwater Analytical Results
MW3-LDF
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/10/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	< 0.50	< 0.50	< 0.50	Well	Well	Well
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	Not	Not	Not
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 1.0	< 1.0			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.50	< 0.50			
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5			
1,2-Dichloroethane	5	0.5	µg/l	< 0.17	< 0.17	< 0.17			
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.18	< 0.18	< 0.18			
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14			
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0	< 3.0			
Dissolved Cadmium	5	0.5	µg/l	*1.4**	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	< 12.9	< 12.9	< 12.9			
Nitrate (as N)	10	2	mg/l	0.35	0.87	0.69			
Sulfate	250	125	mg/l	2.8*	2.6*	2.3*			
Field Measurements									
Temperature			°F	52.43	41.73	55.66			
Conductivity			µS/cm	139	41	77			
pH				6.72	6.93	7.58			
Dissolved Oxygen			mg/l	7.78	11.17	7.11			
ORP			mV	278.1	248.1	98.8			

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

Table 3e
Summary of Groundwater Analytical Results
MW16
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	**6.3**	*0.84**	*0.96**	Well	Well	Well
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	Not	Not	Not
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	2.7	< 1.0	< 1.0			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1.1	< 0.50	< 0.50			
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5			
1,2-Dichloroethane	5	0.5	µg/l	< 0.50	< 0.50	< 0.50			
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.18	< 0.18	< 0.18			
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14			
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0	3.6*			
Dissolved Cadmium	5	0.5	µg/l	< 0.60	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	**15,400**	**29,400**	**17,500**			
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095	< 0.095			
Sulfate	250	125	mg/l	< 10.0	10.9*	< 10.0			
Field Measurements									
Temperature			°F	52.03	43.9	56.45			
Conductivity			µS/cm	472	237	682			
pH				6.63	6.68	7.15			
Dissolved Oxygen			mg/l	0.15	0.13	0.20			
ORP			mV	1.5	5.2	-58.1			

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

Table 3f
Summary of Groundwater Analytical Results
MW16@37-42
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	**1,340**	**1,030**	**1,050**	Well	Well	Well
Toluene	800	160	µg/l	22.1	15.2	17.7	Not	Not	Not
Ethylbenzene	700	140	µg/l	60.3	32.3	37.7	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	*1,520.2*	*1,322.1*	*1,483.9*			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 1.7	< 1.7	< 1.7			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*371.1*	*287.0*	*382.3*			
Naphthalene	100	10	µg/l	*84.7*	*52.6*	*72.7*			
1,2-Dichloroethane	5	0.5	µg/l	< 1.7	< 1.7	< 1.7			
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8	< 1.8	< 1.2			
Isopropylbenzene			µg/l	17.0	9.3*	14.3			
n-Butylbenzene			µg/l	< 5.0	< 5.0	< 5.0			
n-Propylbenzene			µg/l	45.5	26.7	41.6			
Inorganics									
Dissolved Lead	15	1.5	µg/l	*4.5**	< 3.0	< 3.0			
Dissolved Cadmium	5	0.5	µg/l	< 0.60	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	**5,920**	**9,020**	**10,900**			
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095	< 0.095			
Sulfate	250	125	mg/l	< 2.0	2.3*	< 10.0			
Field Measurements									
Temperature			°F	50.45	48.13	51.81			
Conductivity			µS/cm	843	745	760			
pH				7.31	7.45	7.49			
Dissolved Oxygen			mg/l	0.21	0.06	0.04			
ORP			mV	-378	-81.3	-107.1			

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

Table 3g
Summary of Groundwater Analytical Results
MW17
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	*1.0*	< 0.50	< 0.50	Well	Well	Well
Toluene	800	160	µg/l	2.3	< 0.50	< 0.50	Not	Not	Not
Ethylbenzene	700	140	µg/l	0.51*	< 0.50	< 0.50	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	2.3	< 1.0	< 1.0			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	0.60*	< 0.50	< 0.50			
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5			
1,2-Dichloroethane	5	0.5	µg/l	< 1.7	< 0.17	< 0.17			
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8	< 0.18	< 0.18			
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14			
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0	3.9*			
Dissolved Cadmium	5	0.5	µg/l	< 0.60	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	**1,060**	**1,390**	**1,820**			
Nitrate (as N)	10	2	mg/l	< 0.095	1.9	1.1			
Sulfate	250	125	mg/l	6.1	24.2	18.6			
Field Measurements									
Temperature			°F	53.06	42.94	58.77			
Conductivity			µS/cm	508	667	729			
pH				6.26	6.44	6.5			
Dissolved Oxygen			mg/l	1.55	3.62	0.44			
ORP			mV	83.0	182.8	37.8			

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

Table 3h
Summary of Groundwater Analytical Results
MW17@31-36
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	< 0.50	< 0.50	< 0.50	Well	Well	Well
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	Not	Not	Not
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 1.0	< 1.0			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.50	< 0.50			
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5			
1,2-Dichloroethane	5	0.5	µg/l	< 1.7	< 1.7	< 1.7			
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8	< 1.8	< 1.8			
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14			
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50			
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0	3.4*			
Dissolved Cadmium	5	0.5	µg/l	< 0.60	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	**4,980**	**448**	**2,430**			
Nitrate (as N)	10	2	mg/l	0.68	< 0.095	< 0.095			
Sulfate	250	125	mg/l	20.9	4.2	2.4*			
Field Measurements									
Temperature			°F	50.78	46.26	52.65			
Conductivity			µS/cm	590	563	633			
pH				7.08	7.07	7.16			
Dissolved Oxygen			mg/l	3.00	1.10	0.00			
ORP			mV	-282.4	200.7	-48.7			

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

Table 3i
Summary of Groundwater Analytical Results
MW18
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.25
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.17
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.87
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 1.2
1,2-Dichloroethane	5	0.5	µg/l	< 1.7	< 1.7	< 1.7	< 0.17	< 0.17	< 0.28
1,2-Dibromoethane (EDB)	0.05	0.005	µg/l	< 1.8	< 1.8	< 1.8	< 0.18	< 0.18	< 0.83
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14	NA	NA	NA
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50	NA	NA	NA
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50	NA	NA	NA
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0	< 3.0	NA	< 4.3	< 6.4
Dissolved Cadmium	5	0.5	µg/l	< 0.60	< 0.60	< 0.60	NA	< 1.3	< 1.3
Dissolved Iron	300	150	µg/l	< 12.9	< 12.9	32.8	NA	< 15.5	< 35.4
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095	1.9	NA	< 0.075	< 0.095
Sulfate	250	125	mg/l	13.5	22.2	15.9	NA	13.6	7.9
Field Measurements									
Temperature			°F	51.8	41.54	56.38	40.19	52.36	53.0
Conductivity			µS/cm	509	337	332	163	194	292
pH				6.46	6.69	6.81	6.70	7.55	6.43
Dissolved Oxygen			mg/l	3.73	2.5	1.69	5.70	3.34	6.40
ORP			mV	229.6	261.9	83.9	22.6	89.1	95.5

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

Table 3j
Summary of Groundwater Analytical Results
MW18@35-40
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	Well Damaged - Not Sampled
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 1.0	< 1.0	< 1.5	< 1.5	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	
1,2-Dichloroethane	5	0.5	µg/l	< 1.7	< 1.7	< 1.7	< 0.17	< 0.17	
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8	< 1.8	< 1.8	< 0.18	< 0.18	
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14	NA	NA	
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50	NA	NA	
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50	NA	NA	
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 0.30	< 0.30	NA	6.6*	
Dissolved Cadmium	5	0.5	µg/l	*0.63**	< 0.60	< 0.60	NA	< 1.3	
Dissolved Iron	300	150	µg/l	*247*	< 12.9	102	NA	36.3*	
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095	< 0.095	NA	< 0.075	
Sulfate	250	125	mg/l	9.1	10.0	7.7	NA	4.5	
Field Measurements									
Temperature			°F	52.36	46.04	54.83	42.4	52.85	
Conductivity			µS/cm	439	377	311	110	227	
pH				7.13	6.78	6.86	6.91	8.09	
Dissolved Oxygen			mg/l	5.98	2.18	0.23	5.74	1.28	
ORP			mV	93.1	249.1	37.4	29.6	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
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3k
Summary of Groundwater Analytical Results
MW19
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.25
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.17
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.87
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 1.2
1,2-Dichloroethane	5	0.5	µg/l	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.28
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.83
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14	NA	NA	NA
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50	NA	NA	NA
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50	NA	NA	NA
Inorganics									
Dissolved Lead	15	1.5	µg/l	*3.4**	< 3.0	< 3.0	NA	< 4.3	< 6.4
Dissolved Cadmium	5	0.5	µg/l	*0.90**	< 0.60	< 0.60	NA	< 1.3	< 1.3
Dissolved Iron	300	150	µg/l	**704**	139	**539**	NA	143	**631**
Nitrate (as N)	10	2	mg/l	< 0.095	0.42	0.42	NA	0.13*	< 0.095
Sulfate	250	125	mg/l	7.0	7.1	6.6	NA	4.8	5.0
Field Measurements									
Temperature			°F	52.96	44.86	54.8	41.51	53.3	53.5
Conductivity			µS/cm	470	232	180	212	108	210.4
pH				6.32	6.67	6.65	6.02	7.25	6.31
Dissolved Oxygen			mg/l	0.52	1.46	0.09	2.24	0.9	4.16
ORP			mV	117.9	149.0	39.4	5.4	87.5	93.2

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

Table 31
Summary of Groundwater Analytical Results
MW19@35-40
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	**117**	**298**	**6.2**	**870**	**275**	**363**
Toluene	800	160	µg/l	39.1	189	20.7	**987**	*480*	**498**
Ethylbenzene	700	140	µg/l	*395*	**1,260**	*194*	**1,820**	**1,220**	**1,120**
Xylenes (mixed isomers)	2,000	400	µg/l	*898.1*	**3,514**	212.2	**7,910**	**3,570**	**3,350**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.87	< 1.7	< 0.87	< 4.4	< 4.4	< 31.1
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*165.8*	**918**	*149.4*	**1,323**	**1,127**	**979**
Naphthalene	100	10	µg/l	*75.1*	**207**	*19.1**	**309**	**269**	**188**
1,2-Dichloroethane	5	0.5	µg/l	< 0.84	< 1.7	< 0.84	< 4.2	< 4.2	< 7.0
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.89	< 1.8	< 0.89	< 4.4	< 4.4	< 20.7
Isopropylbenzene			µg/l	< 0.14	29.8	8.5	NA	NA	NA
n-Butylbenzene			µg/l	3.7*	< 5.0	< 2.5	NA	NA	NA
n-Propylbenzene			µg/l	35.8	99.3	20.2	NA	NA	NA
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0	< 3.0	NA	< 4.3	< 6.4
Dissolved Cadmium	5	0.5	µg/l	*1.1**	< 0.60	< 0.60	NA	< 1.3	< 1.3
Dissolved Iron	300	150	µg/l	**3,820**	**19,500**	**9,350**	NA	**28,800**	**28,700**
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095	< 0.095	NA	< 0.38	< 0.095
Sulfate	250	125	mg/l	10.8*	< 10.0	< 10.0	NA	< 0.50	< 5.0
Field Measurements									
Temperature			°F	52.4	48.75	53.88	44.83	51.84	52.1
Conductivity			µS/cm	326	341	269	166	320	445.6
pH				7.41	6.77	6.85	6.69	7.15	6.60
Dissolved Oxygen			mg/l	5.58	0.1	0.09	2.99	1.03	0.63
ORP			mV	-15.3	-5.0	-13.2	-6.7	-9.3	-106.9

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

Table 3m
Summary of Groundwater Analytical Results
MW20
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	**10,100**	**5,320**	**4,490**	Well	Well	Well
Toluene	800	160	µg/l	**35,800**	**27,500**	**22,800**	Not	Not	Not
Ethylbenzene	700	140	µg/l	**3,180**	**4,040**	**3,670**	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	**19,230**	**22,080**	**20,030**			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 34.8	< 17.4	< 17.4			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**1,939**	**2,792**	**2,683**			
Naphthalene	100	10	µg/l	**654***	**573**	**615**			
1,2-Dichloroethane	5	0.5	µg/l	< 100	< 16.8	< 16.8			
1,2-Dibromoethane	0.05	0.005	µg/l	< 35.6	< 17.8	< 17.8			
Isopropylbenzene			µg/l	64.3*	65.1*	70.6*			
n-Butylbenzene			µg/l	< 100	< 50	< 50			
n-Propylbenzene			µg/l	192*	223	222			
Inorganics									
Dissolved Lead	15	1.5	µg/l	***20.7***	*8.6**	*8.7**			
Dissolved Cadmium	5	0.5	µg/l	*1.7**	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	**1,440**	**12,500**	**12,800**			
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095	< 0.095			
Sulfate	250	125	mg/l	< 10.0	< 10.0	< 10.0			
Field Measurements									
Temperature			°F	58.83	48.49	62.27			
Conductivity			µS/cm	1,091	870	1,060			
pH				6.42	6.67	6.64			
Dissolved Oxygen			mg/l	4.33	0.39	0.16			
ORP			mV	103.1	29.2	0.6			

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

Table 3n
Summary of Groundwater Analytical Results
MW20@20-25
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	**17,600**	**17,700**	**44,900**	Well	Well	Well
Toluene	800	160	µg/l	**21,600**	**41,800**	**37,300**	Not	Not	Not
Ethylbenzene	700	140	µg/l	**2,640**	**2,950**	**10,400**	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	**14,060**	**17,690**	**56,800**			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 21.8	< 69.7	< 69.7			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**1,793**	**1,910**	**7,620**			
Naphthalene	100	10	µg/l	**381***	< 1,000	**1,380***			
1,2-Dichloroethane	5	0.5	µg/l	< 21.0	< 62.7	< 67.2			
1,2-Dibromoethane	0.05	0.005	µg/l	**64.0***	< 71.1	**192***			
Isopropylbenzene			µg/l	54.4*	< 57.3	204*			
n-Butylbenzene			µg/l	< 62.5	< 200	< 200			
n-Propylbenzene			µg/l	168	< 200	588			
Inorganics									
Dissolved Lead	15	1.5	µg/l	**31.5**	**37.1**	**31.3**			
Dissolved Cadmium	5	0.5	µg/l	*0.86**	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	**6,130**	**5,520**	**5,230**			
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095	< 0.095			
Sulfate	250	125	mg/l	< 10.0	< 10.0	< 10.0			
Field Measurements									
Temperature			°F	55.64	49.87	58.27			
Conductivity			µS/cm	1,010	845	954			
pH				6.25	6.43	6.54			
Dissolved Oxygen			mg/l	3.83	0.1	0.27			
ORP			mV	88.2	75.9	44.7			

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

Table 3o
Summary of Groundwater Analytical Results
MW21
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	**632**	**457**	**539**	Well	Well	**163**
Toluene	800	160	µg/l	**2,510**	**4,120**	**4,380**	Not	Not	**871**
Ethylbenzene	700	140	µg/l	**2,600**	**1,600**	**2,000**	Sampled	Sampled	**1,280**
Xylenes (mixed isomers)	2,000	400	µg/l	**8,570**	**9,570**	**10,920**			**6,550**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 4.4	< 8.7	< 8.7			< 62.3
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**2,435**	**3,379**	**3,871**			**2,472**
Naphthalene	100	10	µg/l	**640**	**630**	**693**			**459**
1,2-Dichloroethane	5	0.5	µg/l	< 4.2	< 8.4	< 8.4			< 14.0
1,2-Dibromoethane	0.05	0.005	µg/l	< 4.4	< 8.9	< 8.9			< 41.5
Isopropylbenzene			µg/l	66.1	52.5	74			NA
n-Butylbenzene			µg/l	46.3	< 25	< 25			NA
n-Propylbenzene			µg/l	228	181	238			NA
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	*7.7**	*7.7**			< 5.9
Dissolved Cadmium	5	0.5	µg/l	*0.69**	< 0.60	< 0.60			< 1.3
Dissolved Iron	300	150	µg/l	**27,900**	**16,900**	**19,300**			**18,400**
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095	< 0.095			< 0.095
Sulfate	250	125	mg/l	< 10.0	11.0*	< 10.0			< 5.0
Field Measurements									
Temperature			°F	57.29	46.73	54.03			57.3
Conductivity			µS/cm	470	470	518			221
pH				6.61	6.56	6.62			6.41
Dissolved Oxygen			mg/l	1.76	0.48	0.10			1.6
ORP			mV	-1.7	28.6	-5.9			-49.0

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

Table 3p
Summary of Groundwater Analytical Results
MW21@35-40
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	**1,110**	**35.5**	**363**	Well	Well	Well
Toluene	800	160	µg/l	*686*	2.2	**873**	Not	Not	Not
Ethylbenzene	700	140	µg/l	*274*	< 0.50	11.9	Sampled	Sampled	Sampled
Xylenes (mixed isomers)	2,000	400	µg/l	*1,406*	27.9	*417*			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 1.7	0.20*	< 1.7			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*339.5*	8.3	34.7			
Naphthalene	100	10	µg/l	*63.1*	2.9*	< 25			
1,2-Dichloroethane	5	0.5	µg/l	< 1.7	< 0.24	< 1.7			
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8	< 0.18	< 1.8			
Isopropylbenzene			µg/l	9.0*	0.27*	< 1.4			
n-Butylbenzene			µg/l	14.6	< 0.50	< 5.0			
n-Propylbenzene			µg/l	31.4	1.3	< 5.0			
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0	< 3.0			
Dissolved Cadmium	5	0.5	µg/l	< 0.60	< 0.60	< 0.60			
Dissolved Iron	300	150	µg/l	**44,600**	**66,600**	**7,810**			
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095	< 0.095			
Sulfate	250	125	mg/l	< 2.0	< 10.0	< 10.0			
Field Measurements									
Temperature			°F	53.15	51.16	56.82			
Conductivity			µS/cm	1,615	1,999	648			
pH				6.5	6.6	7.01			
Dissolved Oxygen			mg/l	3.82	0.24	0.07			
ORP			mV	29.2	-5.8	-25.1			

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

Table 3q
Summary of Groundwater Analytical Results
MW22
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.25
Toluene	800	160	µg/l	2.5	1.1	0.52*	< 2.0	< 0.50	< 0.17
Ethylbenzene	700	140	µg/l	11.9	8.8	20.6	43.9	< 0.50	1.2
Xylenes (mixed isomers)	2,000	400	µg/l	55.1	42.0	61.3	119	< 1.5	3.3
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17	< 0.7	< 0.17	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	80.2	67.9	*113.8*	*462.8*	*< 0.50*	*4.4*
Naphthalene	100	10	µg/l	5.2	5.8	*21.0*	*58.4*	*< 2.5*	*< 1.2*
1,2-Dichloroethane	5	0.5	µg/l	< 1.7	< 1.7	< 0.17	< 0.67	< 0.17	< 0.28
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8	< 1.8	< 0.18	< 0.71	< 0.18	< 0.83
Isopropylbenzene			µg/l	1.0	0.98*	4.6	NA	NA	NA
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50	NA	NA	NA
n-Propylbenzene			µg/l	2.3	2.6	9.2	NA	NA	NA
Inorganics									
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0	3.6*	NA	< 4.3	< 6.4
Dissolved Cadmium	5	0.5	µg/l	< 0.60	< 0.60	< 0.60	NA	< 1.3	< 1.3
Dissolved Iron	300	150	µg/l	63.4*	*183*	*264*	NA	*< 15.5*	< 35.4
Nitrate (as N)	10	2	mg/l	*3.9*	**23.8**	**19.5**	NA	*9.6*	< 9.7
Sulfate	250	125	mg/l	9.5	10.1	8.1	NA	16.3	13.2
Field Measurements									
Temperature			°F	54.12	43.71	59.35	41.46	59.84	55.9
Conductivity			µS/cm	204	450	5.98	461	215	227.6
pH				6.46	6.45	6.59	6.53	7.75	6.54
Dissolved Oxygen			mg/l	1.02	6.28	1.86	3.65	7.97	4.68
ORP			mV	229.4	221.7	65.4	29.5	89.5	140.5

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

Enforcement Standard exceeded	**BOLD**
Preventive Action Limit exceeded	*Italics*

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

Table 3r
Summary of Groundwater Analytical Results
MW22@35-40
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2015	4/26/2016	7/26/2016	2/19/2018	6/28/2018	10/25/2018
Detected VOC Parameters	ES	PAL	Units						
Benzene	5	0.5	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.25
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.17
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	0.75*	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.84
Naphthalene	100	10	µg/l	< 2.5	< 2.5	< 2.5	< 2.5	< 1.5	< 1.2
1,2-Dichloroethane	5	0.5	µg/l	< 1.7	< 1.7	< 1.7	< 0.17	< 0.17	< 0.28
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8	< 1.8	< 1.8	< 0.18	< 0.18	< 0.83
Isopropylbenzene			µg/l	< 0.14	< 0.14	< 0.14	NA	NA	NA
n-Butylbenzene			µg/l	< 0.50	< 0.50	< 0.50	NA	NA	NA
n-Propylbenzene			µg/l	< 0.50	< 0.50	< 0.50	NA	NA	NA
Inorganics									
Dissolved Lead	15	1.5	µg/l	*3.7**	< 3.0	< 3.0	NA	< 4.3	< 6.4
Dissolved Cadmium	5	0.5	µg/l	< 0.60	< 0.60	< 0.60	NA	< 1.3	< 1.3
Dissolved Iron	300	150	µg/l	< 12.9	< 12.9	30.2*	NA	< 15.5	< 35.4
Nitrate (as N)	10	2	mg/l	0.38	0.24*	0.24*	NA	0.23	< 0.095
Sulfate	250	125	mg/l	29.3	21.3	20.5	NA	22.5	25.7
Field Measurements									
Temperature			°F	52.9	45.86	52.4	43.36	52.84	54.3
Conductivity			µS/cm	388	1,017	1,587	841	1,454	2,025
pH				7.83	7.51	7.87	7.19	7.05	7.40
Dissolved Oxygen			mg/l	3.55	4.66	0.02	0.82	5.6	4.56
ORP			mV	249.5	239.1	-6.5	26.1	37.5	142.8

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

Table 3s
Summary of Groundwater Analytical Results
Potable Well Sampling
Tower Standard
Lac du Flambeau, Wisconsin

				Original Well		Replacement Well	
			Date ->	6/28/2018	8/27/2018	6/28/2018	8/27/2018
Detected VOC Parameters	ES	PAL	Units				
Benzene	5	0.5	µg/l	< 0.11	NA	< 0.11	NA
Toluene	800	160	µg/l	< 0.17	NA	< 0.17	NA
Ethylbenzene	700	140	µg/l	< 0.14	NA	< 0.14	NA
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.24	NA	< 0.24	NA
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.097	NA	< 0.097	NA
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.093	NA	< 0.093	NA
Naphthalene	100	10	µg/l	< 0.42	NA	< 0.42	NA
1,2-Dichloroethane	5	0.5	µg/l	< 0.11	NA	< 0.11	NA
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.14	NA	< 0.14	NA
Isopropylbenzene			µg/l	< 0.095	NA	< 0.095	NA
n-Butylbenzene			µg/l	< 0.12	NA	< 0.12	NA
n-Propylbenzene			µg/l	< 0.11	NA	< 0.11	NA
Bacteria Analysis							
Total Coliforms				NA	Absent	NA	Absent
E Coli				NA	Absent	NA	Absent

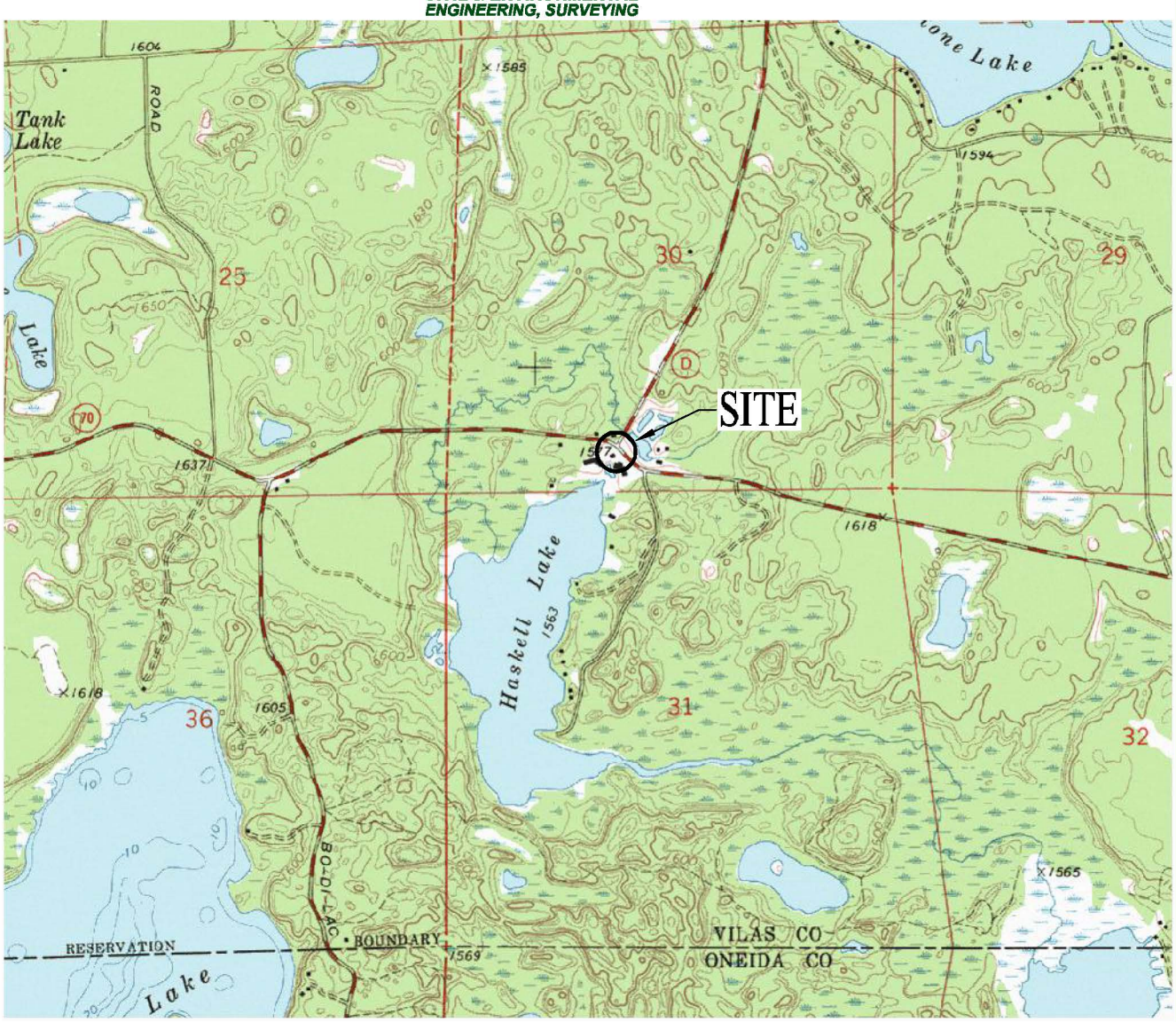
Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
NA = Not Analyzed
NS = Not Sampled
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 4
Summary of Groundwater Analytical Results
Historical Comparison
Tower Standard
Lac du Flambeau, Wisconsin

				Greatest Recorded Concentration Current Investigation			**Greatest Recorded Concentration Historical Investigation (1997-2005)**			
			Sample Location ->	MW20 @20-25			MW1d	MW9	RW1	RW4
			Screened Depth (ft) ->	20-25			35-37	35-40	32.5-62.5	6-14
			Date ->	11/11/2015	4/26/2016	7/26/2016				
Detected VOC Parameters	ES	PAL	Units							
Benzene	5	0.5	µg/l	**17,600**	**17,700**	**44,900**	**14,000**	**8,000**	**3,800**	**8,200**
Toluene	800	160	µg/l	**21,600**	**41,800**	**37,300**	**10,400**	**2,660**	**1,900**	**21,000**
Ethylbenzene	700	140	µg/l	**2,640**	**2,950**	**10,400**	**1,550**	**1,800**	*580*	**2,600**
Xylenes (mixed isomers)	2,000	400	µg/l	**14,060**	**17,690**	**56,800**	**6,490**	**3,380**	**2,050**	**13,200**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 21.8	< 69.7	< 69.7	**590**	**334**	**170**	**130**
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**1,793**	**1,910**	**7,620**	**1,340**	**761**	**750**	**3,460**
Naphthalene	100	10	µg/l	**381***	< 1,000	**1,380***	**230**	**117**	**100**	**640**
1,2-Dichloroethane	5	0.5	µg/l	< 21.0	< 62.7	< 67.2	< 200	Not Analyzed	Not Analyzed	Not Analyzed
1,2-Dibromoethane	0.05	0.005	µg/l	**64.0***	< 71.1	**192***	< 200			
Isopropylbenzene			µg/l	54.4*	< 57.3	204*	< 200			
n-Butylbenzene			µg/l	< 62.5	< 200	< 200	< 200			
n-Propylbenzene			µg/l	168	< 200	588	86*			
Inorganics										
Dissolved Lead	15	1.5	µg/l	**31.5**	**37.1**	**31.3**	< 5.0			

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

REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING



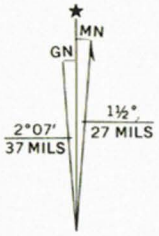
SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

LAC DU FLAMBEAU, WIS.

N4552.5—W8952.5/7.5

1971

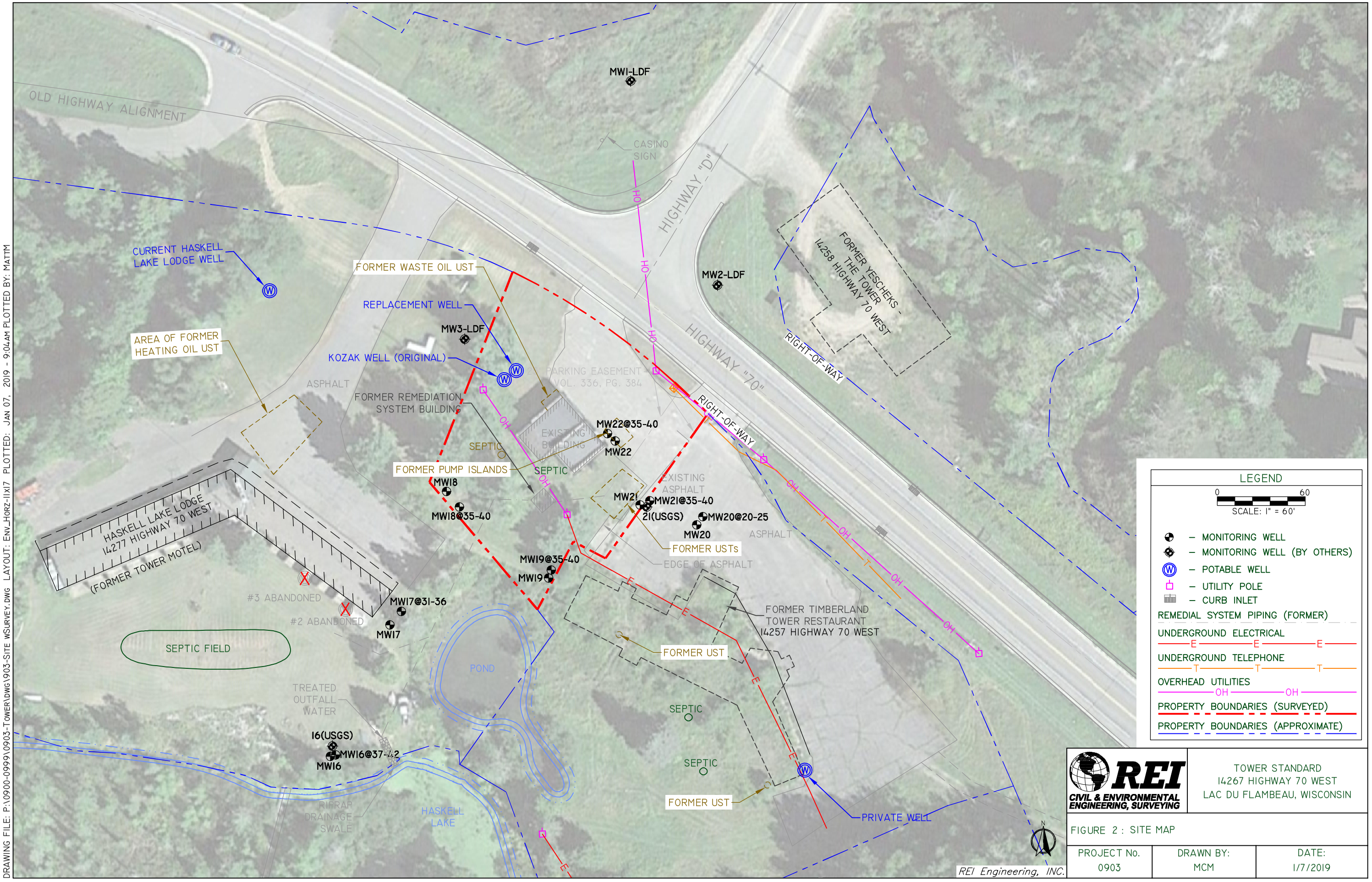
AMS 3075 IV NW—SERIES V861

QUADRANGLE LOCATION

REI Engineering, INC.

TOWER STANDARD 14267 HIGHWAY 70 WEST LAC DU FLAMBEAU, WISCONSIN	FIGURE 1 : SITE VICINITY MAP		
	PROJECT NO. 0903	DRAWN BY: MCM	DATE: 1/4/2019

DRAWING FILE: P:\0900-0999\0903-TOWER\DWG\1903-VICN.DWG LAYOUT: VICN PLOTTED: JAN 04, 2019 - 12:02PM PLOTTED BY: MATTM



LEGEND

SCALE: 1" = 60'

- MONITORING WELL
- MONITORING WELL (BY OTHERS)
- POTABLE WELL
- UTILITY POLE
- CURB INLET

REMEDIAL SYSTEM PIPING (FORMER)

UNDERGROUND ELECTRICAL

UNDERGROUND TELEPHONE

OVERHEAD UTILITIES

PROPERTY BOUNDARIES (SURVEYED)

PROPERTY BOUNDARIES (APPROXIMATE)

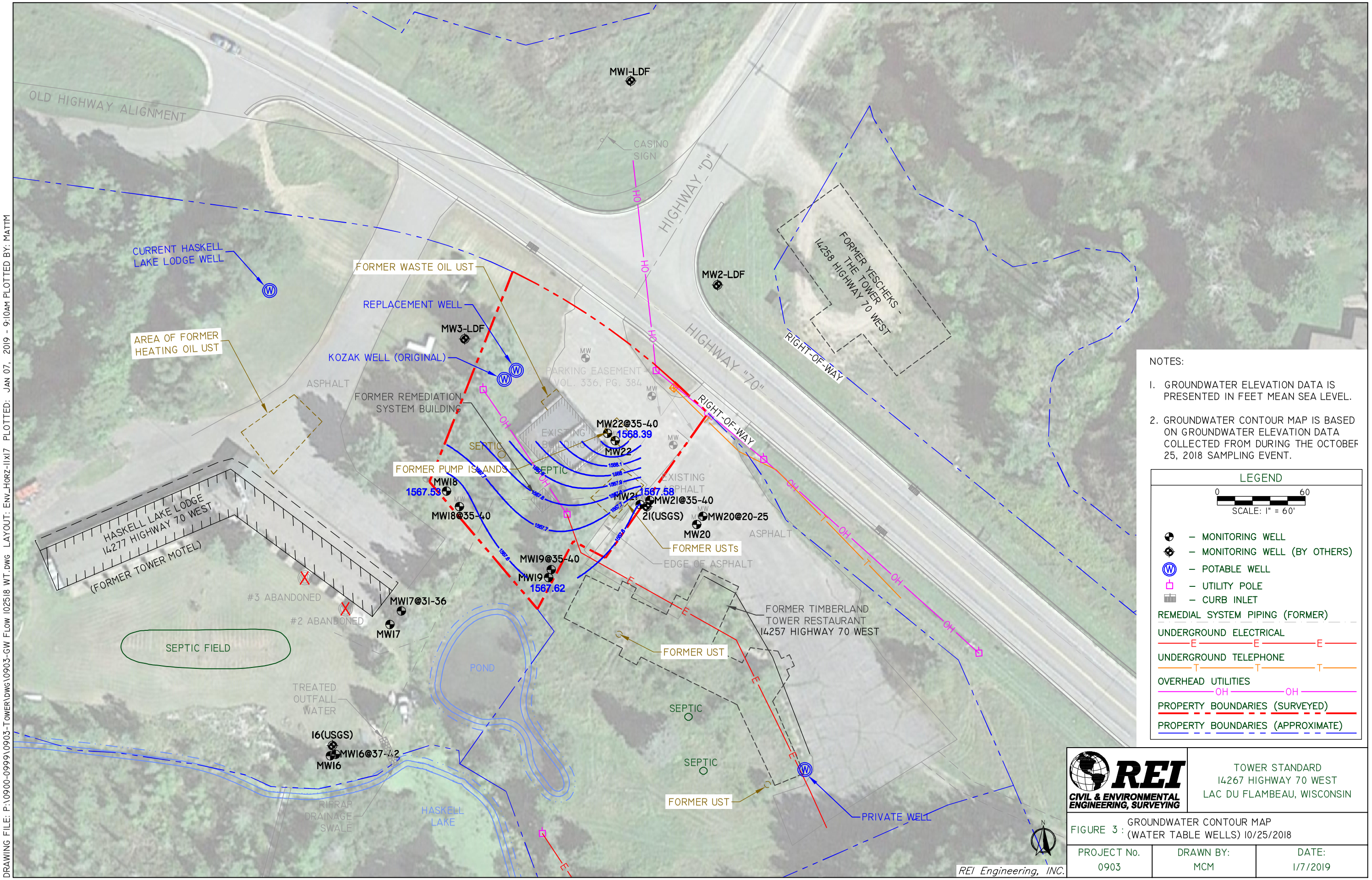
REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

TOWER STANDARD
14267 HIGHWAY 70 WEST
LAC DU FLAMBEAU, WISCONSIN

FIGURE 2 : SITE MAP

PROJECT No.	DRAWN BY:	DATE:
0903	MCM	1/7/2019

DRAWING FILE: P:\0900-0999\0903-TOWER\DWG\1903-SITE WSURVEY.DWG LAYOUT: ENV_HORZ-11X17 PLOTTED: JAN 07, 2019 - 9:04AM PLOTTED BY: MATTM



NOTES:

1. GROUNDWATER ELEVATION DATA IS PRESENTED IN FEET MEAN SEA LEVEL.
2. GROUNDWATER CONTOUR MAP IS BASED ON GROUNDWATER ELEVATION DATA COLLECTED FROM DURING THE OCTOBER 25, 2018 SAMPLING EVENT.

LEGEND

0 60
SCALE: 1" = 60'

- MONITORING WELL
- MONITORING WELL (BY OTHERS)
- POTABLE WELL
- UTILITY POLE
- CURB INLET

REMEDIAL SYSTEM PIPING (FORMER)
UNDERGROUND ELECTRICAL
UNDERGROUND TELEPHONE
OVERHEAD UTILITIES
PROPERTY BOUNDARIES (SURVEYED)
PROPERTY BOUNDARIES (APPROXIMATE)

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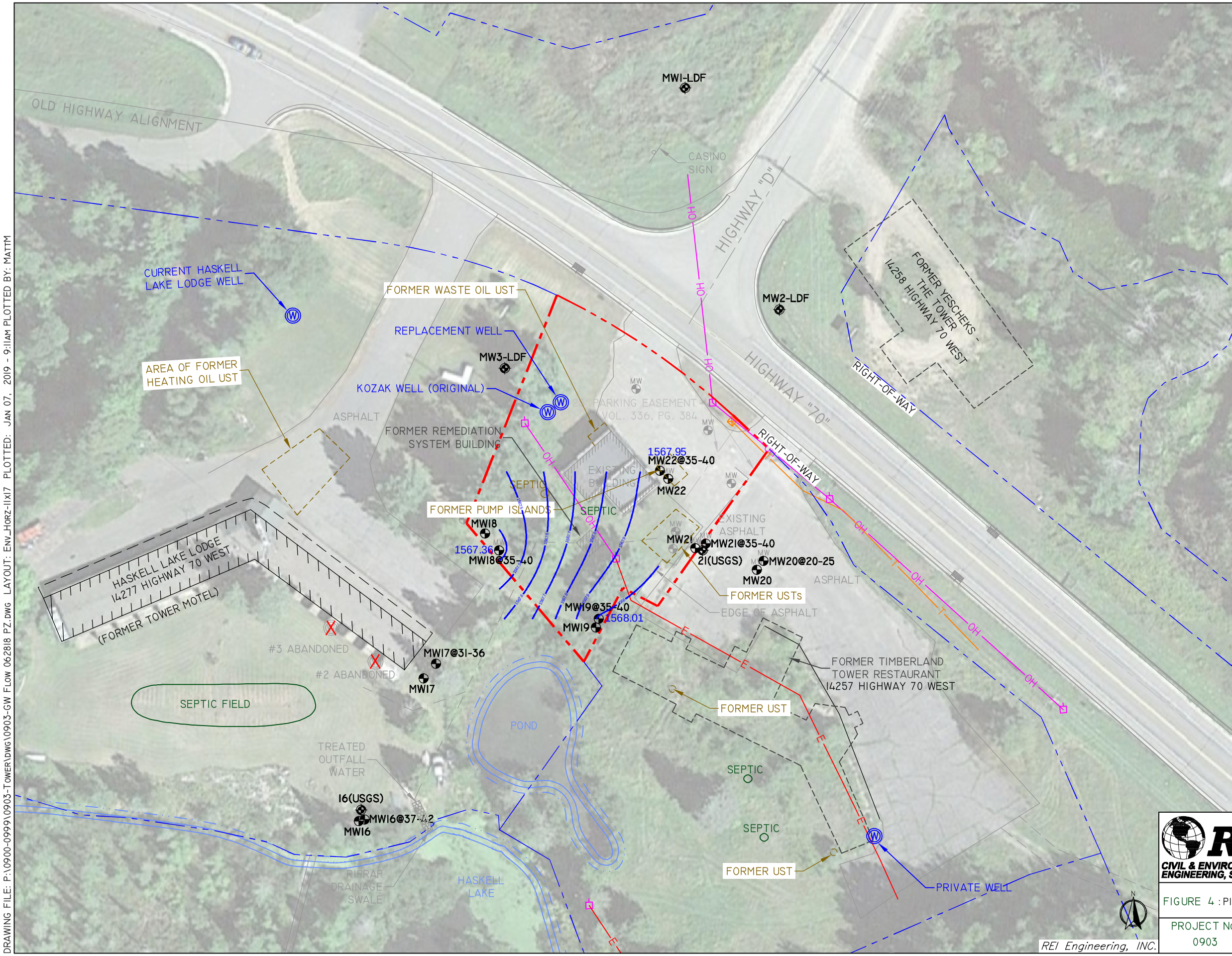
TOWER STANDARD
14267 HIGHWAY 70 WEST
LAC DU FLAMBEAU, WISCONSIN

FIGURE 3 : GROUNDWATER CONTOUR MAP (WATER TABLE WELLS) 10/25/2018

PROJECT No.	DRAWN BY:	DATE:
0903	MCM	1/7/2019

DRAWING FILE: P:\0900-0999\0903-TOWER\DWG\0903-GW FLOW 102518 WT.DWG LAYOUT: ENV_HORZ-11X17 PLOTTED: JAN 07, 2019 - 9:10AM PLOTTED BY: MATTM



NOTES:

1. GROUNDWATER ELEVATION DATA IS PRESENTED IN FEET MEAN SEA LEVEL.
2. GROUNDWATER CONTOUR MAP IS BASED ON GROUNDWATER ELEVATION DATA COLLECTED FROM DURING THE JUNE 28, 2018 SAMPLING EVENT.

LEGEND

0 60
SCALE: 1" = 60'

- MONITORING WELL
- MONITORING WELL (BY OTHERS)
- POTABLE WELL
- UTILITY POLE
- CURB INLET

REMEDIAL SYSTEM PIPING (FORMER)
UNDERGROUND ELECTRICAL
UNDERGROUND TELEPHONE
OVERHEAD UTILITIES
PROPERTY BOUNDARIES (SURVEYED)
PROPERTY BOUNDARIES (APPROXIMATE)

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TOWER STANDARD
14267 HIGHWAY 70 WEST
LAC DU FLAMBEAU, WISCONSIN

FIGURE 4 : PIEZOMETRIC WATER LEVEL ELEVATION (6/28/18)

PROJECT No.	DRAWN BY:	DATE:
0903	MCM	1/7/2019

DRAWING FILE: P:\0900-0999\0903-TOWER\DWG\0903-GW FLOW 062818 PZ.DWG LAYOUT: ENV_HORZ-11X17 PLOTTED: JAN 07, 2019 - 9:11AM PLOTTED BY: MATTM

APPENDIX A

COPY OF GROUNDWATER LABORATORY ANALYTICAL RESULTS

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

August 11, 2016

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

RE: Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on July 28, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40135883001	**MW1-LDF**	Water	07/26/16 08:35	07/28/16 08:50
40135883002	**MW2-LDF**	Water	07/26/16 09:15	07/28/16 08:50
40135883003	**MW3-LDF**	Water	07/26/16 09:50	07/28/16 08:50
40135883004	**MW16**	Water	07/26/16 13:55	07/28/16 08:50
40135883005	**MW16 @ 37-42'**	Water	07/26/16 14:10	07/28/16 08:50
40135883006	**MW17**	Water	07/26/16 12:55	07/28/16 08:50
40135883007	**MW17 @ 31-36'**	Water	07/26/16 12:40	07/28/16 08:50
40135883008	**MW18**	Water	07/26/16 10:20	07/28/16 08:50
40135883009	**MW18 @ 35-40'**	Water	07/26/16 11:00	07/28/16 08:50
40135883010	**MW19**	Water	07/26/16 13:19	07/28/16 08:50
40135883011	**MW19 @ 35-40'**	Water	07/26/16 13:40	07/28/16 08:50
40135883012	**MW20**	Water	07/26/16 15:06	07/28/16 08:50
40135883013	**MW20 @ 20-25'**	Water	07/26/16 15:21	07/28/16 08:50
40135883014	**MW21**	Water	07/26/16 14:50	07/28/16 08:50
40135883015	**MW21 @ 35-40'**	Water	07/26/16 14:40	07/28/16 08:50
40135883016	**MW22**	Water	07/26/16 12:15	07/28/16 08:50
40135883017	**MW22 @ 35-40'**	Water	07/26/16 11:51	07/28/16 08:50

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SAMPLE ANALYTE COUNT

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40135883001	**MW1-LDF**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883002	**MW2-LDF**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883003	**MW3-LDF**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883004	**MW16**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883005	**MW16 @ 37-42'**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883006	**MW17**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883007	**MW17 @ 31-36'**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883008	**MW18**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883009	**MW18 @ 35-40'**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883010	**MW19**	EPA 6010	DLB	3

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SAMPLE ANALYTE COUNT

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883011	**MW19 @ 35-40'**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883012	**MW20**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883013	**MW20 @ 20-25'**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883014	**MW21**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883015	**MW21 @ 35-40'**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883016	**MW22**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40135883017	**MW22 @ 35-40'**	EPA 6010	DLB	3
		EPA 8260	LAP	64
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW1-LDF **Lab ID: 40135883001** Collected: 07/26/16 08:35 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:00	7440-43-9	
Iron, Dissolved	**59.4J**	ug/L	100	12.9	1		07/29/16 16:00	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		07/29/16 16:00	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 11:58	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/29/16 11:58	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/29/16 11:58	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 11:58	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/29/16 11:58	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/29/16 11:58	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/29/16 11:58	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/29/16 11:58	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/29/16 11:58	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/29/16 11:58	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/29/16 11:58	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/29/16 11:58	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/29/16 11:58	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/29/16 11:58	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/29/16 11:58	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 11:58	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 11:58	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/29/16 11:58	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/29/16 11:58	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/29/16 11:58	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 11:58	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 11:58	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/29/16 11:58	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/29/16 11:58	75-09-2	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW1-LDF **Lab ID: 40135883001** Collected: 07/26/16 08:35 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/29/16 11:58	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/29/16 11:58	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 11:58	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/29/16 11:58	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 11:58	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 11:58	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/29/16 11:58	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/29/16 11:58	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 11:58	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/29/16 11:58	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/29/16 11:58	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 11:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		07/29/16 11:58	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		07/29/16 11:58	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/29/16 11:58	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**14.7**	mg/L	4.0	2.0	1		08/09/16 13:25	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.65**	mg/L	0.25	0.095	1		08/01/16 10:59		

Sample: MW2-LDF **Lab ID: 40135883002** Collected: 07/26/16 09:15 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:03	7440-43-9	
Iron, Dissolved	**<12.9**	ug/L	100	12.9	1		07/29/16 16:03	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		07/29/16 16:03	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 12:20	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/29/16 12:20	74-97-5	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW2-LDF **Lab ID: 40135883002** Collected: 07/26/16 09:15 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/29/16 12:20	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 12:20	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:20	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/29/16 12:20	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/29/16 12:20	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/29/16 12:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/29/16 12:20	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:20	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/29/16 12:20	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/29/16 12:20	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/29/16 12:20	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/29/16 12:20	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/29/16 12:20	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 12:20	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 12:20	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/29/16 12:20	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/29/16 12:20	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/29/16 12:20	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 12:20	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 12:20	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/29/16 12:20	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/29/16 12:20	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/29/16 12:20	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/29/16 12:20	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:20	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/29/16 12:20	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	108-88-3	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW2-LDF **Lab ID: 40135883002** Collected: 07/26/16 09:15 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 12:20	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 12:20	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/29/16 12:20	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/29/16 12:20	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:20	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:20	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/29/16 12:20	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		07/29/16 12:20	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		07/29/16 12:20	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/29/16 12:20	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**21.1**	mg/L	4.0	2.0	1		08/09/16 13:36	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.38**	mg/L	0.25	0.095	1		08/01/16 11:00		

Sample: MW3-LDF **Lab ID: 40135883003** Collected: 07/26/16 09:50 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:05	7440-43-9	
Iron, Dissolved	**<12.9**	ug/L	100	12.9	1		07/29/16 16:05	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		07/29/16 16:05	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 12:41	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/29/16 12:41	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/29/16 12:41	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 12:41	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:41	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	108-90-7	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW3-LDF **Lab ID: 40135883003** Collected: 07/26/16 09:50 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/29/16 12:41	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/29/16 12:41	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/29/16 12:41	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/29/16 12:41	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:41	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/29/16 12:41	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/29/16 12:41	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/29/16 12:41	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/29/16 12:41	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/29/16 12:41	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 12:41	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 12:41	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/29/16 12:41	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/29/16 12:41	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/29/16 12:41	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 12:41	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 12:41	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/29/16 12:41	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/29/16 12:41	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/29/16 12:41	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/29/16 12:41	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:41	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/29/16 12:41	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 12:41	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 12:41	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/29/16 12:41	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/29/16 12:41	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:41	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	95-63-6	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW3-LDF **Lab ID: 40135883003** Collected: 07/26/16 09:50 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/29/16 12:41	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/29/16 12:41	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 12:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		07/29/16 12:41	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		07/29/16 12:41	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/29/16 12:41	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2.3J**	mg/L	4.0	2.0	1		08/09/16 13:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.69**	mg/L	0.25	0.095	1		08/01/16 11:01		

Sample: MW16 **Lab ID: 40135883004** Collected: 07/26/16 13:55 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:07	7440-43-9	
Iron, Dissolved	**17500**	ug/L	100	12.9	1		07/29/16 16:07	7439-89-6	
Lead, Dissolved	**3.6J**	ug/L	12.0	3.0	1		07/29/16 16:07	7439-92-1	B
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.96J**	ug/L	1.0	0.50	1		07/29/16 13:03	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:03	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/29/16 13:03	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/29/16 13:03	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 13:03	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:03	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/29/16 13:03	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/29/16 13:03	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/29/16 13:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/29/16 13:03	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:03	106-93-4	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW16 **Lab ID: 40135883004** Collected: 07/26/16 13:55 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/29/16 13:03	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/29/16 13:03	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/29/16 13:03	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/29/16 13:03	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/29/16 13:03	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 13:03	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 13:03	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:03	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/29/16 13:03	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/29/16 13:03	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:03	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 13:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/29/16 13:03	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:03	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/29/16 13:03	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/29/16 13:03	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:03	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/29/16 13:03	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 13:03	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 13:03	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/29/16 13:03	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/29/16 13:03	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:03	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:03	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/29/16 13:03	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		07/29/16 13:03	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		07/29/16 13:03	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/29/16 13:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW16 **Lab ID: 40135883004** Collected: 07/26/16 13:55 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**<10.0**	mg/L	20.0	10.0	5		08/09/16 13:59	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:02		

Sample: MW16 @ 37-42' **Lab ID: 40135883005** Collected: 07/26/16 14:10 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:10	7440-43-9	
Iron, Dissolved	**10900**	ug/L	100	12.9	1		07/29/16 16:10	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		07/29/16 16:10	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**1050**	ug/L	10.0	5.0	10		07/29/16 17:26	71-43-2	
Bromobenzene	**<2.3**	ug/L	10.0	2.3	10		07/29/16 17:26	108-86-1	
Bromochloromethane	**<3.4**	ug/L	10.0	3.4	10		07/29/16 17:26	74-97-5	
Bromodichloromethane	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	75-27-4	
Bromoform	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	75-25-2	
Bromomethane	**<24.3**	ug/L	50.0	24.3	10		07/29/16 17:26	74-83-9	
n-Butylbenzene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	104-51-8	
sec-Butylbenzene	**<21.9**	ug/L	50.0	21.9	10		07/29/16 17:26	135-98-8	
tert-Butylbenzene	**<1.8**	ug/L	10.0	1.8	10		07/29/16 17:26	98-06-6	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	108-90-7	
Chloroethane	**<3.7**	ug/L	10.0	3.7	10		07/29/16 17:26	75-00-3	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		07/29/16 17:26	67-66-3	
Chloromethane	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	74-87-3	
2-Chlorotoluene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	95-49-8	
4-Chlorotoluene	**<2.1**	ug/L	10.0	2.1	10		07/29/16 17:26	106-43-4	
1,2-Dibromo-3-chloropropane	**<21.6**	ug/L	50.0	21.6	10		07/29/16 17:26	96-12-8	
Dibromochloromethane	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	124-48-1	
1,2-Dibromoethane (EDB)	**<1.8**	ug/L	10.0	1.8	10		07/29/16 17:26	106-93-4	
Dibromomethane	**<4.3**	ug/L	10.0	4.3	10		07/29/16 17:26	74-95-3	
1,2-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	95-50-1	
1,3-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	541-73-1	
1,4-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	106-46-7	
Dichlorodifluoromethane	**<2.2**	ug/L	10.0	2.2	10		07/29/16 17:26	75-71-8	
1,1-Dichloroethane	**<2.4**	ug/L	10.0	2.4	10		07/29/16 17:26	75-34-3	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		07/29/16 17:26	107-06-2	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		07/29/16 17:26	75-35-4	
cis-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		07/29/16 17:26	156-59-2	
trans-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		07/29/16 17:26	156-60-5	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW16 @ 37-42' **Lab ID: 40135883005** Collected: 07/26/16 14:10 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloropropane	**<2.3**	ug/L	10.0	2.3	10		07/29/16 17:26	78-87-5	
1,3-Dichloropropane	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	142-28-9	
2,2-Dichloropropane	**<4.8**	ug/L	10.0	4.8	10		07/29/16 17:26	594-20-7	
1,1-Dichloropropene	**<4.4**	ug/L	10.0	4.4	10		07/29/16 17:26	563-58-6	
cis-1,3-Dichloropropene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	10061-01-5	
trans-1,3-Dichloropropene	**<2.3**	ug/L	10.0	2.3	10		07/29/16 17:26	10061-02-6	
Diisopropyl ether	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	108-20-3	
Ethylbenzene	**37.7**	ug/L	10.0	5.0	10		07/29/16 17:26	100-41-4	
Hexachloro-1,3-butadiene	**<21.1**	ug/L	50.0	21.1	10		07/29/16 17:26	87-68-3	
Isopropylbenzene (Cumene)	**14.3**	ug/L	10.0	1.4	10		07/29/16 17:26	98-82-8	
p-Isopropyltoluene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	99-87-6	
Methylene Chloride	**<2.3**	ug/L	10.0	2.3	10		07/29/16 17:26	75-09-2	
Methyl-tert-butyl ether	**<1.7**	ug/L	10.0	1.7	10		07/29/16 17:26	1634-04-4	
Naphthalene	**72.7**	ug/L	50.0	25.0	10		07/29/16 17:26	91-20-3	
n-Propylbenzene	**41.6**	ug/L	10.0	5.0	10		07/29/16 17:26	103-65-1	
Styrene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.8**	ug/L	10.0	1.8	10		07/29/16 17:26	630-20-6	
1,1,2,2-Tetrachloroethane	**<2.5**	ug/L	10.0	2.5	10		07/29/16 17:26	79-34-5	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	127-18-4	
Toluene	**17.7**	ug/L	10.0	5.0	10		07/29/16 17:26	108-88-3	
1,2,3-Trichlorobenzene	**<21.3**	ug/L	50.0	21.3	10		07/29/16 17:26	87-61-6	
1,2,4-Trichlorobenzene	**<22.1**	ug/L	50.0	22.1	10		07/29/16 17:26	120-82-1	
1,1,1-Trichloroethane	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	71-55-6	
1,1,2-Trichloroethane	**<2.0**	ug/L	10.0	2.0	10		07/29/16 17:26	79-00-5	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		07/29/16 17:26	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/L	10.0	1.8	10		07/29/16 17:26	75-69-4	
1,2,3-Trichloropropane	**<5.0**	ug/L	10.0	5.0	10		07/29/16 17:26	96-18-4	
1,2,4-Trimethylbenzene	**328**	ug/L	10.0	5.0	10		07/29/16 17:26	95-63-6	
1,3,5-Trimethylbenzene	**54.3**	ug/L	10.0	5.0	10		07/29/16 17:26	108-67-8	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		07/29/16 17:26	75-01-4	
m&p-Xylene	**1470**	ug/L	20.0	10.0	10		07/29/16 17:26	179601-23-1	
o-Xylene	**13.9**	ug/L	10.0	5.0	10		07/29/16 17:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		10		07/29/16 17:26	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		10		07/29/16 17:26	1868-53-7	
Toluene-d8 (S)	101	%	70-130		10		07/29/16 17:26	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**<10.0**	mg/L	20.0	10.0	5		08/09/16 14:57	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW17 **Lab ID: 40135883006** Collected: 07/26/16 12:55 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:12	7440-43-9	
Iron, Dissolved	**1820**	ug/L	100	12.9	1		07/29/16 16:12	7439-89-6	
Lead, Dissolved	**3.9J**	ug/L	12.0	3.0	1		07/29/16 16:12	7439-92-1	B
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:25	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/29/16 13:25	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/29/16 13:25	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 13:25	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:25	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/29/16 13:25	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/29/16 13:25	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/29/16 13:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/29/16 13:25	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:25	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/29/16 13:25	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/29/16 13:25	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/29/16 13:25	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/29/16 13:25	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/29/16 13:25	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 13:25	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 13:25	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:25	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/29/16 13:25	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/29/16 13:25	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:25	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 13:25	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/29/16 13:25	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:25	75-09-2	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW17 **Lab ID: 40135883006** Collected: 07/26/16 12:55 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/29/16 13:25	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/29/16 13:25	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/29/16 13:25	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 13:25	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 13:25	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/29/16 13:25	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/29/16 13:25	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:25	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:25	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/29/16 13:25	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		07/29/16 13:25	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		07/29/16 13:25	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		07/29/16 13:25	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**18.6**	mg/L	4.0	2.0	1		08/09/16 15:09	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.25	0.095	1		08/01/16 11:06		

Sample: MW17 @ 31-36' **Lab ID: 40135883007** Collected: 07/26/16 12:40 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:19	7440-43-9	
Iron, Dissolved	**2430**	ug/L	100	12.9	1		07/29/16 16:19	7439-89-6	
Lead, Dissolved	**3.4J**	ug/L	12.0	3.0	1		07/29/16 16:19	7439-92-1	B
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:47	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/29/16 13:47	74-97-5	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW17 @ 31-36' **Lab ID: 40135883007** Collected: 07/26/16 12:40 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/29/16 13:47	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 13:47	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:47	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/29/16 13:47	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/29/16 13:47	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/29/16 13:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/29/16 13:47	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:47	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/29/16 13:47	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/29/16 13:47	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/29/16 13:47	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/29/16 13:47	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/29/16 13:47	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 13:47	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 13:47	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:47	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/29/16 13:47	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/29/16 13:47	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:47	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 13:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/29/16 13:47	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/29/16 13:47	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/29/16 13:47	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/29/16 13:47	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/29/16 13:47	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	108-88-3	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW17 @ 31-36' **Lab ID: 40135883007** Collected: 07/26/16 12:40 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 13:47	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 13:47	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/29/16 13:47	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/29/16 13:47	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:47	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/29/16 13:47	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/29/16 13:47	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 13:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		07/29/16 13:47	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		07/29/16 13:47	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/29/16 13:47	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2.4J**	mg/L	4.0	2.0	1		08/09/16 15:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:07		

Sample: MW18 **Lab ID: 40135883008** Collected: 07/26/16 10:20 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:21	7440-43-9	
Iron, Dissolved	**32.8J**	ug/L	100	12.9	1		07/29/16 16:21	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		07/29/16 16:21	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:09	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/29/16 14:09	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/29/16 14:09	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 14:09	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:09	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	108-90-7	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW18 **Lab ID: 40135883008** Collected: 07/26/16 10:20 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/29/16 14:09	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/29/16 14:09	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/29/16 14:09	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/29/16 14:09	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:09	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/29/16 14:09	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/29/16 14:09	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/29/16 14:09	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/29/16 14:09	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/29/16 14:09	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 14:09	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 14:09	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:09	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/29/16 14:09	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/29/16 14:09	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:09	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 14:09	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/29/16 14:09	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:09	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/29/16 14:09	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/29/16 14:09	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:09	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/29/16 14:09	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 14:09	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 14:09	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/29/16 14:09	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/29/16 14:09	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:09	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	95-63-6	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW18 **Lab ID: 40135883008** Collected: 07/26/16 10:20 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:09	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/29/16 14:09	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		07/29/16 14:09	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		07/29/16 14:09	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/29/16 14:09	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**15.9**	mg/L	4.0	2.0	1		08/09/16 15:32	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**1.9**	mg/L	0.25	0.095	1		08/01/16 11:08		M0

Sample: MW18 @ 35-40' **Lab ID: 40135883009** Collected: 07/26/16 11:00 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:24	7440-43-9	
Iron, Dissolved	**102**	ug/L	100	12.9	1		07/29/16 16:24	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		07/29/16 16:24	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:31	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/29/16 14:31	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/29/16 14:31	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 14:31	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:31	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/29/16 14:31	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/29/16 14:31	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/29/16 14:31	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/29/16 14:31	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:31	106-93-4	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW18 @ 35-40' **Lab ID: 40135883009** Collected: 07/26/16 11:00 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/29/16 14:31	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/29/16 14:31	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/29/16 14:31	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/29/16 14:31	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/29/16 14:31	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 14:31	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 14:31	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:31	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/29/16 14:31	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/29/16 14:31	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:31	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 14:31	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/29/16 14:31	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:31	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/29/16 14:31	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/29/16 14:31	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:31	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/29/16 14:31	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 14:31	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 14:31	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/29/16 14:31	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/29/16 14:31	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:31	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:31	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/29/16 14:31	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		07/29/16 14:31	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		07/29/16 14:31	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		07/29/16 14:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW18 @ 35-40' **Lab ID: 40135883009** Collected: 07/26/16 11:00 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**7.7**	mg/L	4.0	2.0	1		08/09/16 15:43	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:10		

Sample: MW19 **Lab ID: 40135883010** Collected: 07/26/16 13:19 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:26	7440-43-9	
Iron, Dissolved	**539**	ug/L	100	12.9	1		07/29/16 16:26	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		07/29/16 16:26	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:53	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/29/16 14:53	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/29/16 14:53	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 14:53	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:53	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/29/16 14:53	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/29/16 14:53	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/29/16 14:53	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/29/16 14:53	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:53	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/29/16 14:53	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/29/16 14:53	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/29/16 14:53	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/29/16 14:53	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/29/16 14:53	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 14:53	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/29/16 14:53	156-60-5	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW19 **Lab ID: 40135883010** Collected: 07/26/16 13:19 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:53	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/29/16 14:53	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/29/16 14:53	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:53	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 14:53	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/29/16 14:53	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/29/16 14:53	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/29/16 14:53	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/29/16 14:53	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:53	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/29/16 14:53	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/29/16 14:53	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/29/16 14:53	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/29/16 14:53	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/29/16 14:53	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:53	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/29/16 14:53	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/29/16 14:53	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/29/16 14:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		07/29/16 14:53	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		07/29/16 14:53	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/29/16 14:53	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**6.6**	mg/L	4.0	2.0	1		08/09/16 15:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:11		

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW19 @ 35-40' **Lab ID: 40135883011** Collected: 07/26/16 13:40 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:29	7440-43-9	
Iron, Dissolved	**9530**	ug/L	100	12.9	1		07/29/16 16:29	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		07/29/16 16:29	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**6.2**	ug/L	5.0	2.5	5		08/01/16 09:22	71-43-2	
Bromobenzene	**<1.2**	ug/L	5.0	1.2	5		08/01/16 09:22	108-86-1	
Bromochloromethane	**<1.7**	ug/L	5.0	1.7	5		08/01/16 09:22	74-97-5	
Bromodichloromethane	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	75-27-4	
Bromoform	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	75-25-2	
Bromomethane	**<12.2**	ug/L	25.0	12.2	5		08/01/16 09:22	74-83-9	
n-Butylbenzene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	104-51-8	
sec-Butylbenzene	**<10.9**	ug/L	25.0	10.9	5		08/01/16 09:22	135-98-8	
tert-Butylbenzene	**<0.90**	ug/L	5.0	0.90	5		08/01/16 09:22	98-06-6	
Carbon tetrachloride	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	56-23-5	
Chlorobenzene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	108-90-7	
Chloroethane	**<1.9**	ug/L	5.0	1.9	5		08/01/16 09:22	75-00-3	
Chloroform	**<12.5**	ug/L	25.0	12.5	5		08/01/16 09:22	67-66-3	
Chloromethane	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	74-87-3	
2-Chlorotoluene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	95-49-8	
4-Chlorotoluene	**<1.1**	ug/L	5.0	1.1	5		08/01/16 09:22	106-43-4	
1,2-Dibromo-3-chloropropane	**<10.8**	ug/L	25.0	10.8	5		08/01/16 09:22	96-12-8	
Dibromochloromethane	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	124-48-1	
1,2-Dibromoethane (EDB)	**<0.89**	ug/L	5.0	0.89	5		08/01/16 09:22	106-93-4	
Dibromomethane	**<2.1**	ug/L	5.0	2.1	5		08/01/16 09:22	74-95-3	
1,2-Dichlorobenzene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	95-50-1	
1,3-Dichlorobenzene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	541-73-1	
1,4-Dichlorobenzene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	106-46-7	
Dichlorodifluoromethane	**<1.1**	ug/L	5.0	1.1	5		08/01/16 09:22	75-71-8	
1,1-Dichloroethane	**<1.2**	ug/L	5.0	1.2	5		08/01/16 09:22	75-34-3	
1,2-Dichloroethane	**<0.84**	ug/L	5.0	0.84	5		08/01/16 09:22	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/L	5.0	2.1	5		08/01/16 09:22	75-35-4	
cis-1,2-Dichloroethene	**<1.3**	ug/L	5.0	1.3	5		08/01/16 09:22	156-59-2	
trans-1,2-Dichloroethene	**<1.3**	ug/L	5.0	1.3	5		08/01/16 09:22	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/L	5.0	1.2	5		08/01/16 09:22	78-87-5	
1,3-Dichloropropane	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	142-28-9	
2,2-Dichloropropane	**<2.4**	ug/L	5.0	2.4	5		08/01/16 09:22	594-20-7	
1,1-Dichloropropene	**<2.2**	ug/L	5.0	2.2	5		08/01/16 09:22	563-58-6	
cis-1,3-Dichloropropene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	10061-01-5	
trans-1,3-Dichloropropene	**<1.1**	ug/L	5.0	1.1	5		08/01/16 09:22	10061-02-6	
Diisopropyl ether	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	108-20-3	
Ethylbenzene	**194**	ug/L	5.0	2.5	5		08/01/16 09:22	100-41-4	
Hexachloro-1,3-butadiene	**<10.5**	ug/L	25.0	10.5	5		08/01/16 09:22	87-68-3	
Isopropylbenzene (Cumene)	**8.5**	ug/L	5.0	0.72	5		08/01/16 09:22	98-82-8	
p-Isopropyltoluene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	99-87-6	
Methylene Chloride	**<1.2**	ug/L	5.0	1.2	5		08/01/16 09:22	75-09-2	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW19 @ 35-40' **Lab ID: 40135883011** Collected: 07/26/16 13:40 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**<0.87**	ug/L	5.0	0.87	5		08/01/16 09:22	1634-04-4	
Naphthalene	**19.1J**	ug/L	25.0	12.5	5		08/01/16 09:22	91-20-3	
n-Propylbenzene	**20.2**	ug/L	5.0	2.5	5		08/01/16 09:22	103-65-1	
Styrene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.90**	ug/L	5.0	0.90	5		08/01/16 09:22	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.2**	ug/L	5.0	1.2	5		08/01/16 09:22	79-34-5	
Tetrachloroethene	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	127-18-4	
Toluene	**20.7**	ug/L	5.0	2.5	5		08/01/16 09:22	108-88-3	
1,2,3-Trichlorobenzene	**<10.7**	ug/L	25.0	10.7	5		08/01/16 09:22	87-61-6	
1,2,4-Trichlorobenzene	**<11.0**	ug/L	25.0	11.0	5		08/01/16 09:22	120-82-1	
1,1,1-Trichloroethane	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	71-55-6	
1,1,2-Trichloroethane	**<0.99**	ug/L	5.0	0.99	5		08/01/16 09:22	79-00-5	
Trichloroethene	**<1.7**	ug/L	5.0	1.7	5		08/01/16 09:22	79-01-6	
Trichlorofluoromethane	**<0.92**	ug/L	5.0	0.92	5		08/01/16 09:22	75-69-4	
1,2,3-Trichloropropane	**<2.5**	ug/L	5.0	2.5	5		08/01/16 09:22	96-18-4	
1,2,4-Trimethylbenzene	**116**	ug/L	5.0	2.5	5		08/01/16 09:22	95-63-6	
1,3,5-Trimethylbenzene	**33.4**	ug/L	5.0	2.5	5		08/01/16 09:22	108-67-8	
Vinyl chloride	**<0.88**	ug/L	5.0	0.88	5		08/01/16 09:22	75-01-4	
m&p-Xylene	**188**	ug/L	10.0	5.0	5		08/01/16 09:22	179601-23-1	
o-Xylene	**24.2**	ug/L	5.0	2.5	5		08/01/16 09:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		5		08/01/16 09:22	460-00-4	D3
Dibromofluoromethane (S)	101	%	70-130		5		08/01/16 09:22	1868-53-7	
Toluene-d8 (S)	101	%	70-130		5		08/01/16 09:22	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**<10.0**	mg/L	20.0	10.0	5		08/09/16 16:06	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:12		

Sample: MW20 **Lab ID: 40135883012** Collected: 07/26/16 15:06 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:32	7440-43-9	
Iron, Dissolved	**12800**	ug/L	100	12.9	1		07/29/16 16:32	7439-89-6	
Lead, Dissolved	**8.7J**	ug/L	12.0	3.0	1		07/29/16 16:32	7439-92-1	B
8260 MSV	Analytical Method: EPA 8260								
Benzene	**4490**	ug/L	100	50.0	100		07/29/16 18:31	71-43-2	
Bromobenzene	**<23.0**	ug/L	100	23.0	100		07/29/16 18:31	108-86-1	
Bromochloromethane	**<34.0**	ug/L	100	34.0	100		07/29/16 18:31	74-97-5	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW20 **Lab ID: 40135883012** Collected: 07/26/16 15:06 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	75-27-4	
Bromoform	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	75-25-2	
Bromomethane	**<243**	ug/L	500	243	100		07/29/16 18:31	74-83-9	
n-Butylbenzene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	104-51-8	
sec-Butylbenzene	**<219**	ug/L	500	219	100		07/29/16 18:31	135-98-8	
tert-Butylbenzene	**<18.0**	ug/L	100	18.0	100		07/29/16 18:31	98-06-6	
Carbon tetrachloride	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	56-23-5	
Chlorobenzene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	108-90-7	
Chloroethane	**<37.5**	ug/L	100	37.5	100		07/29/16 18:31	75-00-3	
Chloroform	**<250**	ug/L	500	250	100		07/29/16 18:31	67-66-3	
Chloromethane	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	74-87-3	
2-Chlorotoluene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	95-49-8	
4-Chlorotoluene	**<21.4**	ug/L	100	21.4	100		07/29/16 18:31	106-43-4	
1,2-Dibromo-3-chloropropane	**<216**	ug/L	500	216	100		07/29/16 18:31	96-12-8	
Dibromochloromethane	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	124-48-1	
1,2-Dibromoethane (EDB)	**<17.8**	ug/L	100	17.8	100		07/29/16 18:31	106-93-4	
Dibromomethane	**<42.7**	ug/L	100	42.7	100		07/29/16 18:31	74-95-3	
1,2-Dichlorobenzene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	95-50-1	
1,3-Dichlorobenzene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	541-73-1	
1,4-Dichlorobenzene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	106-46-7	
Dichlorodifluoromethane	**<22.4**	ug/L	100	22.4	100		07/29/16 18:31	75-71-8	
1,1-Dichloroethane	**<24.2**	ug/L	100	24.2	100		07/29/16 18:31	75-34-3	
1,2-Dichloroethane	**<16.8**	ug/L	100	16.8	100		07/29/16 18:31	107-06-2	
1,1-Dichloroethene	**<41.0**	ug/L	100	41.0	100		07/29/16 18:31	75-35-4	
cis-1,2-Dichloroethene	**<25.6**	ug/L	100	25.6	100		07/29/16 18:31	156-59-2	
trans-1,2-Dichloroethene	**<25.7**	ug/L	100	25.7	100		07/29/16 18:31	156-60-5	
1,2-Dichloropropane	**<23.3**	ug/L	100	23.3	100		07/29/16 18:31	78-87-5	
1,3-Dichloropropane	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	142-28-9	
2,2-Dichloropropane	**<48.4**	ug/L	100	48.4	100		07/29/16 18:31	594-20-7	
1,1-Dichloropropene	**<44.1**	ug/L	100	44.1	100		07/29/16 18:31	563-58-6	
cis-1,3-Dichloropropene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	10061-01-5	
trans-1,3-Dichloropropene	**<23.0**	ug/L	100	23.0	100		07/29/16 18:31	10061-02-6	
Diisopropyl ether	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	108-20-3	
Ethylbenzene	**3670**	ug/L	100	50.0	100		07/29/16 18:31	100-41-4	
Hexachloro-1,3-butadiene	**<211**	ug/L	500	211	100		07/29/16 18:31	87-68-3	
Isopropylbenzene (Cumene)	**70.6J**	ug/L	100	14.3	100		07/29/16 18:31	98-82-8	
p-Isopropyltoluene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	99-87-6	
Methylene Chloride	**<23.3**	ug/L	100	23.3	100		07/29/16 18:31	75-09-2	
Methyl-tert-butyl ether	**<17.4**	ug/L	100	17.4	100		07/29/16 18:31	1634-04-4	
Naphthalene	**615**	ug/L	500	250	100		07/29/16 18:31	91-20-3	
n-Propylbenzene	**222**	ug/L	100	50.0	100		07/29/16 18:31	103-65-1	
Styrene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<18.1**	ug/L	100	18.1	100		07/29/16 18:31	630-20-6	
1,1,2,2-Tetrachloroethane	**<24.9**	ug/L	100	24.9	100		07/29/16 18:31	79-34-5	
Tetrachloroethene	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	127-18-4	
Toluene	**22800**	ug/L	100	50.0	100		07/29/16 18:31	108-88-3	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW20 **Lab ID: 40135883012** Collected: 07/26/16 15:06 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	**<213**	ug/L	500	213	100		07/29/16 18:31	87-61-6	
1,2,4-Trichlorobenzene	**<221**	ug/L	500	221	100		07/29/16 18:31	120-82-1	
1,1,1-Trichloroethane	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	71-55-6	
1,1,2-Trichloroethane	**<19.7**	ug/L	100	19.7	100		07/29/16 18:31	79-00-5	
Trichloroethene	**<33.1**	ug/L	100	33.1	100		07/29/16 18:31	79-01-6	
Trichlorofluoromethane	**<18.5**	ug/L	100	18.5	100		07/29/16 18:31	75-69-4	
1,2,3-Trichloropropane	**<50.0**	ug/L	100	50.0	100		07/29/16 18:31	96-18-4	
1,2,4-Trimethylbenzene	**2160**	ug/L	100	50.0	100		07/29/16 18:31	95-63-6	
1,3,5-Trimethylbenzene	**523**	ug/L	100	50.0	100		07/29/16 18:31	108-67-8	
Vinyl chloride	**<17.6**	ug/L	100	17.6	100		07/29/16 18:31	75-01-4	
m&p-Xylene	**13500**	ug/L	200	100	100		07/29/16 18:31	179601-23-1	
o-Xylene	**6530**	ug/L	100	50.0	100		07/29/16 18:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		100		07/29/16 18:31	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		100		07/29/16 18:31	1868-53-7	
Toluene-d8 (S)	100	%	70-130		100		07/29/16 18:31	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**<10.0**	mg/L	20.0	10.0	5		08/09/16 16:18	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:13		

Sample: MW20 @ 20-25' **Lab ID: 40135883013** Collected: 07/26/16 15:21 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:34	7440-43-9	
Iron, Dissolved	**5230**	ug/L	100	12.9	1		07/29/16 16:34	7439-89-6	
Lead, Dissolved	**31.3**	ug/L	12.0	3.0	1		07/29/16 16:34	7439-92-1	B
8260 MSV	Analytical Method: EPA 8260								
Benzene	**44900**	ug/L	400	200	400		07/29/16 18:53	71-43-2	
Bromobenzene	**<92.0**	ug/L	400	92.0	400		07/29/16 18:53	108-86-1	
Bromochloromethane	**<136**	ug/L	400	136	400		07/29/16 18:53	74-97-5	
Bromodichloromethane	**<200**	ug/L	400	200	400		07/29/16 18:53	75-27-4	
Bromoform	**<200**	ug/L	400	200	400		07/29/16 18:53	75-25-2	
Bromomethane	**<974**	ug/L	2000	974	400		07/29/16 18:53	74-83-9	
n-Butylbenzene	**<200**	ug/L	400	200	400		07/29/16 18:53	104-51-8	
sec-Butylbenzene	**<874**	ug/L	2000	874	400		07/29/16 18:53	135-98-8	
tert-Butylbenzene	**<72.1**	ug/L	400	72.1	400		07/29/16 18:53	98-06-6	
Carbon tetrachloride	**<200**	ug/L	400	200	400		07/29/16 18:53	56-23-5	
Chlorobenzene	**<200**	ug/L	400	200	400		07/29/16 18:53	108-90-7	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW20 @ 20-25' **Lab ID: 40135883013** Collected: 07/26/16 15:21 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chloroethane	**<150**	ug/L	400	150	400		07/29/16 18:53	75-00-3	
Chloroform	**<1000**	ug/L	2000	1000	400		07/29/16 18:53	67-66-3	
Chloromethane	**<200**	ug/L	400	200	400		07/29/16 18:53	74-87-3	
2-Chlorotoluene	**<200**	ug/L	400	200	400		07/29/16 18:53	95-49-8	
4-Chlorotoluene	**<85.5**	ug/L	400	85.5	400		07/29/16 18:53	106-43-4	
1,2-Dibromo-3-chloropropane	**<866**	ug/L	2000	866	400		07/29/16 18:53	96-12-8	
Dibromochloromethane	**<200**	ug/L	400	200	400		07/29/16 18:53	124-48-1	
1,2-Dibromoethane (EDB)	**192J**	ug/L	400	71.1	400		07/29/16 18:53	106-93-4	
Dibromomethane	**<171**	ug/L	400	171	400		07/29/16 18:53	74-95-3	
1,2-Dichlorobenzene	**<200**	ug/L	400	200	400		07/29/16 18:53	95-50-1	
1,3-Dichlorobenzene	**<200**	ug/L	400	200	400		07/29/16 18:53	541-73-1	
1,4-Dichlorobenzene	**<200**	ug/L	400	200	400		07/29/16 18:53	106-46-7	
Dichlorodifluoromethane	**<89.7**	ug/L	400	89.7	400		07/29/16 18:53	75-71-8	
1,1-Dichloroethane	**<96.6**	ug/L	400	96.6	400		07/29/16 18:53	75-34-3	
1,2-Dichloroethane	**<67.2**	ug/L	400	67.2	400		07/29/16 18:53	107-06-2	
1,1-Dichloroethene	**<164**	ug/L	400	164	400		07/29/16 18:53	75-35-4	
cis-1,2-Dichloroethene	**<102**	ug/L	400	102	400		07/29/16 18:53	156-59-2	
trans-1,2-Dichloroethene	**<103**	ug/L	400	103	400		07/29/16 18:53	156-60-5	
1,2-Dichloropropane	**<93.2**	ug/L	400	93.2	400		07/29/16 18:53	78-87-5	
1,3-Dichloropropane	**<200**	ug/L	400	200	400		07/29/16 18:53	142-28-9	
2,2-Dichloropropane	**<194**	ug/L	400	194	400		07/29/16 18:53	594-20-7	
1,1-Dichloropropene	**<176**	ug/L	400	176	400		07/29/16 18:53	563-58-6	
cis-1,3-Dichloropropene	**<200**	ug/L	400	200	400		07/29/16 18:53	10061-01-5	
trans-1,3-Dichloropropene	**<91.8**	ug/L	400	91.8	400		07/29/16 18:53	10061-02-6	
Diisopropyl ether	**<200**	ug/L	400	200	400		07/29/16 18:53	108-20-3	
Ethylbenzene	**10400**	ug/L	400	200	400		07/29/16 18:53	100-41-4	
Hexachloro-1,3-butadiene	**<842**	ug/L	2000	842	400		07/29/16 18:53	87-68-3	
Isopropylbenzene (Cumene)	**204J**	ug/L	400	57.3	400		07/29/16 18:53	98-82-8	
p-Isopropyltoluene	**<200**	ug/L	400	200	400		07/29/16 18:53	99-87-6	
Methylene Chloride	**<93.0**	ug/L	400	93.0	400		07/29/16 18:53	75-09-2	
Methyl-tert-butyl ether	**<69.7**	ug/L	400	69.7	400		07/29/16 18:53	1634-04-4	
Naphthalene	**1380J**	ug/L	2000	1000	400		07/29/16 18:53	91-20-3	
n-Propylbenzene	**588**	ug/L	400	200	400		07/29/16 18:53	103-65-1	
Styrene	**<200**	ug/L	400	200	400		07/29/16 18:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<72.2**	ug/L	400	72.2	400		07/29/16 18:53	630-20-6	
1,1,2,2-Tetrachloroethane	**<99.7**	ug/L	400	99.7	400		07/29/16 18:53	79-34-5	
Tetrachloroethene	**<200**	ug/L	400	200	400		07/29/16 18:53	127-18-4	
Toluene	**37300**	ug/L	1000	500	1000		08/01/16 10:05	108-88-3	
1,2,3-Trichlorobenzene	**<853**	ug/L	2000	853	400		07/29/16 18:53	87-61-6	
1,2,4-Trichlorobenzene	**<884**	ug/L	2000	884	400		07/29/16 18:53	120-82-1	
1,1,1-Trichloroethane	**<200**	ug/L	400	200	400		07/29/16 18:53	71-55-6	
1,1,2-Trichloroethane	**<79.0**	ug/L	400	79.0	400		07/29/16 18:53	79-00-5	
Trichloroethene	**<132**	ug/L	400	132	400		07/29/16 18:53	79-01-6	
Trichlorofluoromethane	**<74.0**	ug/L	400	74.0	400		07/29/16 18:53	75-69-4	
1,2,3-Trichloropropane	**<200**	ug/L	400	200	400		07/29/16 18:53	96-18-4	
1,2,4-Trimethylbenzene	**6120**	ug/L	400	200	400		07/29/16 18:53	95-63-6	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW20 @ 20-25' **Lab ID: 40135883013** Collected: 07/26/16 15:21 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,3,5-Trimethylbenzene	**1500**	ug/L	400	200	400		07/29/16 18:53	108-67-8	
Vinyl chloride	**<70.2**	ug/L	400	70.2	400		07/29/16 18:53	75-01-4	
m&p-Xylene	**38600**	ug/L	800	400	400		07/29/16 18:53	179601-23-1	
o-Xylene	**18200**	ug/L	400	200	400		07/29/16 18:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		400		07/29/16 18:53	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		400		07/29/16 18:53	1868-53-7	
Toluene-d8 (S)	98	%	70-130		400		07/29/16 18:53	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**<10.0**	mg/L	20.0	10.0	5		08/09/16 16:29	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:14		

Sample: MW21 **Lab ID: 40135883014** Collected: 07/26/16 14:50 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		07/29/16 16:37	7440-43-9	
Iron, Dissolved	**19300**	ug/L	100	12.9	1		07/29/16 16:37	7439-89-6	
Lead, Dissolved	**7.7J**	ug/L	12.0	3.0	1		07/29/16 16:37	7439-92-1	B
8260 MSV	Analytical Method: EPA 8260								
Benzene	**539**	ug/L	50.0	25.0	50		07/29/16 18:09	71-43-2	
Bromobenzene	**<11.5**	ug/L	50.0	11.5	50		07/29/16 18:09	108-86-1	
Bromochloromethane	**<17.0**	ug/L	50.0	17.0	50		07/29/16 18:09	74-97-5	
Bromodichloromethane	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	75-27-4	
Bromoform	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	75-25-2	
Bromomethane	**<122**	ug/L	250	122	50		07/29/16 18:09	74-83-9	
n-Butylbenzene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	104-51-8	
sec-Butylbenzene	**<109**	ug/L	250	109	50		07/29/16 18:09	135-98-8	
tert-Butylbenzene	**<9.0**	ug/L	50.0	9.0	50		07/29/16 18:09	98-06-6	
Carbon tetrachloride	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	56-23-5	
Chlorobenzene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	108-90-7	
Chloroethane	**<18.7**	ug/L	50.0	18.7	50		07/29/16 18:09	75-00-3	
Chloroform	**<125**	ug/L	250	125	50		07/29/16 18:09	67-66-3	
Chloromethane	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	74-87-3	
2-Chlorotoluene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	95-49-8	
4-Chlorotoluene	**<10.7**	ug/L	50.0	10.7	50		07/29/16 18:09	106-43-4	
1,2-Dibromo-3-chloropropane	**<108**	ug/L	250	108	50		07/29/16 18:09	96-12-8	
Dibromochloromethane	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	124-48-1	
1,2-Dibromoethane (EDB)	**<8.9**	ug/L	50.0	8.9	50		07/29/16 18:09	106-93-4	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW21 **Lab ID: 40135883014** Collected: 07/26/16 14:50 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<21.3**	ug/L	50.0	21.3	50		07/29/16 18:09	74-95-3	
1,2-Dichlorobenzene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	95-50-1	
1,3-Dichlorobenzene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	541-73-1	
1,4-Dichlorobenzene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	106-46-7	
Dichlorodifluoromethane	**<11.2**	ug/L	50.0	11.2	50		07/29/16 18:09	75-71-8	
1,1-Dichloroethane	**<12.1**	ug/L	50.0	12.1	50		07/29/16 18:09	75-34-3	
1,2-Dichloroethane	**<8.4**	ug/L	50.0	8.4	50		07/29/16 18:09	107-06-2	
1,1-Dichloroethene	**<20.5**	ug/L	50.0	20.5	50		07/29/16 18:09	75-35-4	
cis-1,2-Dichloroethene	**<12.8**	ug/L	50.0	12.8	50		07/29/16 18:09	156-59-2	
trans-1,2-Dichloroethene	**<12.8**	ug/L	50.0	12.8	50		07/29/16 18:09	156-60-5	
1,2-Dichloropropane	**<11.7**	ug/L	50.0	11.7	50		07/29/16 18:09	78-87-5	
1,3-Dichloropropane	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	142-28-9	
2,2-Dichloropropane	**<24.2**	ug/L	50.0	24.2	50		07/29/16 18:09	594-20-7	
1,1-Dichloropropene	**<22.1**	ug/L	50.0	22.1	50		07/29/16 18:09	563-58-6	
cis-1,3-Dichloropropene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	10061-01-5	
trans-1,3-Dichloropropene	**<11.5**	ug/L	50.0	11.5	50		07/29/16 18:09	10061-02-6	
Diisopropyl ether	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	108-20-3	
Ethylbenzene	**2000**	ug/L	50.0	25.0	50		07/29/16 18:09	100-41-4	
Hexachloro-1,3-butadiene	**<105**	ug/L	250	105	50		07/29/16 18:09	87-68-3	
Isopropylbenzene (Cumene)	**74.0**	ug/L	50.0	7.2	50		07/29/16 18:09	98-82-8	
p-Isopropyltoluene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	99-87-6	
Methylene Chloride	**<11.6**	ug/L	50.0	11.6	50		07/29/16 18:09	75-09-2	
Methyl-tert-butyl ether	**<8.7**	ug/L	50.0	8.7	50		07/29/16 18:09	1634-04-4	
Naphthalene	**693**	ug/L	250	125	50		07/29/16 18:09	91-20-3	
n-Propylbenzene	**238**	ug/L	50.0	25.0	50		07/29/16 18:09	103-65-1	
Styrene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	100-42-5	
1,1,1,2-Tetrachloroethane	**<9.0**	ug/L	50.0	9.0	50		07/29/16 18:09	630-20-6	
1,1,2,2-Tetrachloroethane	**<12.5**	ug/L	50.0	12.5	50		07/29/16 18:09	79-34-5	
Tetrachloroethene	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	127-18-4	
Toluene	**4380**	ug/L	50.0	25.0	50		07/29/16 18:09	108-88-3	
1,2,3-Trichlorobenzene	**<107**	ug/L	250	107	50		07/29/16 18:09	87-61-6	
1,2,4-Trichlorobenzene	**<110**	ug/L	250	110	50		07/29/16 18:09	120-82-1	
1,1,1-Trichloroethane	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	50		07/29/16 18:09	79-00-5	
Trichloroethene	**<16.5**	ug/L	50.0	16.5	50		07/29/16 18:09	79-01-6	
Trichlorofluoromethane	**<9.2**	ug/L	50.0	9.2	50		07/29/16 18:09	75-69-4	
1,2,3-Trichloropropane	**<25.0**	ug/L	50.0	25.0	50		07/29/16 18:09	96-18-4	
1,2,4-Trimethylbenzene	**3120**	ug/L	50.0	25.0	50		07/29/16 18:09	95-63-6	
1,3,5-Trimethylbenzene	**751**	ug/L	50.0	25.0	50		07/29/16 18:09	108-67-8	
Vinyl chloride	**<8.8**	ug/L	50.0	8.8	50		07/29/16 18:09	75-01-4	
m&p-Xylene	**7790**	ug/L	100	50.0	50		07/29/16 18:09	179601-23-1	
o-Xylene	**3130**	ug/L	50.0	25.0	50		07/29/16 18:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		50		07/29/16 18:09	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		50		07/29/16 18:09	1868-53-7	
Toluene-d8 (S)	99	%	70-130		50		07/29/16 18:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW21 **Lab ID: 40135883014** Collected: 07/26/16 14:50 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**<10.0**	mg/L	20.0	10.0	5		08/09/16 17:04	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:17		

Sample: MW21 @ 35-40' **Lab ID: 40135883015** Collected: 07/26/16 14:40 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		08/11/16 10:42	7440-43-9	
Iron, Dissolved	**7810**	ug/L	100	12.9	1		08/11/16 10:42	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		08/11/16 10:42	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**363**	ug/L	10.0	5.0	10		08/01/16 09:44	71-43-2	
Bromobenzene	**<2.3**	ug/L	10.0	2.3	10		08/01/16 09:44	108-86-1	
Bromochloromethane	**<3.4**	ug/L	10.0	3.4	10		08/01/16 09:44	74-97-5	
Bromodichloromethane	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	75-27-4	
Bromoform	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	75-25-2	
Bromomethane	**<24.3**	ug/L	50.0	24.3	10		08/01/16 09:44	74-83-9	
n-Butylbenzene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	104-51-8	
sec-Butylbenzene	**<21.9**	ug/L	50.0	21.9	10		08/01/16 09:44	135-98-8	
tert-Butylbenzene	**<1.8**	ug/L	10.0	1.8	10		08/01/16 09:44	98-06-6	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	108-90-7	
Chloroethane	**<3.7**	ug/L	10.0	3.7	10		08/01/16 09:44	75-00-3	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		08/01/16 09:44	67-66-3	
Chloromethane	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	74-87-3	
2-Chlorotoluene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	95-49-8	
4-Chlorotoluene	**<2.1**	ug/L	10.0	2.1	10		08/01/16 09:44	106-43-4	
1,2-Dibromo-3-chloropropane	**<21.6**	ug/L	50.0	21.6	10		08/01/16 09:44	96-12-8	
Dibromochloromethane	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	124-48-1	
1,2-Dibromoethane (EDB)	**<1.8**	ug/L	10.0	1.8	10		08/01/16 09:44	106-93-4	
Dibromomethane	**<4.3**	ug/L	10.0	4.3	10		08/01/16 09:44	74-95-3	
1,2-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	95-50-1	
1,3-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	541-73-1	
1,4-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	106-46-7	
Dichlorodifluoromethane	**<2.2**	ug/L	10.0	2.2	10		08/01/16 09:44	75-71-8	
1,1-Dichloroethane	**<2.4**	ug/L	10.0	2.4	10		08/01/16 09:44	75-34-3	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		08/01/16 09:44	107-06-2	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		08/01/16 09:44	75-35-4	
cis-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		08/01/16 09:44	156-59-2	
trans-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		08/01/16 09:44	156-60-5	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW21 @ 35-40' **Lab ID: 40135883015** Collected: 07/26/16 14:40 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloropropane	**<2.3**	ug/L	10.0	2.3	10		08/01/16 09:44	78-87-5	
1,3-Dichloropropane	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	142-28-9	
2,2-Dichloropropane	**<4.8**	ug/L	10.0	4.8	10		08/01/16 09:44	594-20-7	
1,1-Dichloropropene	**<4.4**	ug/L	10.0	4.4	10		08/01/16 09:44	563-58-6	
cis-1,3-Dichloropropene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	10061-01-5	
trans-1,3-Dichloropropene	**<2.3**	ug/L	10.0	2.3	10		08/01/16 09:44	10061-02-6	
Diisopropyl ether	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	108-20-3	
Ethylbenzene	**11.9**	ug/L	10.0	5.0	10		08/01/16 09:44	100-41-4	
Hexachloro-1,3-butadiene	**<21.1**	ug/L	50.0	21.1	10		08/01/16 09:44	87-68-3	
Isopropylbenzene (Cumene)	**<1.4**	ug/L	10.0	1.4	10		08/01/16 09:44	98-82-8	
p-Isopropyltoluene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	99-87-6	
Methylene Chloride	**<2.3**	ug/L	10.0	2.3	10		08/01/16 09:44	75-09-2	
Methyl-tert-butyl ether	**<1.7**	ug/L	10.0	1.7	10		08/01/16 09:44	1634-04-4	
Naphthalene	**<25.0**	ug/L	50.0	25.0	10		08/01/16 09:44	91-20-3	
n-Propylbenzene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	103-65-1	
Styrene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.8**	ug/L	10.0	1.8	10		08/01/16 09:44	630-20-6	
1,1,2,2-Tetrachloroethane	**<2.5**	ug/L	10.0	2.5	10		08/01/16 09:44	79-34-5	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	127-18-4	
Toluene	**873**	ug/L	10.0	5.0	10		08/01/16 09:44	108-88-3	
1,2,3-Trichlorobenzene	**<21.3**	ug/L	50.0	21.3	10		08/01/16 09:44	87-61-6	
1,2,4-Trichlorobenzene	**<22.1**	ug/L	50.0	22.1	10		08/01/16 09:44	120-82-1	
1,1,1-Trichloroethane	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	71-55-6	
1,1,2-Trichloroethane	**<2.0**	ug/L	10.0	2.0	10		08/01/16 09:44	79-00-5	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		08/01/16 09:44	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/L	10.0	1.8	10		08/01/16 09:44	75-69-4	
1,2,3-Trichloropropane	**<5.0**	ug/L	10.0	5.0	10		08/01/16 09:44	96-18-4	
1,2,4-Trimethylbenzene	**14.9**	ug/L	10.0	5.0	10		08/01/16 09:44	95-63-6	
1,3,5-Trimethylbenzene	**19.8**	ug/L	10.0	5.0	10		08/01/16 09:44	108-67-8	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		08/01/16 09:44	75-01-4	
m&p-Xylene	**180**	ug/L	20.0	10.0	10		08/01/16 09:44	179601-23-1	
o-Xylene	**237**	ug/L	10.0	5.0	10		08/01/16 09:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		10		08/01/16 09:44	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		10		08/01/16 09:44	1868-53-7	
Toluene-d8 (S)	100	%	70-130		10		08/01/16 09:44	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**7.4**	mg/L	4.0	2.0	1		08/09/16 11:44	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:18		

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW22 **Lab ID: 40135883016** Collected: 07/26/16 12:15 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		08/10/16 22:15	7440-43-9	
Iron, Dissolved	**264**	ug/L	100	12.9	1		08/10/16 22:15	7439-89-6	
Lead, Dissolved	**3.6J**	ug/L	12.0	3.0	1		08/10/16 22:15	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		08/01/16 08:16	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		08/01/16 08:16	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		08/01/16 08:16	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		08/01/16 08:16	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/01/16 08:16	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		08/01/16 08:16	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		08/01/16 08:16	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		08/01/16 08:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		08/01/16 08:16	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		08/01/16 08:16	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		08/01/16 08:16	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		08/01/16 08:16	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/01/16 08:16	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/01/16 08:16	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		08/01/16 08:16	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/01/16 08:16	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/01/16 08:16	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		08/01/16 08:16	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		08/01/16 08:16	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		08/01/16 08:16	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/01/16 08:16	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	108-20-3	
Ethylbenzene	**20.6**	ug/L	1.0	0.50	1		08/01/16 08:16	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		08/01/16 08:16	87-68-3	
Isopropylbenzene (Cumene)	**4.6**	ug/L	1.0	0.14	1		08/01/16 08:16	98-82-8	
p-Isopropyltoluene	**1.0**	ug/L	1.0	0.50	1		08/01/16 08:16	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		08/01/16 08:16	75-09-2	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW22 **Lab ID: 40135883016** Collected: 07/26/16 12:15 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/01/16 08:16	1634-04-4	
Naphthalene	**21.0**	ug/L	5.0	2.5	1		08/01/16 08:16	91-20-3	
n-Propylbenzene	**9.2**	ug/L	1.0	0.50	1		08/01/16 08:16	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		08/01/16 08:16	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		08/01/16 08:16	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	127-18-4	
Toluene	**0.52J**	ug/L	1.0	0.50	1		08/01/16 08:16	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		08/01/16 08:16	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		08/01/16 08:16	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		08/01/16 08:16	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		08/01/16 08:16	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		08/01/16 08:16	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 08:16	96-18-4	
1,2,4-Trimethylbenzene	**85.4**	ug/L	1.0	0.50	1		08/01/16 08:16	95-63-6	
1,3,5-Trimethylbenzene	**28.4**	ug/L	1.0	0.50	1		08/01/16 08:16	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		08/01/16 08:16	75-01-4	
m&p-Xylene	**53.8**	ug/L	2.0	1.0	1		08/01/16 08:16	179601-23-1	
o-Xylene	**7.5**	ug/L	1.0	0.50	1		08/01/16 08:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/01/16 08:16	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		08/01/16 08:16	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/01/16 08:16	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**19.5**	mg/L	4.0	2.0	1		08/09/16 12:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**8.1**	mg/L	0.25	0.095	1		08/01/16 11:19		

Sample: MW22 @ 35-40' **Lab ID: 40135883017** Collected: 07/26/16 11:51 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<0.60**	ug/L	5.0	0.60	1		08/10/16 22:17	7440-43-9	
Iron, Dissolved	**30.2J**	ug/L	100	12.9	1		08/10/16 22:17	7439-89-6	
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		08/10/16 22:17	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		08/01/16 09:00	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		08/01/16 09:00	74-97-5	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW22 @ 35-40' **Lab ID: 40135883017** Collected: 07/26/16 11:51 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		08/01/16 09:00	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		08/01/16 09:00	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/01/16 09:00	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		08/01/16 09:00	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		08/01/16 09:00	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		08/01/16 09:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		08/01/16 09:00	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		08/01/16 09:00	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		08/01/16 09:00	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		08/01/16 09:00	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/01/16 09:00	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/01/16 09:00	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		08/01/16 09:00	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/01/16 09:00	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		08/01/16 09:00	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		08/01/16 09:00	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		08/01/16 09:00	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		08/01/16 09:00	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/01/16 09:00	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		08/01/16 09:00	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		08/01/16 09:00	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		08/01/16 09:00	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/01/16 09:00	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		08/01/16 09:00	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		08/01/16 09:00	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		08/01/16 09:00	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	108-88-3	

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ANALYTICAL RESULTS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Sample: MW22 @ 35-40' **Lab ID: 40135883017** Collected: 07/26/16 11:51 Received: 07/28/16 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		08/01/16 09:00	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		08/01/16 09:00	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		08/01/16 09:00	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		08/01/16 09:00	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		08/01/16 09:00	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		08/01/16 09:00	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		08/01/16 09:00	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		08/01/16 09:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		08/01/16 09:00	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		08/01/16 09:00	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		08/01/16 09:00	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**20.5**	mg/L	4.0	2.0	1		08/09/16 12:50	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		08/01/16 11:20		

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QUALITY CONTROL DATA

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

QC Batch: 231190 | Analysis Method: EPA 6010
QC Batch Method: EPA 6010 | Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40135883001, 40135883002, 40135883003, 40135883004, 40135883005, 40135883006, 40135883007, 40135883008, 40135883009, 40135883010, 40135883011, 40135883012, 40135883013, 40135883014

METHOD BLANK: 1371384 | Matrix: Water
Associated Lab Samples: 40135883001, 40135883002, 40135883003, 40135883004, 40135883005, 40135883006, 40135883007, 40135883008, 40135883009, 40135883010, 40135883011, 40135883012, 40135883013, 40135883014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<0.60	5.0	07/29/16 15:29	
Iron, Dissolved	ug/L	<12.9	100	07/29/16 15:29	
Lead, Dissolved	ug/L	3.7J	12.0	07/29/16 15:29	

LABORATORY CONTROL SAMPLE: 1371385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	478	96	80-120	
Iron, Dissolved	ug/L	5000	5150	103	80-120	
Lead, Dissolved	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371386 1371387

Parameter	Units	40135927002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	<5.0	500	500	478	469	96	94	75-125	2	20	
Iron, Dissolved	ug/L	2480	5000	5000	7520	7330	101	97	75-125	3	20	
Lead, Dissolved	ug/L	<12.0	500	500	475	467	95	93	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

QC Batch: 232023 | Analysis Method: EPA 6010
QC Batch Method: EPA 6010 | Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40135883015, 40135883016, 40135883017

METHOD BLANK: 1375965 | Matrix: Water
Associated Lab Samples: 40135883015, 40135883016, 40135883017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<0.60	5.0	08/10/16 21:53	
Iron, Dissolved	ug/L	<12.9	100	08/10/16 21:53	
Lead, Dissolved	ug/L	<3.0	12.0	08/10/16 21:53	

METHOD BLANK: 1375969 | Matrix: Water
Associated Lab Samples: 40135883015, 40135883016, 40135883017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<0.60	5.0	08/10/16 22:34	
Iron, Dissolved	ug/L	<12.9	100	08/10/16 22:34	
Lead, Dissolved	ug/L	<3.0	12.0	08/10/16 22:34	

METHOD BLANK: 1375970 | Matrix: Water
Associated Lab Samples: 40135883015, 40135883016, 40135883017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<0.60	5.0	08/10/16 22:41	
Iron, Dissolved	ug/L	<12.9	100	08/10/16 22:41	
Lead, Dissolved	ug/L	<3.0	12.0	08/10/16 22:41	

LABORATORY CONTROL SAMPLE: 1375966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	487	97	80-120	
Iron, Dissolved	ug/L	5000	5070	101	80-120	
Lead, Dissolved	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1375967 1375968

Parameter	Units	40135855001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	<0.60	500	500	493	496	99	99	75-125	1	20	
Iron, Dissolved	ug/L	665	5000	5000	5640	5730	99	101	75-125	2	20	
Lead, Dissolved	ug/L	4.9J	500	500	469	472	93	93	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

QC Batch: 231112 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 40135883001, 40135883002, 40135883003, 40135883004, 40135883005, 40135883006, 40135883007, 40135883008, 40135883009, 40135883010, 40135883011, 40135883012, 40135883013, 40135883014, 40135883015, 40135883016, 40135883017

METHOD BLANK: 1370974 | Matrix: Water
Associated Lab Samples: 40135883001, 40135883002, 40135883003, 40135883004, 40135883005, 40135883006, 40135883007, 40135883008, 40135883009, 40135883010, 40135883011, 40135883012, 40135883013, 40135883014, 40135883015, 40135883016, 40135883017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	07/29/16 10:08	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	07/29/16 10:08	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	07/29/16 10:08	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	07/29/16 10:08	
1,1-Dichloroethane	ug/L	<0.24	1.0	07/29/16 10:08	
1,1-Dichloroethene	ug/L	<0.41	1.0	07/29/16 10:08	
1,1-Dichloropropene	ug/L	<0.44	1.0	07/29/16 10:08	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	07/29/16 10:08	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	07/29/16 10:08	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	07/29/16 10:08	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	07/29/16 10:08	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	07/29/16 10:08	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	07/29/16 10:08	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	07/29/16 10:08	
1,2-Dichloroethane	ug/L	<0.17	1.0	07/29/16 10:08	
1,2-Dichloropropane	ug/L	<0.23	1.0	07/29/16 10:08	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	07/29/16 10:08	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	07/29/16 10:08	
1,3-Dichloropropane	ug/L	<0.50	1.0	07/29/16 10:08	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	07/29/16 10:08	
2,2-Dichloropropane	ug/L	<0.48	1.0	07/29/16 10:08	
2-Chlorotoluene	ug/L	<0.50	1.0	07/29/16 10:08	
4-Chlorotoluene	ug/L	<0.21	1.0	07/29/16 10:08	
Benzene	ug/L	<0.50	1.0	07/29/16 10:08	
Bromobenzene	ug/L	<0.23	1.0	07/29/16 10:08	
Bromochloromethane	ug/L	<0.34	1.0	07/29/16 10:08	
Bromodichloromethane	ug/L	<0.50	1.0	07/29/16 10:08	
Bromoform	ug/L	<0.50	1.0	07/29/16 10:08	
Bromomethane	ug/L	<2.4	5.0	07/29/16 10:08	
Carbon tetrachloride	ug/L	<0.50	1.0	07/29/16 10:08	
Chlorobenzene	ug/L	<0.50	1.0	07/29/16 10:08	
Chloroethane	ug/L	<0.37	1.0	07/29/16 10:08	
Chloroform	ug/L	<2.5	5.0	07/29/16 10:08	
Chloromethane	ug/L	<0.50	1.0	07/29/16 10:08	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	07/29/16 10:08	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	07/29/16 10:08	
Dibromochloromethane	ug/L	<0.50	1.0	07/29/16 10:08	
Dibromomethane	ug/L	<0.43	1.0	07/29/16 10:08	

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QUALITY CONTROL DATA

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

METHOD BLANK: 1370974 Matrix: Water

Associated Lab Samples: 40135883001, 40135883002, 40135883003, 40135883004, 40135883005, 40135883006, 40135883007, 40135883008, 40135883009, 40135883010, 40135883011, 40135883012, 40135883013, 40135883014, 40135883015, 40135883016, 40135883017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.22	1.0	07/29/16 10:08	
Diisopropyl ether	ug/L	<0.50	1.0	07/29/16 10:08	
Ethylbenzene	ug/L	<0.50	1.0	07/29/16 10:08	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	07/29/16 10:08	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	07/29/16 10:08	
m&p-Xylene	ug/L	<1.0	2.0	07/29/16 10:08	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	07/29/16 10:08	
Methylene Chloride	ug/L	<0.23	1.0	07/29/16 10:08	
n-Butylbenzene	ug/L	<0.50	1.0	07/29/16 10:08	
n-Propylbenzene	ug/L	<0.50	1.0	07/29/16 10:08	
Naphthalene	ug/L	<2.5	5.0	07/29/16 10:08	
o-Xylene	ug/L	<0.50	1.0	07/29/16 10:08	
p-Isopropyltoluene	ug/L	<0.50	1.0	07/29/16 10:08	
sec-Butylbenzene	ug/L	<2.2	5.0	07/29/16 10:08	
Styrene	ug/L	<0.50	1.0	07/29/16 10:08	
tert-Butylbenzene	ug/L	<0.18	1.0	07/29/16 10:08	
Tetrachloroethene	ug/L	<0.50	1.0	07/29/16 10:08	
Toluene	ug/L	<0.50	1.0	07/29/16 10:08	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	07/29/16 10:08	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	07/29/16 10:08	
Trichloroethene	ug/L	<0.33	1.0	07/29/16 10:08	
Trichlorofluoromethane	ug/L	<0.18	1.0	07/29/16 10:08	
Vinyl chloride	ug/L	<0.18	1.0	07/29/16 10:08	
4-Bromofluorobenzene (S)	%	93	70-130	07/29/16 10:08	
Dibromofluoromethane (S)	%	102	70-130	07/29/16 10:08	
Toluene-d8 (S)	%	100	70-130	07/29/16 10:08	

LABORATORY CONTROL SAMPLE: 1370975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.6	109	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	52.7	105	67-130	
1,1,2-Trichloroethane	ug/L	50	52.7	105	70-130	
1,1-Dichloroethane	ug/L	50	53.6	107	70-133	
1,1-Dichloroethene	ug/L	50	47.8	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.8	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.8	106	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	52.3	105	70-130	
1,2-Dichlorobenzene	ug/L	50	51.1	102	70-130	
1,2-Dichloroethane	ug/L	50	51.4	103	70-130	
1,2-Dichloropropane	ug/L	50	50.7	101	70-130	
1,3-Dichlorobenzene	ug/L	50	50.8	102	70-130	

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QUALITY CONTROL DATA

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

LABORATORY CONTROL SAMPLE: 1370975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	51.3	103	70-130	
Benzene	ug/L	50	52.7	105	60-135	
Bromodichloromethane	ug/L	50	53.0	106	70-130	
Bromoform	ug/L	50	51.9	104	70-130	
Bromomethane	ug/L	50	28.4	57	33-130	
Carbon tetrachloride	ug/L	50	54.8	110	70-138	
Chlorobenzene	ug/L	50	52.4	105	70-130	
Chloroethane	ug/L	50	43.4	87	51-130	
Chloroform	ug/L	50	52.1	104	70-130	
Chloromethane	ug/L	50	33.0	66	25-132	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	69-130	
cis-1,3-Dichloropropene	ug/L	50	52.5	105	70-130	
Dibromochloromethane	ug/L	50	52.8	106	70-130	
Dichlorodifluoromethane	ug/L	50	28.8	58	23-130	
Ethylbenzene	ug/L	50	55.5	111	70-136	
Isopropylbenzene (Cumene)	ug/L	50	57.3	115	70-140	
m&p-Xylene	ug/L	100	112	112	70-138	
Methyl-tert-butyl ether	ug/L	50	55.6	111	66-138	
Methylene Chloride	ug/L	50	53.9	108	70-130	
o-Xylene	ug/L	50	54.3	109	70-134	
Styrene	ug/L	50	52.9	106	70-133	
Tetrachloroethene	ug/L	50	52.1	104	70-138	
Toluene	ug/L	50	54.6	109	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	70-131	
trans-1,3-Dichloropropene	ug/L	50	53.7	107	69-130	
Trichloroethene	ug/L	50	52.7	105	70-130	
Trichlorofluoromethane	ug/L	50	46.8	94	50-150	
Vinyl chloride	ug/L	50	42.2	84	49-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371640 1371641

Parameter	Units	40135883001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.5	53.5	107	107	70-134	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	48.9	50.1	98	100	67-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	52.2	52.4	104	105	70-130	0	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	53.1	53.5	106	107	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	46.3	46.0	93	92	68-136	1	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	46.3	47.1	92	93	62-139	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	48.7	50.1	97	100	50-150	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.5	52.3	101	105	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371640 1371641

Parameter	Units	40135883001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.5	48.9	99	98	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	51.3	52.2	103	104	70-130	2	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	52.6	54.2	105	108	70-130	3	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.3	50.0	99	100	70-131	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	49.3	49.6	98	99	70-130	1	20	
Benzene	ug/L	<0.50	50	50	52.2	53.0	104	106	57-138	2	20	
Bromodichloromethane	ug/L	<0.50	50	50	53.0	54.1	106	108	70-130	2	20	
Bromoform	ug/L	<0.50	50	50	51.2	52.0	102	104	70-130	1	20	
Bromomethane	ug/L	<2.4	50	50	30.1	31.4	60	63	33-130	4	27	
Carbon tetrachloride	ug/L	<0.50	50	50	52.6	53.4	105	107	70-138	2	20	
Chlorobenzene	ug/L	<0.50	50	50	52.0	51.4	104	103	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	40.9	40.1	82	80	51-130	2	20	
Chloroform	ug/L	<2.5	50	50	51.1	52.2	102	104	70-130	2	20	
Chloromethane	ug/L	<0.50	50	50	31.3	31.0	62	61	25-132	1	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	50.4	51.9	101	104	61-140	3	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	52.5	54.3	105	109	70-130	3	20	
Dibromochloromethane	ug/L	<0.50	50	50	51.2	50.8	102	102	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	29.1	29.3	58	59	23-130	0	20	
Ethylbenzene	ug/L	<0.50	50	50	55.9	55.0	112	110	70-138	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	56.8	57.3	114	115	70-152	1	20	
m&p-Xylene	ug/L	<1.0	100	100	110	111	110	111	70-140	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	52.5	52.5	105	105	66-139	0	20	
Methylene Chloride	ug/L	<0.23	50	50	48.1	49.3	96	99	70-130	2	20	
o-Xylene	ug/L	<0.50	50	50	54.4	54.2	109	108	70-134	0	20	
Styrene	ug/L	<0.50	50	50	51.7	50.7	103	101	70-138	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	49.9	51.1	100	102	70-148	2	20	
Toluene	ug/L	<0.50	50	50	53.6	54.1	107	108	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	50.8	52.6	102	105	70-133	4	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	53.8	54.9	108	110	69-130	2	20	
Trichloroethene	ug/L	<0.33	50	50	53.2	54.4	106	109	70-131	2	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	46.3	46.8	93	94	50-150	1	20	
Vinyl chloride	ug/L	<0.18	50	50	40.8	41.6	82	83	49-133	2	20	
4-Bromofluorobenzene (S)	%						103	102	70-130			
Dibromofluoromethane (S)	%						103	101	70-130			
Toluene-d8 (S)	%						101	99	70-130			

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QUALITY CONTROL DATA

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

QC Batch: 231287 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40135883001, 40135883002, 40135883003, 40135883004, 40135883005, 40135883006, 40135883007, 40135883008, 40135883009, 40135883010, 40135883011, 40135883012, 40135883013, 40135883014

METHOD BLANK: 1371798 | Matrix: Water
Associated Lab Samples: 40135883001, 40135883002, 40135883003, 40135883004, 40135883005, 40135883006, 40135883007, 40135883008, 40135883009, 40135883010, 40135883011, 40135883012, 40135883013, 40135883014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	08/09/16 11:06	

LABORATORY CONTROL SAMPLE: 1371799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.1	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371800 1371801

Parameter	Units	40135853002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	709	400	400	1120	1120	104	103	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371802 1371803

Parameter	Units	40135883004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	<10.0	100	100	104	105	94	95	90-110	1	20	

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QUALITY CONTROL DATA

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

QC Batch: 231288 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40135883015, 40135883016, 40135883017

METHOD BLANK: 1371804 | Matrix: Water
Associated Lab Samples: 40135883015, 40135883016, 40135883017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	08/09/16 10:15	

LABORATORY CONTROL SAMPLE: 1371805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371806 1371807

Parameter	Units	40135883015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	7.4	20	20	28.3	28.7	104	106	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371913 1371914

Parameter	Units	40135990001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	44.2J	400	400	427	425	96	95	90-110	0	20	

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QUALITY CONTROL DATA

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

QC Batch: 231182 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40135883001, 40135883002, 40135883003, 40135883004, 40135883005, 40135883006, 40135883007, 40135883008, 40135883009, 40135883010, 40135883011, 40135883012, 40135883013, 40135883014, 40135883015, 40135883016, 40135883017

METHOD BLANK: 1371265 | Matrix: Water
Associated Lab Samples: 40135883001, 40135883002, 40135883003, 40135883004, 40135883005, 40135883006, 40135883007, 40135883008, 40135883009, 40135883010, 40135883011, 40135883012, 40135883013, 40135883014, 40135883015, 40135883016, 40135883017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	08/01/16 10:56	

LABORATORY CONTROL SAMPLE: 1371266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371267 1371268

Parameter	Units	40135883008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	1.9	2.5	2.5	2.7	2.7	32	34	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371269 1371270

Parameter	Units	40135890001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.83	2.5	2.5	3.3	3.3	100	100	90-110	0	20	

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QUALIFIERS

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40135883001	**MW1-LDF**	EPA 6010	231190		
40135883002	**MW2-LDF**	EPA 6010	231190		
40135883003	**MW3-LDF**	EPA 6010	231190		
40135883004	**MW16**	EPA 6010	231190		
40135883005	**MW16 @ 37-42'**	EPA 6010	231190		
40135883006	**MW17**	EPA 6010	231190		
40135883007	**MW17 @ 31-36'**	EPA 6010	231190		
40135883008	**MW18**	EPA 6010	231190		
40135883009	**MW18 @ 35-40'**	EPA 6010	231190		
40135883010	**MW19**	EPA 6010	231190		
40135883011	**MW19 @ 35-40'**	EPA 6010	231190		
40135883012	**MW20**	EPA 6010	231190		
40135883013	**MW20 @ 20-25'**	EPA 6010	231190		
40135883014	**MW21**	EPA 6010	231190		
40135883015	**MW21 @ 35-40'**	EPA 6010	232023		
40135883016	**MW22**	EPA 6010	232023		
40135883017	**MW22 @ 35-40'**	EPA 6010	232023		
40135883001	**MW1-LDF**	EPA 8260	231112		
40135883002	**MW2-LDF**	EPA 8260	231112		
40135883003	**MW3-LDF**	EPA 8260	231112		
40135883004	**MW16**	EPA 8260	231112		
40135883005	**MW16 @ 37-42'**	EPA 8260	231112		
40135883006	**MW17**	EPA 8260	231112		
40135883007	**MW17 @ 31-36'**	EPA 8260	231112		
40135883008	**MW18**	EPA 8260	231112		
40135883009	**MW18 @ 35-40'**	EPA 8260	231112		
40135883010	**MW19**	EPA 8260	231112		
40135883011	**MW19 @ 35-40'**	EPA 8260	231112		
40135883012	**MW20**	EPA 8260	231112		
40135883013	**MW20 @ 20-25'**	EPA 8260	231112		
40135883014	**MW21**	EPA 8260	231112		
40135883015	**MW21 @ 35-40'**	EPA 8260	231112		
40135883016	**MW22**	EPA 8260	231112		
40135883017	**MW22 @ 35-40'**	EPA 8260	231112		
40135883001	**MW1-LDF**	EPA 300.0	231287		
40135883002	**MW2-LDF**	EPA 300.0	231287		
40135883003	**MW3-LDF**	EPA 300.0	231287		
40135883004	**MW16**	EPA 300.0	231287		
40135883005	**MW16 @ 37-42'**	EPA 300.0	231287		
40135883006	**MW17**	EPA 300.0	231287		
40135883007	**MW17 @ 31-36'**	EPA 300.0	231287		
40135883008	**MW18**	EPA 300.0	231287		
40135883009	**MW18 @ 35-40'**	EPA 300.0	231287		
40135883010	**MW19**	EPA 300.0	231287		
40135883011	**MW19 @ 35-40'**	EPA 300.0	231287		
40135883012	**MW20**	EPA 300.0	231287		
40135883013	**MW20 @ 20-25'**	EPA 300.0	231287		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 903 AXUC TOWER STANDARD
Pace Project No.: 40135883

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40135883014	**MW21**	EPA 300.0	231287		
40135883015	**MW21 @ 35-40'**	EPA 300.0	231288		
40135883016	**MW22**	EPA 300.0	231288		
40135883017	**MW22 @ 35-40'**	EPA 300.0	231288		
40135883001	**MW1-LDF**	EPA 353.2	231182		
40135883002	**MW2-LDF**	EPA 353.2	231182		
40135883003	**MW3-LDF**	EPA 353.2	231182		
40135883004	**MW16**	EPA 353.2	231182		
40135883005	**MW16 @ 37-42'**	EPA 353.2	231182		
40135883006	**MW17**	EPA 353.2	231182		
40135883007	**MW17 @ 31-36'**	EPA 353.2	231182		
40135883008	**MW18**	EPA 353.2	231182		
40135883009	**MW18 @ 35-40'**	EPA 353.2	231182		
40135883010	**MW19**	EPA 353.2	231182		
40135883011	**MW19 @ 35-40'**	EPA 353.2	231182		
40135883012	**MW20**	EPA 353.2	231182		
40135883013	**MW20 @ 20-25'**	EPA 353.2	231182		
40135883014	**MW21**	EPA 353.2	231182		
40135883015	**MW21 @ 35-40'**	EPA 353.2	231182		
40135883016	**MW22**	EPA 353.2	231182		
40135883017	**MW22 @ 35-40'**	EPA 353.2	231182		

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

SKW

40135883

CHAIN OF CUSTODY

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

(Please Print Clearly)

Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Dave Larsen
Phone:	715-675-9784
Project Number:	903 AXUC
Project Name:	Tower Standard
Project State:	WI
Sampled By (Print):	Jared Szews
Sampled By (Sign):	Jared Szews
PO #:	
Regulatory Program:	PECFA UTC

Quote #:	
Mail To Contact:	Dave Larsen
Mail To Company:	REI
Mail To Address:	DLarsen@REIengineering.com
Invoice To Contact:	SAA
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

Analyses Requested	VOC	Sulfate	Nitrate, Nitrite	Dis Pb, Dis Fe, Dis Cadmium					CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
Y/N	N	N	N	Y							
Pick Letter	B	A	C	D							

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	VOC	Sulfate	Nitrate, Nitrite	Dis Pb, Dis Fe, Dis Cadmium	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW1-LDF	7/26/16	8:35	GW						3-40ml B 3-250mlp ACD	
002	MW2-LDF		9:15								
003	MW3-LDF		9:50								
004	MW16		1:55								
005	MW16@37-42'		2:10								
006	MW17		12:55								
007	MW17@31-36'		12:40								
008	MW18		10:20								
009	MW18@35-40'		11:00								
010	MW19		1:19								
011	MW19@35-40'		1:40								
012	MW20		3:06								
013	MW20@20-25'		3:21								

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:
[signature]	7/27/16 4:00 P		
Walter	7-28-16 0850	Melissa Venema Pace	7-28-16 0850

PACE Project No. 40135883

Receipt Temp = R0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

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CHAIN OF CUSTODY

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

(Please Print Clearly)

Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Dave Larsen
Phone:	715-675-9784
Project Number:	903 AXUL
Project Name:	Tower Standard
Project State:	WI
Sampled By (Print):	Jared Szews
Sampled By (Sign):	Jared Szews
PO #:	
Regulatory Program:	PECFA UTC

Quote #:	
Mail To Contact:	Dave Larsen
Mail To Company:	REI
Mail To Address:	DLarsen@REIengineering.com
Invoice To Contact:	SAA
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

Analyses Requested	VOC	Sulfate	Nitrate, Nitrite	Dis Pb, Dis Fe, Dis Cadmium					CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
Y/N	N	N	N	Y							
Pick Letter	B	A	C	D							
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX							
014	MW21	7/26/16	2:50	GW						3-40ml B	3-250ml p ACD
015	MW21@35-40'		2:40								
016	MW22		12:15								
017	MW22@35-40'		11:51								

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

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:
[signature]	7/27/16 4:00P		
Waltco	7-28-16 0850	Melissa Venema Pace	7-28-16 0850

PACE Project No. 40135883

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

Sample Condition Upon Receipt

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

Pace Analytical

Project #: **WO# : 40135883**

40135883

Client Name: REI

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Walter

Tracking #: 1117345

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

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

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

Cooler Temperature Uncorr: /Corr: R01 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 7-28-16
Initials: MV

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

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes ☐No ☐N/A	13. ☑ HNO3 ☑ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 <2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed MV / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	14.
Trip Blank Present:	☐Yes ☑No ☐N/A	15.
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:** 7-28-16

F-GB-C-031-Rev.03 (9April2015) SCUR Form

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

February 26, 2018

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

RE: Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 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

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CERTIFICATIONS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

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

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SAMPLE SUMMARY

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40164975001	**MW-18**	Water	02/19/18 11:31	02/22/18 08:30
40164975002	**MW-18 @ 35-40**	Water	02/19/18 11:53	02/22/18 08:30
40164975003	**MW-19**	Water	02/19/18 12:22	02/22/18 08:30
40164975004	**MW-19 @ 31-36**	Water	02/19/18 12:53	02/22/18 08:30
40164975005	**MW-22**	Water	02/19/18 13:21	02/22/18 08:30
40164975006	**MW-22 @ 35-40**	Water	02/19/18 13:44	02/22/18 08:30

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SAMPLE ANALYTE COUNT

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40164975001	**MW-18**	EPA 8260	LAP	15
40164975002	**MW-18 @ 35-40**	EPA 8260	LAP	15
40164975003	**MW-19**	EPA 8260	LAP	15
40164975004	**MW-19 @ 31-36**	EPA 8260	LAP	15
40164975005	**MW-22**	EPA 8260	LAP	15
40164975006	**MW-22 @ 35-40**	EPA 8260	LAP	15

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

Sample: MW-18 **Lab ID: 40164975001** Collected: 02/19/18 11:31 Received: 02/22/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 12:25	71-43-2	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/23/18 12:25	106-93-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/23/18 12:25	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 12:25	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/23/18 12:25	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/23/18 12:25	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 12:25	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 12:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 12:25	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		02/23/18 12:25	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/23/18 12:25	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 12:25	95-47-6	
Surrogates									
Dibromofluoromethane (S)	105	%	67-130		1		02/23/18 12:25	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		02/23/18 12:25	2037-26-5	
4-Bromofluorobenzene (S)	85	%	61-130		1		02/23/18 12:25	460-00-4	

Sample: MW-18 @ 35-40 **Lab ID: 40164975002** Collected: 02/19/18 11:53 Received: 02/22/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 14:27	71-43-2	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/23/18 14:27	106-93-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/23/18 14:27	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 14:27	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/23/18 14:27	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/23/18 14:27	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 14:27	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 14:27	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 14:27	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		02/23/18 14:27	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/23/18 14:27	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 14:27	95-47-6	
Surrogates									
Dibromofluoromethane (S)	113	%	67-130		1		02/23/18 14:27	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		02/23/18 14:27	2037-26-5	
4-Bromofluorobenzene (S)	87	%	61-130		1		02/23/18 14:27	460-00-4	

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

Sample: MW-19 **Lab ID: 40164975003** Collected: 02/19/18 12:22 Received: 02/22/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 15:35	71-43-2	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/23/18 15:35	106-93-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/23/18 15:35	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 15:35	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/23/18 15:35	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/23/18 15:35	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 15:35	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 15:35	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 15:35	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		02/23/18 15:35	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/23/18 15:35	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/23/18 15:35	95-47-6	
Surrogates									
Dibromofluoromethane (S)	112	%	67-130		1		02/23/18 15:35	1868-53-7	
Toluene-d8 (S)	86	%	70-130		1		02/23/18 15:35	2037-26-5	
4-Bromofluorobenzene (S)	78	%	61-130		1		02/23/18 15:35	460-00-4	

Sample: MW-19 @ 31-36 **Lab ID: 40164975004** Collected: 02/19/18 12:53 Received: 02/22/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**870**	ug/L	25.0	12.5	25		02/26/18 10:48	71-43-2	
1,2-Dibromoethane (EDB)	**<4.4**	ug/L	25.0	4.4	25		02/26/18 10:48	106-93-4	
1,2-Dichloroethane	**<4.2**	ug/L	25.0	4.2	25		02/26/18 10:48	107-06-2	
Ethylbenzene	**1820**	ug/L	25.0	12.5	25		02/26/18 10:48	100-41-4	
Methyl-tert-butyl ether	**<4.4**	ug/L	25.0	4.4	25		02/26/18 10:48	1634-04-4	
Naphthalene	**309**	ug/L	125	62.5	25		02/26/18 10:48	91-20-3	
Toluene	**987**	ug/L	25.0	12.5	25		02/26/18 10:48	108-88-3	
1,2,4-Trimethylbenzene	**1070**	ug/L	25.0	12.5	25		02/26/18 10:48	95-63-6	
1,3,5-Trimethylbenzene	**253**	ug/L	25.0	12.5	25		02/26/18 10:48	108-67-8	
Xylene (Total)	**7910**	ug/L	75.0	37.5	25		02/26/18 10:48	1330-20-7	
m&p-Xylene	**6390**	ug/L	50.0	25.0	25		02/26/18 10:48	179601-23-1	
o-Xylene	**1520**	ug/L	25.0	12.5	25		02/26/18 10:48	95-47-6	
Surrogates									
Dibromofluoromethane (S)	104	%	67-130		25		02/26/18 10:48	1868-53-7	
Toluene-d8 (S)	92	%	70-130		25		02/26/18 10:48	2037-26-5	
4-Bromofluorobenzene (S)	102	%	61-130		25		02/26/18 10:48	460-00-4	

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

Sample: MW-22 **Lab ID: 40164975005** Collected: 02/19/18 13:21 Received: 02/22/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<2.0**	ug/L	4.0	2.0	4		02/26/18 10:25	71-43-2	
1,2-Dibromoethane (EDB)	**<0.71**	ug/L	4.0	0.71	4		02/26/18 10:25	106-93-4	
1,2-Dichloroethane	**<0.67**	ug/L	4.0	0.67	4		02/26/18 10:25	107-06-2	
Ethylbenzene	**43.9**	ug/L	4.0	2.0	4		02/26/18 10:25	100-41-4	
Methyl-tert-butyl ether	**<0.70**	ug/L	4.0	0.70	4		02/26/18 10:25	1634-04-4	
Naphthalene	**58.4**	ug/L	20.0	10.0	4		02/26/18 10:25	91-20-3	
Toluene	**<2.0**	ug/L	4.0	2.0	4		02/26/18 10:25	108-88-3	
1,2,4-Trimethylbenzene	**390**	ug/L	4.0	2.0	4		02/26/18 10:25	95-63-6	
1,3,5-Trimethylbenzene	**72.8**	ug/L	4.0	2.0	4		02/26/18 10:25	108-67-8	
Xylene (Total)	**119**	ug/L	12.0	6.0	4		02/26/18 10:25	1330-20-7	
m&p-Xylene	**95.0**	ug/L	8.0	4.0	4		02/26/18 10:25	179601-23-1	
o-Xylene	**24.3**	ug/L	4.0	2.0	4		02/26/18 10:25	95-47-6	
Surrogates									
Dibromofluoromethane (S)	106	%	67-130		4		02/26/18 10:25	1868-53-7	
Toluene-d8 (S)	89	%	70-130		4		02/26/18 10:25	2037-26-5	
4-Bromofluorobenzene (S)	98	%	61-130		4		02/26/18 10:25	460-00-4	

Sample: MW-22 @ 35-40 **Lab ID: 40164975006** Collected: 02/19/18 13:44 Received: 02/22/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		02/26/18 10:02	71-43-2	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/26/18 10:02	106-93-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/26/18 10:02	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/26/18 10:02	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/26/18 10:02	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/26/18 10:02	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/26/18 10:02	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/26/18 10:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/26/18 10:02	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		02/26/18 10:02	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/26/18 10:02	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/26/18 10:02	95-47-6	
Surrogates									
Dibromofluoromethane (S)	110	%	67-130		1		02/26/18 10:02	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		02/26/18 10:02	2037-26-5	
4-Bromofluorobenzene (S)	85	%	61-130		1		02/26/18 10:02	460-00-4	

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

QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

QC Batch: 281754 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40164975002, 40164975003, 40164975004, 40164975005, 40164975006

METHOD BLANK: 1651400 | Matrix: Water
Associated Lab Samples: 40164975002, 40164975003, 40164975004, 40164975005, 40164975006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	02/23/18 12:57	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	02/23/18 12:57	
1,2-Dichloroethane	ug/L	<0.17	1.0	02/23/18 12:57	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	02/23/18 12:57	
Benzene	ug/L	<0.50	1.0	02/23/18 12:57	
Ethylbenzene	ug/L	<0.50	1.0	02/23/18 12:57	
m&p-Xylene	ug/L	<1.0	2.0	02/23/18 12:57	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	02/23/18 12:57	
Naphthalene	ug/L	<2.5	5.0	02/23/18 12:57	
o-Xylene	ug/L	<0.50	1.0	02/23/18 12:57	
Toluene	ug/L	<0.50	1.0	02/23/18 12:57	
Xylene (Total)	ug/L	<1.5	3.0	02/23/18 12:57	
4-Bromofluorobenzene (S)	%	82	61-130	02/23/18 12:57	
Dibromofluoromethane (S)	%	116	67-130	02/23/18 12:57	
Toluene-d8 (S)	%	93	70-130	02/23/18 12:57	

LABORATORY CONTROL SAMPLE: 1651401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane	ug/L	20	20.2	101	70-131	
Benzene	ug/L	20	15.6	78	73-145	
Ethylbenzene	ug/L	20	18.0	90	87-129	
m&p-Xylene	ug/L	40	41.0	102	70-130	
Methyl-tert-butyl ether	ug/L	20	18.3	92	66-143	
o-Xylene	ug/L	20	19.1	96	70-130	
Toluene	ug/L	20	19.5	98	82-130	
Xylene (Total)	ug/L	60	60.1	100	70-130	
4-Bromofluorobenzene (S)	%			100	61-130	
Dibromofluoromethane (S)	%			102	67-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1652142 1652143

Parameter	Units	40164975002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.9	48.8	106	98	70-130	8	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	48.0	45.9	96	92	70-131	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1652142 1652143

Parameter	Units	40164975002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	40.2	41.4	80	83	73-145	3	20	
Ethylbenzene	ug/L	<0.50	50	50	52.5	49.4	105	99	87-129	6	20	
m&p-Xylene	ug/L	<1.0	100	100	109	105	109	105	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	45.9	46.3	92	93	66-143	1	20	
o-Xylene	ug/L	<0.50	50	50	57.6	52.5	115	105	70-130	9	20	
Toluene	ug/L	<0.50	50	50	52.4	50.9	105	102	82-131	3	20	
Xylene (Total)	ug/L	<1.5	150	150	167	157	111	105	70-130	6	20	
4-Bromofluorobenzene (S)	%						103	96	61-130			
Dibromofluoromethane (S)	%						106	103	67-130			
Toluene-d8 (S)	%						92	86	70-130			

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

QC Batch: 281756 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40164975001

METHOD BLANK: 1651406 | Matrix: Water
Associated Lab Samples: 40164975001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	02/23/18 10:57	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	02/23/18 10:57	
1,2-Dichloroethane	ug/L	<0.17	1.0	02/23/18 10:57	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	02/23/18 10:57	
Benzene	ug/L	<0.50	1.0	02/23/18 10:57	
Ethylbenzene	ug/L	<0.50	1.0	02/23/18 10:57	
m&p-Xylene	ug/L	<1.0	2.0	02/23/18 10:57	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	02/23/18 10:57	
Naphthalene	ug/L	<2.5	5.0	02/23/18 10:57	
o-Xylene	ug/L	<0.50	1.0	02/23/18 10:57	
Toluene	ug/L	<0.50	1.0	02/23/18 10:57	
Xylene (Total)	ug/L	<1.5	3.0	02/23/18 10:57	
4-Bromofluorobenzene (S)	%	82	61-130	02/23/18 10:57	
Dibromofluoromethane (S)	%	102	67-130	02/23/18 10:57	
Toluene-d8 (S)	%	93	70-130	02/23/18 10:57	

LABORATORY CONTROL SAMPLE: 1651407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	42.9	86	70-130	
1,2-Dichloroethane	ug/L	50	41.4	83	70-131	
Benzene	ug/L	50	43.2	86	73-145	
Ethylbenzene	ug/L	50	47.0	94	87-129	
m&p-Xylene	ug/L	100	95.6	96	70-130	
Methyl-tert-butyl ether	ug/L	50	46.3	93	66-143	
o-Xylene	ug/L	50	46.6	93	70-130	
Toluene	ug/L	50	45.3	91	82-130	
Xylene (Total)	ug/L	150	142	95	70-130	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			99	67-130	
Toluene-d8 (S)	%			101	70-130	

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

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QUALIFIERS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40164975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40164975001	**MW-18**	EPA 8260	281756		
40164975002	**MW-18 @ 35-40**	EPA 8260	281754		
40164975003	**MW-19**	EPA 8260	281754		
40164975004	**MW-19 @ 31-36**	EPA 8260	281754		
40164975005	**MW-22**	EPA 8260	281754		
40164975006	**MW-22 @ 35-40**	EPA 8260	281754		

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

Page 1 of 1

CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Dave Lassen
Phone:	(715) 675-9784
Project Number:	903AXLC
Project Name:	Tower Standard
Project State:	WI
Sampled By (Print):	Jed Kosell
Sampled By (Sign):	
PO #:	
Regulatory Program:	PECFA

Quote #:	40164975
Mail To Contact:	Dave Lassen
Mail To Company:	REI
Mail To Address:	dlassen@reiengineering.com
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

*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

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, Sl = 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: PVOC VN	1,2 DCA	EDB	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
FILTERED? (YES/NO)					N	N	N			
PRESERVATION (CODE)*					B	B	B			
001	MW-18	2/19/18	11:31	GW	✓	✓	✓			
002	MW-18 @ 35-40	✓	11:53	✓	✓	✓	✓			
003	MW-19	✓	12:22	✓	✓	✓	✓			
004	MW-19 @ 31-36	✓	12:53	✓	✓	✓	✓			
005	MW-20	✓	1:21	✓	✓	✓	✓			
006	MW-20 @ 35-40	✓	1:44	✓	✓	✓	✓			

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:
	2/21/18 1:00		
Waltco	2/22/18 0830	Kate Schramm Pace	2/22/18 0830

PACE Project No. 40164975
Receipt Temp = R01 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: REI

Project # 40164975

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	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																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
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013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

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

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 31Jan2018
	Document No.: **F-GB-C-031-rev.06**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO#: 40164975**

40164975

Client Name: REI

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

Tracking #: 1647618-1

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

Cooler Temperature Uncorr: /Corr: R01

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: 2/22/18
Initials: KJ

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume: ☐Yes ☑No ☐N/A MS/MSD	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: KJ 2/22/18	☑Yes (☑No) ☐N/A	12. 001 time 1131
-Includes date/time/ID/Analysis Matrix: W		KJ 2/22/18
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:** 2-22-18

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1241 Bellevue Street - Suite 9
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July 10, 2018

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

RE: Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

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

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CERTIFICATIONS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

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 #: 2926.01 via A2LA

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

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SAMPLE SUMMARY

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40171741001	**MW-18**	Water	06/28/18 09:31	06/29/18 09:05
40171741002	**MW-18 @ 35-40**	Water	06/28/18 10:02	06/29/18 09:05
40171741003	**MW-19**	Water	06/28/18 10:56	06/29/18 09:05
40171741004	**MW-19 @ 31-36**	Water	06/28/18 11:25	06/29/18 09:05
40171741005	**MW-22**	Water	06/28/18 12:05	06/29/18 09:05
40171741006	**MW-22 @ 35-40**	Water	06/28/18 12:42	06/29/18 09:05
40171741007	**REPLACEMENT WELL**	Water	06/28/18 14:35	06/29/18 09:05
40171741008	**KOZAK WELL**	Water	06/28/18 16:00	06/29/18 09:05

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SAMPLE ANALYTE COUNT

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40171741001	**MW-18**	EPA 6010	JLD	3	PASI-G
		EPA 8260	HNW	15	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
40171741002	**MW-18 @ 35-40**	EPA 6010	JLD	3	PASI-G
		EPA 8260	HNW	15	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
40171741003	**MW-19**	EPA 6010	JLD	3	PASI-G
		EPA 8260	HNW	15	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
40171741004	**MW-19 @ 31-36**	EPA 6010	JLD	3	PASI-G
		EPA 8260	HNW	15	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
40171741005	**MW-22**	EPA 6010	JLD	3	PASI-G
		EPA 8260	HNW	15	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
40171741006	**MW-22 @ 35-40**	EPA 6010	JLD	3	PASI-G
		EPA 8260	HNW	15	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
40171741007	**REPLACEMENT WELL**	EPA 524.2	AEZ	62	PASI-M
40171741008	**KOZAK WELL**	EPA 524.2	AEZ	62	PASI-M

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Sample: MW-18 **Lab ID: 40171741001** Collected: 06/28/18 09:31 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		07/02/18 13:08	7440-43-9	
Iron, Dissolved	**<15.5**	ug/L	100	15.5	1		07/02/18 13:08	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		07/02/18 13:08	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 17:42	71-43-2	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/06/18 17:42	106-93-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/06/18 17:42	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 17:42	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/06/18 17:42	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/06/18 17:42	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 17:42	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 17:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 17:42	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		07/06/18 17:42	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/06/18 17:42	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 17:42	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		07/06/18 17:42	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		07/06/18 17:42	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		07/06/18 17:42	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.075**	mg/L	0.22	0.075	1		06/29/18 13:46	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**13.6**	mg/L	3.0	1.0	1		06/29/18 13:46	14808-79-8	

Sample: MW-18 @ 35-40 **Lab ID: 40171741002** Collected: 06/28/18 10:02 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		07/02/18 13:10	7440-43-9	
Iron, Dissolved	**36.3J**	ug/L	100	15.5	1		07/02/18 13:10	7439-89-6	
Lead, Dissolved	**6.6J**	ug/L	13.0	4.3	1		07/02/18 13:10	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:03	71-43-2	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/06/18 18:03	106-93-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/06/18 18:03	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:03	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/06/18 18:03	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/06/18 18:03	91-20-3	

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Sample: MW-18 @ 35-40 **Lab ID: 40171741002** Collected: 06/28/18 10:02 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:03	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:03	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		07/06/18 18:03	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/06/18 18:03	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:03	95-47-6	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		1		07/06/18 18:03	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		07/06/18 18:03	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		07/06/18 18:03	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.075**	mg/L	0.22	0.075	1		06/29/18 14:00	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**4.5**	mg/L	3.0	1.0	1		06/29/18 14:00	14808-79-8	

Sample: MW-19 **Lab ID: 40171741003** Collected: 06/28/18 10:56 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		07/02/18 13:13	7440-43-9	
Iron, Dissolved	**143**	ug/L	100	15.5	1		07/02/18 13:13	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		07/02/18 13:13	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:25	71-43-2	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/06/18 18:25	106-93-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/06/18 18:25	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:25	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/06/18 18:25	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/06/18 18:25	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:25	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:25	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		07/06/18 18:25	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/06/18 18:25	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:25	95-47-6	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		1		07/06/18 18:25	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		07/06/18 18:25	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		07/06/18 18:25	460-00-4	

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Sample: MW-19 **Lab ID: 40171741003** Collected: 06/28/18 10:56 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.13J**	mg/L	0.22	0.075	1		06/29/18 14:13	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**4.8**	mg/L	3.0	1.0	1		06/29/18 14:13	14808-79-8	

Sample: MW-19 @ 31-36 **Lab ID: 40171741004** Collected: 06/28/18 11:25 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		07/02/18 13:15	7440-43-9	
Iron, Dissolved	**28800**	ug/L	100	15.5	1		07/02/18 13:15	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		07/02/18 13:15	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**275**	ug/L	25.0	12.5	25		07/06/18 16:59	71-43-2	
1,2-Dibromoethane (EDB)	**<4.4**	ug/L	25.0	4.4	25		07/06/18 16:59	106-93-4	
1,2-Dichloroethane	**<4.2**	ug/L	25.0	4.2	25		07/06/18 16:59	107-06-2	
Ethylbenzene	**1220**	ug/L	25.0	12.5	25		07/06/18 16:59	100-41-4	
Methyl-tert-butyl ether	**<4.4**	ug/L	25.0	4.4	25		07/06/18 16:59	1634-04-4	
Naphthalene	**269**	ug/L	125	62.5	25		07/06/18 16:59	91-20-3	
Toluene	**480**	ug/L	25.0	12.5	25		07/06/18 16:59	108-88-3	
1,2,4-Trimethylbenzene	**895**	ug/L	25.0	12.5	25		07/06/18 16:59	95-63-6	
1,3,5-Trimethylbenzene	**232**	ug/L	25.0	12.5	25		07/06/18 16:59	108-67-8	
Xylene (Total)	**3570**	ug/L	75.0	37.5	25		07/06/18 16:59	1330-20-7	
m&p-Xylene	**3150**	ug/L	50.0	25.0	25		07/06/18 16:59	179601-23-1	
o-Xylene	**425**	ug/L	25.0	12.5	25		07/06/18 16:59	95-47-6	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		25		07/06/18 16:59	1868-53-7	
Toluene-d8 (S)	97	%	70-130		25		07/06/18 16:59	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		25		07/06/18 16:59	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.38**	mg/L	1.1	0.38	5		06/29/18 14:26	14797-55-8	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**<5.0**	mg/L	15.0	5.0	5		06/29/18 14:26	14808-79-8	D3

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Sample: MW-22 **Lab ID: 40171741005** Collected: 06/28/18 12:05 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		07/02/18 13:17	7440-43-9	
Iron, Dissolved	**<15.5**	ug/L	100	15.5	1		07/02/18 13:17	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		07/02/18 13:17	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/09/18 19:01	71-43-2	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/09/18 19:01	106-93-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/09/18 19:01	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/09/18 19:01	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/09/18 19:01	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/09/18 19:01	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/09/18 19:01	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/09/18 19:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/09/18 19:01	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		07/09/18 19:01	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/09/18 19:01	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/09/18 19:01	95-47-6	
Surrogates									
Dibromofluoromethane (S)	116	%	70-130		1		07/09/18 19:01	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		07/09/18 19:01	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		07/09/18 19:01	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**9.6**	mg/L	1.1	0.38	5		06/29/18 19:47	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**16.3**	mg/L	3.0	1.0	1		06/29/18 14:40	14808-79-8	

Sample: MW-22 @ 35-40 **Lab ID: 40171741006** Collected: 06/28/18 12:42 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		07/02/18 13:20	7440-43-9	
Iron, Dissolved	**<15.5**	ug/L	100	15.5	1		07/02/18 13:20	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		07/02/18 13:20	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:46	71-43-2	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/06/18 18:46	106-93-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/06/18 18:46	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:46	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/06/18 18:46	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/06/18 18:46	91-20-3	

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Sample: MW-22 @ 35-40 **Lab ID: 40171741006** Collected: 06/28/18 12:42 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:46	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:46	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:46	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		07/06/18 18:46	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/06/18 18:46	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/06/18 18:46	95-47-6	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		07/06/18 18:46	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		07/06/18 18:46	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		07/06/18 18:46	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.23**	mg/L	0.22	0.075	1		06/29/18 14:53	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**22.5**	mg/L	3.0	1.0	1		06/29/18 14:53	14808-79-8	

Sample: REPLACEMENT WELL **Lab ID: 40171741007** Collected: 06/28/18 14:35 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.11**	ug/L	0.37	0.11	1		07/06/18 13:27	71-43-2	
Bromobenzene	**<0.12**	ug/L	0.40	0.12	1		07/06/18 13:27	108-86-1	
Bromochloromethane	**<0.38**	ug/L	1.3	0.38	1		07/06/18 13:27	74-97-5	
Bromodichloromethane	**<0.14**	ug/L	0.48	0.14	1		07/06/18 13:27	75-27-4	
Bromoform	**<1.0**	ug/L	3.5	1.0	1		07/06/18 13:27	75-25-2	
Bromomethane	**<1.1**	ug/L	3.8	1.1	1		07/06/18 13:27	74-83-9	
n-Butylbenzene	**<0.12**	ug/L	0.40	0.12	1		07/06/18 13:27	104-51-8	
sec-Butylbenzene	**<0.12**	ug/L	0.41	0.12	1		07/06/18 13:27	135-98-8	
tert-Butylbenzene	**<0.15**	ug/L	0.49	0.15	1		07/06/18 13:27	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	0.57	0.17	1		07/06/18 13:27	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.38	0.11	1		07/06/18 13:27	108-90-7	
Chloroethane	**<0.32**	ug/L	1.1	0.32	1		07/06/18 13:27	75-00-3	
Chloroform	**<0.46**	ug/L	1.5	0.46	1		07/06/18 13:27	67-66-3	
Chloromethane	**<1.1**	ug/L	3.6	1.1	1		07/06/18 13:27	74-87-3	
2-Chlorotoluene	**<0.078**	ug/L	0.26	0.078	1		07/06/18 13:27	95-49-8	
4-Chlorotoluene	**<0.089**	ug/L	0.30	0.089	1		07/06/18 13:27	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	3.4	1.0	1		07/06/18 13:27	96-12-8	
Dibromochloromethane	**<0.13**	ug/L	0.45	0.13	1		07/06/18 13:27	124-48-1	
1,2-Dibromoethane (EDB)	**<0.14**	ug/L	0.46	0.14	1		07/06/18 13:27	106-93-4	
Dibromomethane	**<0.50**	ug/L	1.7	0.50	1		07/06/18 13:27	74-95-3	
1,2-Dichlorobenzene	**<0.077**	ug/L	0.26	0.077	1		07/06/18 13:27	95-50-1	
1,3-Dichlorobenzene	**<0.074**	ug/L	0.25	0.074	1		07/06/18 13:27	541-73-1	

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Sample: REPLACEMENT WELL **Lab ID: 40171741007** Collected: 06/28/18 14:35 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
1,4-Dichlorobenzene	**<0.073**	ug/L	0.24	0.073	1		07/06/18 13:27	106-46-7	
Dichlorodifluoromethane	**<0.31**	ug/L	1.0	0.31	1		07/06/18 13:27	75-71-8	
1,1-Dichloroethane	**<0.14**	ug/L	0.48	0.14	1		07/06/18 13:27	75-34-3	
1,2-Dichloroethane	**<0.11**	ug/L	0.37	0.11	1		07/06/18 13:27	107-06-2	
1,1-Dichloroethene	**<0.18**	ug/L	0.60	0.18	1		07/06/18 13:27	75-35-4	
cis-1,2-Dichloroethene	**<0.073**	ug/L	0.24	0.073	1		07/06/18 13:27	156-59-2	
trans-1,2-Dichloroethene	**<0.21**	ug/L	0.70	0.21	1		07/06/18 13:27	156-60-5	
1,2-Dichloropropane	**<0.20**	ug/L	0.68	0.20	1		07/06/18 13:27	78-87-5	
1,3-Dichloropropane	**<0.093**	ug/L	0.31	0.093	1		07/06/18 13:27	142-28-9	
2,2-Dichloropropane	**<0.32**	ug/L	1.1	0.32	1		07/06/18 13:27	594-20-7	
1,1-Dichloropropene	**<0.16**	ug/L	0.55	0.16	1		07/06/18 13:27	563-58-6	
cis-1,3-Dichloropropene	**<0.12**	ug/L	0.39	0.12	1		07/06/18 13:27	10061-01-5	
trans-1,3-Dichloropropene	**<0.11**	ug/L	0.36	0.11	1		07/06/18 13:27	10061-02-6	
Ethylbenzene	**<0.14**	ug/L	0.45	0.14	1		07/06/18 13:27	100-41-4	
Hexachloro-1,3-butadiene	**<0.31**	ug/L	1.0	0.31	1		07/06/18 13:27	87-68-3	
Isopropylbenzene (Cumene)	**<0.095**	ug/L	0.32	0.095	1		07/06/18 13:27	98-82-8	
p-Isopropyltoluene	**<0.088**	ug/L	0.29	0.088	1		07/06/18 13:27	99-87-6	
Methylene Chloride	**<1.2**	ug/L	3.9	1.2	1		07/06/18 13:27	75-09-2	
Methyl-tert-butyl ether	**<0.097**	ug/L	0.32	0.097	1		07/06/18 13:27	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.4	0.42	1		07/06/18 13:27	91-20-3	
n-Propylbenzene	**<0.11**	ug/L	0.36	0.11	1		07/06/18 13:27	103-65-1	
Styrene	**<0.10**	ug/L	0.35	0.10	1		07/06/18 13:27	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.13**	ug/L	0.44	0.13	1		07/06/18 13:27	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.19**	ug/L	0.63	0.19	1		07/06/18 13:27	79-34-5	
Tetrachloroethene	**<0.12**	ug/L	0.38	0.12	1		07/06/18 13:27	127-18-4	
Toluene	**<0.17**	ug/L	0.57	0.17	1		07/06/18 13:27	108-88-3	
1,2,3-Trichlorobenzene	**<0.078**	ug/L	0.26	0.078	1		07/06/18 13:27	87-61-6	
1,2,4-Trichlorobenzene	**<0.11**	ug/L	0.38	0.11	1		07/06/18 13:27	120-82-1	
1,1,1-Trichloroethane	**<0.13**	ug/L	0.44	0.13	1		07/06/18 13:27	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/L	0.41	0.12	1		07/06/18 13:27	79-00-5	
Trichloroethene	**<0.11**	ug/L	0.36	0.11	1		07/06/18 13:27	79-01-6	
Trichlorofluoromethane	**<0.080**	ug/L	0.27	0.080	1		07/06/18 13:27	75-69-4	
1,2,3-Trichloropropane	**<0.31**	ug/L	1.0	0.31	1		07/06/18 13:27	96-18-4	
1,2,4-Trimethylbenzene	**<0.085**	ug/L	0.28	0.085	1		07/06/18 13:27	95-63-6	
1,3,5-Trimethylbenzene	**<0.093**	ug/L	0.31	0.093	1		07/06/18 13:27	108-67-8	
Vinyl chloride	**<0.074**	ug/L	0.25	0.074	1		07/06/18 13:27	75-01-4	
Xylene (Total)	**<0.24**	ug/L	0.81	0.24	1		07/06/18 13:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	75-125		1		07/06/18 13:27	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		07/06/18 13:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%.	75-125		1		07/06/18 13:27	17060-07-0	

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Sample: KOZAK WELL **Lab ID: 40171741008** Collected: 06/28/18 16:00 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.11**	ug/L	0.37	0.11	1		07/06/18 13:51	71-43-2	
Bromobenzene	**<0.12**	ug/L	0.40	0.12	1		07/06/18 13:51	108-86-1	
Bromochloromethane	**<0.38**	ug/L	1.3	0.38	1		07/06/18 13:51	74-97-5	
Bromodichloromethane	**<0.14**	ug/L	0.48	0.14	1		07/06/18 13:51	75-27-4	
Bromoform	**<1.0**	ug/L	3.5	1.0	1		07/06/18 13:51	75-25-2	
Bromomethane	**<1.1**	ug/L	3.8	1.1	1		07/06/18 13:51	74-83-9	
n-Butylbenzene	**<0.12**	ug/L	0.40	0.12	1		07/06/18 13:51	104-51-8	
sec-Butylbenzene	**<0.12**	ug/L	0.41	0.12	1		07/06/18 13:51	135-98-8	
tert-Butylbenzene	**<0.15**	ug/L	0.49	0.15	1		07/06/18 13:51	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	0.57	0.17	1		07/06/18 13:51	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.38	0.11	1		07/06/18 13:51	108-90-7	
Chloroethane	**<0.32**	ug/L	1.1	0.32	1		07/06/18 13:51	75-00-3	
Chloroform	**<0.46**	ug/L	1.5	0.46	1		07/06/18 13:51	67-66-3	
Chloromethane	**<1.1**	ug/L	3.6	1.1	1		07/06/18 13:51	74-87-3	
2-Chlorotoluene	**<0.078**	ug/L	0.26	0.078	1		07/06/18 13:51	95-49-8	
4-Chlorotoluene	**<0.089**	ug/L	0.30	0.089	1		07/06/18 13:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	3.4	1.0	1		07/06/18 13:51	96-12-8	
Dibromochloromethane	**<0.13**	ug/L	0.45	0.13	1		07/06/18 13:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.14**	ug/L	0.46	0.14	1		07/06/18 13:51	106-93-4	
Dibromomethane	**<0.50**	ug/L	1.7	0.50	1		07/06/18 13:51	74-95-3	
1,2-Dichlorobenzene	**<0.077**	ug/L	0.26	0.077	1		07/06/18 13:51	95-50-1	
1,3-Dichlorobenzene	**<0.074**	ug/L	0.25	0.074	1		07/06/18 13:51	541-73-1	
1,4-Dichlorobenzene	**<0.073**	ug/L	0.24	0.073	1		07/06/18 13:51	106-46-7	
Dichlorodifluoromethane	**<0.31**	ug/L	1.0	0.31	1		07/06/18 13:51	75-71-8	
1,1-Dichloroethane	**<0.14**	ug/L	0.48	0.14	1		07/06/18 13:51	75-34-3	
1,2-Dichloroethane	**<0.11**	ug/L	0.37	0.11	1		07/06/18 13:51	107-06-2	
1,1-Dichloroethene	**<0.18**	ug/L	0.60	0.18	1		07/06/18 13:51	75-35-4	
cis-1,2-Dichloroethene	**<0.073**	ug/L	0.24	0.073	1		07/06/18 13:51	156-59-2	
trans-1,2-Dichloroethene	**<0.21**	ug/L	0.70	0.21	1		07/06/18 13:51	156-60-5	
1,2-Dichloropropane	**<0.20**	ug/L	0.68	0.20	1		07/06/18 13:51	78-87-5	
1,3-Dichloropropane	**<0.093**	ug/L	0.31	0.093	1		07/06/18 13:51	142-28-9	
2,2-Dichloropropane	**<0.32**	ug/L	1.1	0.32	1		07/06/18 13:51	594-20-7	
1,1-Dichloropropene	**<0.16**	ug/L	0.55	0.16	1		07/06/18 13:51	563-58-6	
cis-1,3-Dichloropropene	**<0.12**	ug/L	0.39	0.12	1		07/06/18 13:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.11**	ug/L	0.36	0.11	1		07/06/18 13:51	10061-02-6	
Ethylbenzene	**<0.14**	ug/L	0.45	0.14	1		07/06/18 13:51	100-41-4	
Hexachloro-1,3-butadiene	**<0.31**	ug/L	1.0	0.31	1		07/06/18 13:51	87-68-3	
Isopropylbenzene (Cumene)	**<0.095**	ug/L	0.32	0.095	1		07/06/18 13:51	98-82-8	
p-Isopropyltoluene	**<0.088**	ug/L	0.29	0.088	1		07/06/18 13:51	99-87-6	
Methylene Chloride	**<1.2**	ug/L	3.9	1.2	1		07/06/18 13:51	75-09-2	
Methyl-tert-butyl ether	**<0.097**	ug/L	0.32	0.097	1		07/06/18 13:51	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.4	0.42	1		07/06/18 13:51	91-20-3	
n-Propylbenzene	**<0.11**	ug/L	0.36	0.11	1		07/06/18 13:51	103-65-1	
Styrene	**<0.10**	ug/L	0.35	0.10	1		07/06/18 13:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.13**	ug/L	0.44	0.13	1		07/06/18 13:51	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.19**	ug/L	0.63	0.19	1		07/06/18 13:51	79-34-5	

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Sample: KOZAK WELL **Lab ID: 40171741008** Collected: 06/28/18 16:00 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Tetrachloroethene	**<0.12**	ug/L	0.38	0.12	1		07/06/18 13:51	127-18-4	
Toluene	**<0.17**	ug/L	0.57	0.17	1		07/06/18 13:51	108-88-3	
1,2,3-Trichlorobenzene	**<0.078**	ug/L	0.26	0.078	1		07/06/18 13:51	87-61-6	
1,2,4-Trichlorobenzene	**<0.11**	ug/L	0.38	0.11	1		07/06/18 13:51	120-82-1	
1,1,1-Trichloroethane	**<0.13**	ug/L	0.44	0.13	1		07/06/18 13:51	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/L	0.41	0.12	1		07/06/18 13:51	79-00-5	
Trichloroethene	**<0.11**	ug/L	0.36	0.11	1		07/06/18 13:51	79-01-6	
Trichlorofluoromethane	**<0.080**	ug/L	0.27	0.080	1		07/06/18 13:51	75-69-4	
1,2,3-Trichloropropane	**<0.31**	ug/L	1.0	0.31	1		07/06/18 13:51	96-18-4	
1,2,4-Trimethylbenzene	**<0.085**	ug/L	0.28	0.085	1		07/06/18 13:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.093**	ug/L	0.31	0.093	1		07/06/18 13:51	108-67-8	
Vinyl chloride	**<0.074**	ug/L	0.25	0.074	1		07/06/18 13:51	75-01-4	
Xylene (Total)	**<0.24**	ug/L	0.81	0.24	1		07/06/18 13:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	75-125		1		07/06/18 13:51	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		07/06/18 13:51	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%.	75-125		1		07/06/18 13:51	17060-07-0	

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

QC Batch: 293420 | Analysis Method: EPA 6010
QC Batch Method: EPA 6010 | Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40171741001, 40171741002, 40171741003, 40171741004, 40171741005, 40171741006

METHOD BLANK: 1716378 | Matrix: Water
Associated Lab Samples: 40171741001, 40171741002, 40171741003, 40171741004, 40171741005, 40171741006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	07/02/18 12:31	
Iron, Dissolved	ug/L	<15.5	100	07/02/18 12:31	
Lead, Dissolved	ug/L	<4.3	13.0	07/02/18 12:31	

LABORATORY CONTROL SAMPLE: 1716379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	505	101	80-120	
Iron, Dissolved	ug/L	5000	5070	101	80-120	
Lead, Dissolved	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1716380 1716381

Parameter	Units	40171226002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	<1.3	500	500	517	478	103	96	75-125	8	20	
Iron, Dissolved	ug/L	5560	5000	5000	10600	10200	100	92	75-125	4	20	
Lead, Dissolved	ug/L	<4.3	500	500	514	469	102	93	75-125	9	20	

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

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

QC Batch: 548928 | Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 | Analysis Description: 524.2 MSV
Associated Lab Samples: 40171741007, 40171741008

METHOD BLANK: 2983972 | Matrix: Water
Associated Lab Samples: 40171741007, 40171741008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.13	0.44	07/06/18 11:43	
1,1,1-Trichloroethane	ug/L	<0.13	0.44	07/06/18 11:43	
1,1,2,2-Tetrachloroethane	ug/L	<0.19	0.63	07/06/18 11:43	
1,1,2-Trichloroethane	ug/L	<0.12	0.41	07/06/18 11:43	
1,1-Dichloroethane	ug/L	<0.14	0.48	07/06/18 11:43	
1,1-Dichloroethene	ug/L	<0.18	0.60	07/06/18 11:43	
1,1-Dichloropropene	ug/L	<0.16	0.55	07/06/18 11:43	
1,2,3-Trichlorobenzene	ug/L	<0.078	0.26	07/06/18 11:43	
1,2,3-Trichloropropane	ug/L	<0.31	1.0	07/06/18 11:43	
1,2,4-Trichlorobenzene	ug/L	<0.11	0.38	07/06/18 11:43	
1,2,4-Trimethylbenzene	ug/L	<0.085	0.28	07/06/18 11:43	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	3.4	07/06/18 11:43	N2
1,2-Dibromoethane (EDB)	ug/L	<0.14	0.46	07/06/18 11:43	N2
1,2-Dichlorobenzene	ug/L	<0.077	0.26	07/06/18 11:43	
1,2-Dichloroethane	ug/L	<0.11	0.37	07/06/18 11:43	
1,2-Dichloropropane	ug/L	<0.20	0.68	07/06/18 11:43	
1,3,5-Trimethylbenzene	ug/L	<0.093	0.31	07/06/18 11:43	N2
1,3-Dichlorobenzene	ug/L	<0.074	0.25	07/06/18 11:43	
1,3-Dichloropropane	ug/L	<0.093	0.31	07/06/18 11:43	N2
1,4-Dichlorobenzene	ug/L	<0.073	0.24	07/06/18 11:43	
2,2-Dichloropropane	ug/L	<0.32	1.1	07/06/18 11:43	
2-Chlorotoluene	ug/L	<0.078	0.26	07/06/18 11:43	
4-Chlorotoluene	ug/L	<0.089	0.30	07/06/18 11:43	
Benzene	ug/L	<0.11	0.37	07/06/18 11:43	
Bromobenzene	ug/L	<0.12	0.40	07/06/18 11:43	
Bromochloromethane	ug/L	<0.38	1.3	07/06/18 11:43	
Bromodichloromethane	ug/L	<0.14	0.48	07/06/18 11:43	
Bromoform	ug/L	<1.0	3.5	07/06/18 11:43	
Bromomethane	ug/L	<1.1	3.8	07/06/18 11:43	
Carbon tetrachloride	ug/L	<0.17	0.57	07/06/18 11:43	
Chlorobenzene	ug/L	<0.11	0.38	07/06/18 11:43	
Chloroethane	ug/L	<0.32	1.1	07/06/18 11:43	
Chloroform	ug/L	<0.46	1.5	07/06/18 11:43	
Chloromethane	ug/L	<1.1	3.6	07/06/18 11:43	
cis-1,2-Dichloroethene	ug/L	<0.073	0.24	07/06/18 11:43	
cis-1,3-Dichloropropene	ug/L	<0.12	0.39	07/06/18 11:43	
Dibromochloromethane	ug/L	<0.13	0.45	07/06/18 11:43	
Dibromomethane	ug/L	<0.50	1.7	07/06/18 11:43	
Dichlorodifluoromethane	ug/L	<0.31	1.0	07/06/18 11:43	
Ethylbenzene	ug/L	<0.14	0.45	07/06/18 11:43	
Hexachloro-1,3-butadiene	ug/L	<0.31	1.0	07/06/18 11:43	

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

METHOD BLANK: 2983972 Matrix: Water
Associated Lab Samples: 40171741007, 40171741008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.095	0.32	07/06/18 11:43	
Methyl-tert-butyl ether	ug/L	<0.097	0.32	07/06/18 11:43	
Methylene Chloride	ug/L	<1.2	3.9	07/06/18 11:43	
n-Butylbenzene	ug/L	<0.12	0.40	07/06/18 11:43	
n-Propylbenzene	ug/L	<0.11	0.36	07/06/18 11:43	
Naphthalene	ug/L	<0.42	1.4	07/06/18 11:43	
p-Isopropyltoluene	ug/L	<0.088	0.29	07/06/18 11:43	N2
sec-Butylbenzene	ug/L	<0.12	0.41	07/06/18 11:43	
Styrene	ug/L	<0.10	0.35	07/06/18 11:43	
tert-Butylbenzene	ug/L	<0.15	0.49	07/06/18 11:43	
Tetrachloroethene	ug/L	<0.12	0.38	07/06/18 11:43	
Toluene	ug/L	<0.17	0.57	07/06/18 11:43	
trans-1,2-Dichloroethene	ug/L	<0.21	0.70	07/06/18 11:43	
trans-1,3-Dichloropropene	ug/L	<0.11	0.36	07/06/18 11:43	
Trichloroethene	ug/L	<0.11	0.36	07/06/18 11:43	
Trichlorofluoromethane	ug/L	<0.080	0.27	07/06/18 11:43	
Vinyl chloride	ug/L	<0.074	0.25	07/06/18 11:43	
Xylene (Total)	ug/L	<0.24	0.81	07/06/18 11:43	
1,2-Dichloroethane-d4 (S)	%.	106	75-125	07/06/18 11:43	
4-Bromofluorobenzene (S)	%.	99	75-125	07/06/18 11:43	
Toluene-d8 (S)	%.	100	75-125	07/06/18 11:43	

LABORATORY CONTROL SAMPLE: 2983975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	20	21.4	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.9	104	70-130	
1,1,2-Trichloroethane	ug/L	20	20.8	104	70-130	
1,1-Dichloroethane	ug/L	20	22.0	110	70-130	
1,1-Dichloroethene	ug/L	20	21.3	106	70-130	
1,1-Dichloropropene	ug/L	20	21.6	108	70-130	
1,2,3-Trichlorobenzene	ug/L	20	21.4	107	70-130	
1,2,3-Trichloropropane	ug/L	20	21.4	107	70-130	
1,2,4-Trichlorobenzene	ug/L	20	20.4	102	70-130	
1,2,4-Trimethylbenzene	ug/L	20	20.3	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.7	87	70-130	N2
1,2-Dibromoethane (EDB)	ug/L	20	21.6	108	70-130	N2
1,2-Dichlorobenzene	ug/L	20	20.3	102	70-130	
1,2-Dichloroethane	ug/L	20	21.6	108	70-130	
1,2-Dichloropropane	ug/L	20	21.7	109	70-130	
1,3,5-Trimethylbenzene	ug/L	20	20.5	103	70-130	N2
1,3-Dichlorobenzene	ug/L	20	20.9	105	70-130	
1,3-Dichloropropane	ug/L	20	21.3	106	70-130	N2

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

LABORATORY CONTROL SAMPLE: 2983975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	20	21.2	106	70-130	
2,2-Dichloropropane	ug/L	20	20.1	100	70-130	
2-Chlorotoluene	ug/L	20	19.8	99	70-130	
4-Chlorotoluene	ug/L	20	20.5	102	70-130	
Benzene	ug/L	20	21.9	109	70-130	
Bromobenzene	ug/L	20	20.3	102	70-130	
Bromochloromethane	ug/L	20	21.8	109	70-130	
Bromodichloromethane	ug/L	20	20.2	101	70-130	
Bromoform	ug/L	20	15.8	79	70-130	
Bromomethane	ug/L	20	18.5	93	70-130	
Carbon tetrachloride	ug/L	20	19.7	99	70-130	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	24.1	120	70-130	
Chloroform	ug/L	20	22.0	110	70-130	
Chloromethane	ug/L	20	21.2	106	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	70-130	
Dibromochloromethane	ug/L	20	18.8	94	70-130	
Dibromomethane	ug/L	20	20.8	104	70-130	
Dichlorodifluoromethane	ug/L	20	22.0	110	70-130	
Ethylbenzene	ug/L	20	20.9	105	70-130	
Hexachloro-1,3-butadiene	ug/L	20	22.1	110	70-130	
Isopropylbenzene (Cumene)	ug/L	20	20.7	103	70-130	
Methyl-tert-butyl ether	ug/L	20	20.6	103	70-130	
Methylene Chloride	ug/L	20	21.2	106	70-130	
n-Butylbenzene	ug/L	20	21.9	109	70-130	
n-Propylbenzene	ug/L	20	20.7	103	70-130	
Naphthalene	ug/L	20	19.3	97	70-130	
p-Isopropyltoluene	ug/L	20	21.1	105	70-130	N2
sec-Butylbenzene	ug/L	20	20.8	104	70-130	
Styrene	ug/L	20	21.1	106	70-130	
tert-Butylbenzene	ug/L	20	20.3	101	70-130	
Tetrachloroethene	ug/L	20	21.3	107	70-130	
Toluene	ug/L	20	20.5	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.3	101	70-130	
Trichloroethene	ug/L	20	21.7	109	70-130	
Trichlorofluoromethane	ug/L	20	22.3	111	70-130	
Vinyl chloride	ug/L	20	22.5	112	70-130	
Xylene (Total)	ug/L	60	63.0	105	70-130	
1,2-Dichloroethane-d4 (S)	%.			105	75-125	
4-Bromofluorobenzene (S)	%.			95	75-125	
Toluene-d8 (S)	%.			99	75-125	

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985633 2985634

Parameter	Units	40171741099 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.13	20	20	19.9	17.4	100	87	70-130	13	20	
1,1,1-Trichloroethane	ug/L	<0.13	20	20	22.3	19.8	112	99	70-130	12	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.19	20	20	22.0	19.3	110	96	70-130	13	20	
1,1,2-Trichloroethane	ug/L	<0.12	20	20	20.3	18.2	102	91	70-130	11	20	
1,1-Dichloroethane	ug/L	<0.14	20	20	22.1	19.6	111	98	70-130	12	20	
1,1-Dichloroethene	ug/L	<0.18	20	20	23.8	21.3	119	107	70-130	11	20	
1,1-Dichloropropene	ug/L	<0.16	20	20	23.1	20.3	115	102	70-130	13	20	
1,2,3-Trichlorobenzene	ug/L	<0.078	20	20	22.6	20.9	113	105	70-130	8	20	
1,2,3-Trichloropropane	ug/L	<0.31	20	20	20.7	18.6	103	93	70-130	11	20	
1,2,4-Trichlorobenzene	ug/L	<0.11	20	20	21.6	18.7	108	93	70-130	14	20	
1,2,4-Trimethylbenzene	ug/L	<0.085	20	20	20.6	18.2	103	91	70-130	13	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	44.0	39.2	88	78	70-130	11	20	N2
1,2-Dibromoethane (EDB)	ug/L	<0.14	20	20	21.9	19.3	110	97	70-130	12	20	N2
1,2-Dichlorobenzene	ug/L	<0.077	20	20	20.5	18.3	103	91	70-130	12	20	
1,2-Dichloroethane	ug/L	<0.11	20	20	21.1	18.9	105	94	70-130	11	20	
1,2-Dichloropropane	ug/L	<0.20	20	20	21.9	19.4	109	97	70-130	12	20	
1,3,5-Trimethylbenzene	ug/L	<0.093	20	20	21.1	18.4	105	92	70-130	14	20	N2
1,3-Dichlorobenzene	ug/L	<0.074	20	20	21.1	19.0	105	95	70-130	10	20	
1,3-Dichloropropane	ug/L	<0.093	20	20	21.4	18.9	107	94	70-130	13	20	N2
1,4-Dichlorobenzene	ug/L	<0.073	20	20	20.8	18.9	104	94	70-130	10	20	
2,2-Dichloropropane	ug/L	<0.32	20	20	21.4	19.0	107	95	70-130	12	20	
2-Chlorotoluene	ug/L	<0.078	20	20	19.5	17.3	98	87	70-130	12	20	
4-Chlorotoluene	ug/L	<0.089	20	20	20.5	18.3	102	91	70-130	11	20	
Benzene	ug/L	<0.11	20	20	22.4	19.7	112	99	70-130	13	20	
Bromobenzene	ug/L	<0.12	20	20	21.0	17.9	105	89	70-130	16	20	
Bromochloromethane	ug/L	<0.38	20	20	21.3	18.9	107	94	70-130	12	20	
Bromodichloromethane	ug/L	<0.14	20	20	20.0	17.4	100	87	70-130	14	20	
Bromoform	ug/L	<1.0	20	20	16.4	14.1	82	71	70-130	15	20	
Bromomethane	ug/L	<1.1	20	20	17.4	17.9	87	90	70-130	3	20	
Carbon tetrachloride	ug/L	<0.17	20	20	21.0	18.6	105	93	70-130	12	20	
Chlorobenzene	ug/L	<0.11	20	20	20.6	18.5	103	93	70-130	11	20	
Chloroethane	ug/L	<0.32	20	20	19.8	20.8	99	104	70-130	5	20	
Chloroform	ug/L	<0.46	20	20	21.5	18.8	107	94	70-130	13	20	
Chloromethane	ug/L	<1.1	20	20	18.0	18.8	90	94	70-130	4	20	
cis-1,2-Dichloroethene	ug/L	<0.073	20	20	21.8	19.6	109	98	70-130	10	20	
cis-1,3-Dichloropropene	ug/L	<0.12	20	20	19.2	16.6	96	83	70-130	15	20	
Dibromochloromethane	ug/L	<0.13	20	20	18.9	16.9	95	84	70-130	12	20	
Dibromomethane	ug/L	<0.50	20	20	20.6	17.8	103	89	70-130	15	20	
Dichlorodifluoromethane	ug/L	<0.31	20	20	19.8	20.5	99	102	70-130	3	20	
Ethylbenzene	ug/L	<0.14	20	20	20.6	18.4	103	92	70-130	11	20	
Hexachloro-1,3-butadiene	ug/L	<0.31	20	20	25.6	21.6	128	108	70-130	17	20	
Isopropylbenzene (Cumene)	ug/L	<0.095	20	20	20.9	18.8	104	94	70-130	11	20	
Methyl-tert-butyl ether	ug/L	<0.097	20	20	20.5	18.3	103	92	70-130	11	20	
Methylene Chloride	ug/L	<1.2	20	20	20.9	18.6	101	89	70-130	12	20	
n-Butylbenzene	ug/L	<0.12	20	20	24.2	20.6	121	103	70-130	16	20	

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985633 2985634

Parameter	Units	40171741099 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
n-Propylbenzene	ug/L	<0.11	20	20	20.8	18.4	104	92	70-130	12	20	
Naphthalene	ug/L	<0.42	20	20	20.0	18.3	100	92	70-130	9	20	
p-Isopropyltoluene	ug/L	<0.088	20	20	22.1	19.1	111	96	70-130	14	20	N2
sec-Butylbenzene	ug/L	<0.12	20	20	21.8	19.1	109	96	70-130	13	20	
Styrene	ug/L	<0.10	20	20	21.0	18.6	105	93	70-130	12	20	
tert-Butylbenzene	ug/L	<0.15	20	20	21.1	18.2	105	91	70-130	14	20	
Tetrachloroethene	ug/L	<0.12	20	20	21.9	19.5	109	97	70-130	11	20	
Toluene	ug/L	<0.17	20	20	20.9	18.1	104	91	70-130	14	20	
trans-1,2-Dichloroethene	ug/L	<0.21	20	20	23.2	20.4	116	102	70-130	13	20	
trans-1,3-Dichloropropene	ug/L	<0.11	20	20	20.9	17.6	105	88	70-130	17	20	
Trichloroethene	ug/L	<0.11	20	20	22.3	19.6	112	98	70-130	13	20	
Trichlorofluoromethane	ug/L	<0.080	20	20	19.5	20.2	98	101	70-130	3	20	
Vinyl chloride	ug/L	<0.074	20	20	19.9	20.7	100	104	70-130	4	20	
Xylene (Total)	ug/L	<0.24	60	60	62.0	55.8	103	93	70-130	11	20	
1,2-Dichloroethane-d4 (S)	%.						103	105	75-125			
4-Bromofluorobenzene (S)	%.						98	97	75-125			
Toluene-d8 (S)	%.						101	100	75-125			

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

QC Batch: 293357 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40171741001, 40171741002, 40171741003, 40171741004, 40171741006

METHOD BLANK: 1716195 Matrix: Water
Associated Lab Samples: 40171741001, 40171741002, 40171741003, 40171741004, 40171741006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	07/06/18 14:50	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	07/06/18 14:50	
1,2-Dichloroethane	ug/L	<0.17	1.0	07/06/18 14:50	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	07/06/18 14:50	
Benzene	ug/L	<0.50	1.0	07/06/18 14:50	
Ethylbenzene	ug/L	<0.50	1.0	07/06/18 14:50	
m&p-Xylene	ug/L	<1.0	2.0	07/06/18 14:50	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	07/06/18 14:50	
Naphthalene	ug/L	<2.5	5.0	07/06/18 14:50	
o-Xylene	ug/L	<0.50	1.0	07/06/18 14:50	
Toluene	ug/L	<0.50	1.0	07/06/18 14:50	
Xylene (Total)	ug/L	<1.5	3.0	07/06/18 14:50	
4-Bromofluorobenzene (S)	%	96	70-130	07/06/18 14:50	
Dibromofluoromethane (S)	%	99	70-130	07/06/18 14:50	
Toluene-d8 (S)	%	98	70-130	07/06/18 14:50	

LABORATORY CONTROL SAMPLE: 1716196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	70-130	
1,2-Dichloroethane	ug/L	50	49.4	99	73-134	
Benzene	ug/L	50	52.1	104	69-137	
Ethylbenzene	ug/L	50	53.7	107	86-127	
m&p-Xylene	ug/L	100	108	108	70-131	
Methyl-tert-butyl ether	ug/L	50	35.3	71	65-136	
o-Xylene	ug/L	50	55.4	111	70-130	
Toluene	ug/L	50	52.2	104	84-124	
Xylene (Total)	ug/L	150	163	109	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1716857 1716858

Parameter	Units	40171733001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.2	52.1	100	104	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	47.7	47.5	95	95	71-137	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1716857 1716858

Parameter	Units	40171733001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	50.9	50.5	102	101	66-143	1	20	
Ethylbenzene	ug/L	<0.50	50	50	52.6	53.0	105	106	81-136	1	20	
m&p-Xylene	ug/L	<1.0	100	100	104	106	104	106	70-135	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	34.0	34.4	68	69	58-142	1	23	
o-Xylene	ug/L	<0.50	50	50	53.2	54.7	106	109	70-132	3	20	
Toluene	ug/L	<0.50	50	50	50.8	51.7	102	103	81-130	2	20	
Xylene (Total)	ug/L	<1.5	150	150	157	161	105	107	70-134	2	20	
4-Bromofluorobenzene (S)	%						103	104	70-130			
Dibromofluoromethane (S)	%						101	100	70-130			
Toluene-d8 (S)	%						96	96	70-130			

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

QC Batch: 293910 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40171741005

METHOD BLANK: 1718888 | Matrix: Water
Associated Lab Samples: 40171741005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	07/09/18 16:27	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	07/09/18 16:27	
1,2-Dichloroethane	ug/L	<0.17	1.0	07/09/18 16:27	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	07/09/18 16:27	
Benzene	ug/L	<0.50	1.0	07/09/18 16:27	
Ethylbenzene	ug/L	<0.50	1.0	07/09/18 16:27	
m&p-Xylene	ug/L	<1.0	2.0	07/09/18 16:27	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	07/09/18 16:27	
Naphthalene	ug/L	<2.5	5.0	07/09/18 16:27	
o-Xylene	ug/L	<0.50	1.0	07/09/18 16:27	
Toluene	ug/L	<0.50	1.0	07/09/18 16:27	
Xylene (Total)	ug/L	<1.5	3.0	07/09/18 16:27	
4-Bromofluorobenzene (S)	%	79	70-130	07/09/18 16:27	
Dibromofluoromethane (S)	%	117	70-130	07/09/18 16:27	
Toluene-d8 (S)	%	103	70-130	07/09/18 16:27	

LABORATORY CONTROL SAMPLE: 1718889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	46.1	92	70-130	
1,2-Dichloroethane	ug/L	50	51.9	104	73-134	
Benzene	ug/L	50	50.4	101	69-137	
Ethylbenzene	ug/L	50	48.3	97	86-127	
m&p-Xylene	ug/L	100	97.5	98	70-131	
Methyl-tert-butyl ether	ug/L	50	51.1	102	65-136	
o-Xylene	ug/L	50	48.5	97	70-130	
Toluene	ug/L	50	48.6	97	84-124	
Xylene (Total)	ug/L	150	146	97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			122	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1719072 1719073

Parameter	Units	40171916012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	45.3	47.1	91	94	70-130	4	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	48.7	52.9	97	106	71-137	8	20	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1719072 1719073

Parameter	Units	40171916012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	50	50	49.4	51.2	99	102	66-143	4	20	
Ethylbenzene	ug/L	<1.0	50	50	45.7	48.5	91	97	81-136	6	20	
m&p-Xylene	ug/L	<2.0	100	100	94.1	100	94	100	70-135	6	20	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	50.1	52.6	100	105	58-142	5	23	
o-Xylene	ug/L	<1.0	50	50	46.7	48.0	93	96	70-132	3	20	
Toluene	ug/L	<1.0	50	50	46.5	46.6	93	93	81-130	0	20	
Xylene (Total)	ug/L	<3.0	150	150	141	148	94	99	70-134	5	20	
4-Bromofluorobenzene (S)	%						102	97	70-130			
Dibromofluoromethane (S)	%						117	119	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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QUALITY CONTROL DATA

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

QC Batch: 293314 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40171741001, 40171741002, 40171741003, 40171741004, 40171741005, 40171741006

METHOD BLANK: 1715261 | Matrix: Water
Associated Lab Samples: 40171741001, 40171741002, 40171741003, 40171741004, 40171741005, 40171741006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.075	0.22	06/29/18 11:46	
Sulfate	mg/L	<1.0	3.0	06/29/18 11:46	

LABORATORY CONTROL SAMPLE: 1715262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.5	1.4	96	90-110	
Sulfate	mg/L	20	18.7	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1715263 1715264

Parameter	Units	40171741006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.23	1.5	1.5	1.8	1.8	106	106	90-110	0	15	
Sulfate	mg/L	22.5	20	20	44.0	44.0	107	107	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1715265 1715266

Parameter	Units	40171742011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<1.1	7.5	7.5	8.1	7.9	107	106	90-110	1	15	
Sulfate	mg/L	<15.0	100	100	108	106	106	104	90-110	2	15	

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REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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Green Bay, WI 54302
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40171741

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40171741001	**MW-18**	EPA 6010	293420		
40171741002	**MW-18 @ 35-40**	EPA 6010	293420		
40171741003	**MW-19**	EPA 6010	293420		
40171741004	**MW-19 @ 31-36**	EPA 6010	293420		
40171741005	**MW-22**	EPA 6010	293420		
40171741006	**MW-22 @ 35-40**	EPA 6010	293420		
40171741007	**REPLACEMENT WELL**	EPA 524.2	548928		
40171741008	**KOZAK WELL**	EPA 524.2	548928		
40171741001	**MW-18**	EPA 8260	293357		
40171741002	**MW-18 @ 35-40**	EPA 8260	293357		
40171741003	**MW-19**	EPA 8260	293357		
40171741004	**MW-19 @ 31-36**	EPA 8260	293357		
40171741005	**MW-22**	EPA 8260	293910		
40171741006	**MW-22 @ 35-40**	EPA 8260	293357		
40171741001	**MW-18**	EPA 300.0	293314		
40171741002	**MW-18 @ 35-40**	EPA 300.0	293314		
40171741003	**MW-19**	EPA 300.0	293314		
40171741004	**MW-19 @ 31-36**	EPA 300.0	293314		
40171741005	**MW-22**	EPA 300.0	293314		
40171741006	**MW-22 @ 35-40**	EPA 300.0	293314		
40171741001	**MW-18**	EPA 300.0	293314		
40171741002	**MW-18 @ 35-40**	EPA 300.0	293314		
40171741003	**MW-19**	EPA 300.0	293314		
40171741004	**MW-19 @ 31-36**	EPA 300.0	293314		
40171741005	**MW-22**	EPA 300.0	293314		
40171741006	**MW-22 @ 35-40**	EPA 300.0	293314		

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

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CHAIN OF CUSTODY

40171741

(Please Print Clearly)	
Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Dave Lawson
Phone:	(715) 675-9784
Project Number:	903AXUC
Project Name:	Tower Standard
Project State:	WI
Sampled By (Print):	Jed Kosch
Sampled By (Sign):	
PO #:	Regulatory Program:

*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:	Dave Lawson
Mail To Company:	REI
Mail To Address:	DLawson@REIEngineering.com
Invoice To Contact:	SAA
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	PUDCEN	1,2 DCA	EDB	Sulfate	Nitrate-N	Dissolved Lead, Iron, Cadmium	DW VOCs (524.2)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
FILTERED? (YES/NO)					N	N	N	N	N	Y	N			
PRESERVATION (CODE)*					B	B	B	A	A	D	J			
001	MW-18	6/28/18	9:31	GW										
002	MW-18 @ 35-40		10:02											
003	MW-19		10:56											
004	MW-19 @ 31-36		11:25											
005	MW-22		12:05											
006	MW-22 @ 35-40		12:42											
007	Replacement Well		2:35	DW							X			
008	Kozak Well		4:00	DW							X			
~~009~~	JL 6/29/18													

Analyses Requested

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:
[signature]	6/28/18 5:30	~~WALTCO~~ JM	6/29/18
Waltco	6/29/18 9:05	[signature]	PACE 6/29/18 9:05

PACE Project No. 40171741

Receipt Temp = ROI °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: REJ

Project # 4017741

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

Initial when completed: JM

Date/ Time:

Lab Lot# of pH paper: 10050781

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											1		1					3													X		2.5 / 5 / 10
002											1		1					3													X		2.5 / 5 / 10
003											1		1					3													X		2.5 / 5 / 10
004											1		1					3													X		2.5 / 5 / 10
005											1		1					3													X		2.5 / 5 / 10
006											1		1					3													X		2.5 / 5 / 10
007															3																		2.5 / 5 / 10
008															3																		2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

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

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#: 40171741**

40171741

Client Name: R&E

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☒ Waltco 9:05a
☐ Client ☐ Pace Other:

Tracking #: 1761955-1

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 cardboard, paper

Thermometer Used SR - NA **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 20.5 /Corr:

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

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

Person examining contents:
Date: 6/28/18
Initials: JM

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☒No	Date/Time:
Short Hold Time Analysis (<72hr):	☒Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume:		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.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:** 6-29-18

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

August 30, 2018

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

RE: Project: 903AXUC TOWER STANDARD
Pace Project No.: 40174730

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 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

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CERTIFICATIONS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40174730

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

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SAMPLE SUMMARY

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40174730

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40174730001	**ORIGINAL WELL**	Water	08/27/18 13:55	08/28/18 09:10
40174730002	**REPLACEMENT WELL**	Water	08/27/18 13:50	08/28/18 09:10

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40174730

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40174730001	**ORIGINAL WELL**	SM 9223	DEY	2
40174730002	**REPLACEMENT WELL**	SM 9223	DEY	2

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ANALYTICAL RESULTS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40174730

Sample: ORIGINAL WELL **Lab ID: 40174730001** Collected: 08/27/18 13:55 Received: 08/28/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
MBIO Total Coliform	Analytical Method: SM 9223 Preparation Method: SM 9223								
Total Coliforms	**Absent**				1	08/28/18 10:59	08/28/18 11:00		
E.coli	**Absent**				1	08/28/18 10:59	08/28/18 11:00		

Sample: REPLACEMENT WELL **Lab ID: 40174730002** Collected: 08/27/18 13:50 Received: 08/28/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
MBIO Total Coliform	Analytical Method: SM 9223 Preparation Method: SM 9223								
Total Coliforms	**Absent**				1	08/28/18 11:00	08/28/18 11:00		
E.coli	**Absent**				1	08/28/18 11:00	08/28/18 11:00		

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QUALIFIERS

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40174730

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 903AXUC TOWER STANDARD
Pace Project No.: 40174730

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40174730001	**ORIGINAL WELL**	SM 9223	298694	SM 9223	298695
40174730002	**REPLACEMENT WELL**	SM 9223	298694	SM 9223	298695

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

40174730

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Dave Larsen
Phone:	715-675-9784
Project Number:	903aXUC
Project Name:	Tower Standard
Project State:	WI
Sampled By (Print):	Brian J. Bailey
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

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

Quote #:	
Mail To Contact:	Dave Larsen
Mail To Company:	REI
Mail To Address:	~~[illegible]~~ dlarsen@reiengineering.co
Invoice To Contact:	SAA
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: Total Coliform	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Original Well	8/27/18	1:55P	DW	X			
002	Replacement Well	8/27/18	1:50P	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:
[signature]	8/27/18 4:00P		
Waltco	8/28/18 0910	DSams pace	8/28/18 0910

PACE Project No. 40174730

Receipt Temp = [illegible] °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

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Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: REI

Project # 40174730

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/ Time:

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

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

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

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#: 40174730

40174730

Client Name: REI

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

Tracking #: 185793-1

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: R02 /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: 8/28/18
Initials: NS

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:		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.
-Includes date/time/ID/Analysis	Matrix: W	
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 8-28-18

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November 12, 2018

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

RE: Project: 903 TOWER STANDARD
Pace Project No.: 40178536

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on October 27, 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

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CERTIFICATIONS

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

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

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SAMPLE SUMMARY

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178536001	**MW18**	Water	10/25/18 13:30	10/27/18 08:15
40178536002	**MW19**	Water	10/25/18 13:55	10/27/18 08:15
40178536003	**MW19@31-36**	Water	10/25/18 14:28	10/27/18 08:15
40178536004	**MW21**	Water	10/25/18 16:40	10/27/18 08:15
40178536005	**MW22**	Water	10/25/18 15:15	10/27/18 08:15
40178536006	**MW22@35-40**	Water	10/25/18 15:55	10/27/18 08:15

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SAMPLE ANALYTE COUNT

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40178536001	**MW18**	EPA 6010	TXW	3
		EPA 8260	LAP	15
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40178536002	**MW19**	EPA 6010	TXW	3
		EPA 8260	LAP	15
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40178536003	**MW19@31-36**	EPA 6010	TXW	3
		EPA 8260	LAP	15
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40178536004	**MW21**	EPA 6010	TXW	3
		EPA 8260	LAP	15
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40178536005	**MW22**	EPA 6010	TXW	3
		EPA 8260	LAP	15
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40178536006	**MW22@35-40**	EPA 6010	TXW	3
		EPA 8260	LAP	15
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

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ANALYTICAL RESULTS

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

Sample: MW18 **Lab ID: 40178536001** Collected: 10/25/18 13:30 Received: 10/27/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		11/09/18 22:55	7440-43-9	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		11/09/18 22:55	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		11/09/18 22:55	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/30/18 11:28	71-43-2	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/30/18 11:28	106-93-4	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/30/18 11:28	107-06-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/30/18 11:28	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/30/18 11:28	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/30/18 11:28	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/30/18 11:28	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/30/18 11:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/30/18 11:28	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/30/18 11:28	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/30/18 11:28	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/30/18 11:28	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		10/30/18 11:28	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		10/30/18 11:28	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		10/30/18 11:28	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**7.9**	mg/L	3.0	1.0	1		10/27/18 11:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		11/06/18 13:10		

Sample: MW19 **Lab ID: 40178536002** Collected: 10/25/18 13:55 Received: 10/27/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		11/09/18 23:02	7440-43-9	
Iron, Dissolved	**631**	ug/L	118	35.4	1		11/09/18 23:02	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		11/09/18 23:02	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/30/18 11:50	71-43-2	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/30/18 11:50	106-93-4	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/30/18 11:50	107-06-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/30/18 11:50	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/30/18 11:50	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/30/18 11:50	91-20-3	

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ANALYTICAL RESULTS

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

Sample: MW19 **Lab ID: 40178536002** Collected: 10/25/18 13:55 Received: 10/27/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/30/18 11:50	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/30/18 11:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/30/18 11:50	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/30/18 11:50	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/30/18 11:50	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/30/18 11:50	95-47-6	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		1		10/30/18 11:50	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/30/18 11:50	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		10/30/18 11:50	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5.0**	mg/L	3.0	1.0	1		10/27/18 11:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		11/06/18 13:11		

Sample: MW19@31-36 **Lab ID: 40178536003** Collected: 10/25/18 14:28 Received: 10/27/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		11/09/18 23:05	7440-43-9	
Iron, Dissolved	**28700**	ug/L	118	35.4	1		11/09/18 23:05	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		11/09/18 23:05	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**363**	ug/L	25.0	6.2	25		10/30/18 10:21	71-43-2	
1,2-Dibromoethane (EDB)	**<20.7**	ug/L	69.1	20.7	25		10/30/18 10:21	106-93-4	
1,2-Dichloroethane	**<7.0**	ug/L	25.0	7.0	25		10/30/18 10:21	107-06-2	
Ethylbenzene	**1120**	ug/L	25.0	5.5	25		10/30/18 10:21	100-41-4	
Methyl-tert-butyl ether	**<31.1**	ug/L	104	31.1	25		10/30/18 10:21	1634-04-4	
Naphthalene	**188**	ug/L	125	29.4	25		10/30/18 10:21	91-20-3	
Toluene	**498**	ug/L	125	4.3	25		10/30/18 10:21	108-88-3	
1,2,4-Trimethylbenzene	**752**	ug/L	70.0	21.0	25		10/30/18 10:21	95-63-6	
1,3,5-Trimethylbenzene	**227**	ug/L	72.8	21.8	25		10/30/18 10:21	108-67-8	
Xylene (Total)	**3350**	ug/L	75.0	37.5	25		10/30/18 10:21	1330-20-7	
m&p-Xylene	**2960**	ug/L	50.0	11.6	25		10/30/18 10:21	179601-23-1	
o-Xylene	**386**	ug/L	25.0	6.5	25		10/30/18 10:21	95-47-6	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		25		10/30/18 10:21	1868-53-7	
Toluene-d8 (S)	96	%	70-130		25		10/30/18 10:21	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		25		10/30/18 10:21	460-00-4	

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ANALYTICAL RESULTS

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

Sample: MW19@31-36 **Lab ID: 40178536003** Collected: 10/25/18 14:28 Received: 10/27/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**<5.0**	mg/L	15.0	5.0	5		10/27/18 12:07	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		11/06/18 13:12		

Sample: MW21 **Lab ID: 40178536004** Collected: 10/25/18 16:40 Received: 10/27/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	10/31/18 16:46	11/02/18 20:44	7440-43-9	
Iron, Dissolved	**18400**	ug/L	246	73.9	1	10/31/18 16:46	11/02/18 20:44	7439-89-6	
Lead, Dissolved	**<5.9**	ug/L	19.7	5.9	1	10/31/18 16:46	11/02/18 20:44	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**163**	ug/L	50.0	12.3	50		10/30/18 09:59	71-43-2	
1,2-Dibromoethane (EDB)	**<41.5**	ug/L	138	41.5	50		10/30/18 09:59	106-93-4	
1,2-Dichloroethane	**<14.0**	ug/L	50.0	14.0	50		10/30/18 09:59	107-06-2	
Ethylbenzene	**1280**	ug/L	50.0	10.9	50		10/30/18 09:59	100-41-4	
Methyl-tert-butyl ether	**<62.3**	ug/L	208	62.3	50		10/30/18 09:59	1634-04-4	
Naphthalene	**459**	ug/L	250	58.8	50		10/30/18 09:59	91-20-3	
Toluene	**871**	ug/L	250	8.6	50		10/30/18 09:59	108-88-3	
1,2,4-Trimethylbenzene	**1940**	ug/L	140	42.0	50		10/30/18 09:59	95-63-6	
1,3,5-Trimethylbenzene	**532**	ug/L	146	43.7	50		10/30/18 09:59	108-67-8	
Xylene (Total)	**6550**	ug/L	150	75.0	50		10/30/18 09:59	1330-20-7	
m&p-Xylene	**4760**	ug/L	100	23.3	50		10/30/18 09:59	179601-23-1	
o-Xylene	**1800**	ug/L	50.0	13.1	50		10/30/18 09:59	95-47-6	
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		50		10/30/18 09:59	1868-53-7	
Toluene-d8 (S)	97	%	70-130		50		10/30/18 09:59	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		50		10/30/18 09:59	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**<5.0**	mg/L	15.0	5.0	5		10/27/18 12:21	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		11/06/18 13:13		

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ANALYTICAL RESULTS

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

Sample: MW22 **Lab ID: 40178536005** Collected: 10/25/18 15:15 Received: 10/27/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		11/09/18 23:07	7440-43-9	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		11/09/18 23:07	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		11/09/18 23:07	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/30/18 17:25	71-43-2	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/30/18 17:25	106-93-4	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/30/18 17:25	107-06-2	
Ethylbenzene	**1.2**	ug/L	1.0	0.22	1		10/30/18 17:25	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/30/18 17:25	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/30/18 17:25	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/30/18 17:25	108-88-3	
1,2,4-Trimethylbenzene	**4.4**	ug/L	2.8	0.84	1		10/30/18 17:25	95-63-6	
1,3,5-Trimethylbenzene	**1.1J**	ug/L	2.9	0.87	1		10/30/18 17:25	108-67-8	
Xylene (Total)	**3.3**	ug/L	3.0	1.5	1		10/30/18 17:25	1330-20-7	
m&p-Xylene	**2.5**	ug/L	2.0	0.47	1		10/30/18 17:25	179601-23-1	
o-Xylene	**0.87J**	ug/L	1.0	0.26	1		10/30/18 17:25	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		10/30/18 17:25	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		10/30/18 17:25	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		10/30/18 17:25	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**13.2**	mg/L	3.0	1.0	1		10/27/18 12:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**9.7**	mg/L	1.2	0.48	5		11/06/18 13:36		

Sample: MW22@35-40 **Lab ID: 40178536006** Collected: 10/25/18 15:55 Received: 10/27/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		11/09/18 23:09	7440-43-9	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		11/09/18 23:09	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		11/09/18 23:09	7439-92-1	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/30/18 11:05	71-43-2	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/30/18 11:05	106-93-4	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/30/18 11:05	107-06-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/30/18 11:05	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/30/18 11:05	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/30/18 11:05	91-20-3	

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ANALYTICAL RESULTS

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

Sample: MW22@35-40 **Lab ID: 40178536006** Collected: 10/25/18 15:55 Received: 10/27/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/30/18 11:05	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/30/18 11:05	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/30/18 11:05	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/30/18 11:05	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/30/18 11:05	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/30/18 11:05	95-47-6	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		1		10/30/18 11:05	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/30/18 11:05	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		10/30/18 11:05	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**25.7**	mg/L	3.0	1.0	1		10/27/18 12:49	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		11/08/18 11:19		

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QUALITY CONTROL DATA

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

QC Batch: 306120 | Analysis Method: EPA 6010
QC Batch Method: EPA 6010 | Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40178536001, 40178536002, 40178536003, 40178536005, 40178536006

METHOD BLANK: 1789955 | Matrix: Water
Associated Lab Samples: 40178536001, 40178536002, 40178536003, 40178536005, 40178536006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	11/09/18 22:38	
Iron, Dissolved	ug/L	<35.4	118	11/09/18 22:38	
Lead, Dissolved	ug/L	<6.4	21.4	11/09/18 22:38	

LABORATORY CONTROL SAMPLE: 1789956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	458	92	80-120	
Iron, Dissolved	ug/L	5000	4840	97	80-120	
Lead, Dissolved	ug/L	500	440	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1789957 | 1789958

Parameter	Units	40178532001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	<1.3	500	500	472	469	94	94	75-125	1	20	
Iron, Dissolved	ug/L	211	5000	5000	5040	5090	97	98	75-125	1	20	
Lead, Dissolved	ug/L	<6.4	500	500	435	434	87	87	75-125	0	20	

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QUALITY CONTROL DATA

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

QC Batch: 305028
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 40178536004

METHOD BLANK: 1782192
Matrix: Water
Associated Lab Samples: 40178536004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	11/02/18 20:03	
Iron, Dissolved	ug/L	<73.9	246	11/02/18 20:03	
Lead, Dissolved	ug/L	<5.9	19.7	11/02/18 20:03	

LABORATORY CONTROL SAMPLE: 1782193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	486	97	80-120	
Iron, Dissolved	ug/L	5000	4970	99	80-120	
Lead, Dissolved	ug/L	500	481	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1782194 1782195

Parameter	Units	40178667001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	<1.3	500	500	516	518	103	104	75-125	1	20	
Iron, Dissolved	ug/L	14400	5000	5000	19000	18300	92	79	75-125	3	20	
Lead, Dissolved	ug/L	<5.9	500	500	490	489	98	98	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

QC Batch: 304665 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40178536001, 40178536002, 40178536003, 40178536004, 40178536005, 40178536006

METHOD BLANK: 1780749 | Matrix: Water
Associated Lab Samples: 40178536001, 40178536002, 40178536003, 40178536004, 40178536005, 40178536006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/30/18 08:30	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/30/18 08:30	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/30/18 08:30	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/30/18 08:30	
Benzene	ug/L	<0.25	1.0	10/30/18 08:30	
Ethylbenzene	ug/L	<0.22	1.0	10/30/18 08:30	
m&p-Xylene	ug/L	<0.47	2.0	10/30/18 08:30	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/30/18 08:30	
Naphthalene	ug/L	<1.2	5.0	10/30/18 08:30	
o-Xylene	ug/L	<0.26	1.0	10/30/18 08:30	
Toluene	ug/L	<0.17	5.0	10/30/18 08:30	
Xylene (Total)	ug/L	<1.5	3.0	10/30/18 08:30	
4-Bromofluorobenzene (S)	%	90	70-130	10/30/18 08:30	
Dibromofluoromethane (S)	%	97	70-130	10/30/18 08:30	
Toluene-d8 (S)	%	97	70-130	10/30/18 08:30	

LABORATORY CONTROL SAMPLE: 1780750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	44.3	89	70-130	
1,2-Dichloroethane	ug/L	50	44.8	90	73-134	
Benzene	ug/L	50	42.9	86	69-137	
Ethylbenzene	ug/L	50	43.7	87	86-127	
m&p-Xylene	ug/L	100	92.0	92	70-131	
Methyl-tert-butyl ether	ug/L	50	42.6	85	65-136	
o-Xylene	ug/L	50	43.8	88	70-130	
Toluene	ug/L	50	43.4	87	84-124	
Xylene (Total)	ug/L	150	136	91	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			93	70-130	

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QUALITY CONTROL DATA

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

QC Batch: 304530 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40178536001, 40178536002, 40178536003, 40178536004, 40178536005, 40178536006

METHOD BLANK: 1779960 | Matrix: Water
Associated Lab Samples: 40178536001, 40178536002, 40178536003, 40178536004, 40178536005, 40178536006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	10/27/18 11:12	

LABORATORY CONTROL SAMPLE: 1779961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779962 1779963

Parameter	Units	40178536006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	25.7	20	20	46.5	46.6	104	104	90-110	0	15	

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QUALITY CONTROL DATA

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

QC Batch: 305593 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40178536001, 40178536002, 40178536003, 40178536004, 40178536005

METHOD BLANK: 1785528 | Matrix: Water
Associated Lab Samples: 40178536001, 40178536002, 40178536003, 40178536004, 40178536005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	11/06/18 12:47	

LABORATORY CONTROL SAMPLE: 1785529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785530 1785531

Parameter	Units	40178507006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	5.2	2.5	2.5	7.7	7.7	103	103	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785532 1785533

Parameter	Units	40178536005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	9.7	12.5	12.5	22.3	22.2	101	100	90-110	1	20	

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QUALITY CONTROL DATA

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

QC Batch: 305888 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40178536006

METHOD BLANK: 1787896 | Matrix: Water
Associated Lab Samples: 40178536006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	11/08/18 11:14	

LABORATORY CONTROL SAMPLE: 1787897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1787898 1787899

Parameter	Units	40178758002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	4.8	2.5	2.5	7.5	7.5	108	108	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1787900 1787901

Parameter	Units	40178758012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	5.4	2.5	2.5	7.9	8.0	103	105	90-110	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.

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

QUALIFIERS

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 903 TOWER STANDARD
Pace Project No.: 40178536

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178536004	**MW21**	EPA 3010	305028	EPA 6010	305332
40178536001	**MW18**	EPA 6010	306120		
40178536002	**MW19**	EPA 6010	306120		
40178536003	**MW19@31-36**	EPA 6010	306120		
40178536005	**MW22**	EPA 6010	306120		
40178536006	**MW22@35-40**	EPA 6010	306120		
40178536001	**MW18**	EPA 8260	304665		
40178536002	**MW19**	EPA 8260	304665		
40178536003	**MW19@31-36**	EPA 8260	304665		
40178536004	**MW21**	EPA 8260	304665		
40178536005	**MW22**	EPA 8260	304665		
40178536006	**MW22@35-40**	EPA 8260	304665		
40178536001	**MW18**	EPA 300.0	304530		
40178536002	**MW19**	EPA 300.0	304530		
40178536003	**MW19@31-36**	EPA 300.0	304530		
40178536004	**MW21**	EPA 300.0	304530		
40178536005	**MW22**	EPA 300.0	304530		
40178536006	**MW22@35-40**	EPA 300.0	304530		
40178536001	**MW18**	EPA 353.2	305593		
40178536002	**MW19**	EPA 353.2	305593		
40178536003	**MW19@31-36**	EPA 353.2	305593		
40178536004	**MW21**	EPA 353.2	305593		
40178536005	**MW22**	EPA 353.2	305593		
40178536006	**MW22@35-40**	EPA 353.2	305888		

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Page 1 of

40178536

Pace Analytical®
www.pacelabs.com

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

CHAIN OF CUSTODY

(Please Print Clearly)

Company Name:	RET
Branch/Location:	
Project Contact:	David Larsen
Phone:	715-675-9784
Project Number:	903
Project Name:	Tower Standard
Project State:	Wi
Sampled By (Print):	David Larsen
Sampled By (Sign):	[signature]
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: PVOC/N/EDB/1,2-DCA	Dissolved Lead	Dissolved Iron	Dissolved Cadmium	Nitrate + Nitrite ①	Sulfate			CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N: N	D	D	D	C	A					
					Pick Letter: B	Y	Y	Y	N	N					
001	MW18	10/25/18	1:30	GW	X	X	X	X	X	X					
002	~~MW19~~ MW19		1:55												
003	~~MW19~~ MW19@31-36		2:28												
004	MW21		4:50										Special Pricing on Organics		
005	MW22		3:15												
006	MW22@35-40		3:55												

① Added to COC Per DL 10-29-18

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:
[signature]	10/26/18 @ 2:30		
Waltco	10/27/18 0815	[signature]	10/27/18 0815

PACE Project No. 40178536

Receipt Temp = R01 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: REI Project # 40178536

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

Lab Lot# of pH paper: 10452681 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: [illegible] Date/ Time:

Pace Lab #	Glass: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001											1		①2	1				3										✓			✓		2.5 / 5 / 10
002											1		1	1				3										✓			✓		2.5 / 5 / 10
003											1		1	1				3										✓			✓		2.5 / 5 / 10
004											1		①1	1				3										✓					2.5 / 5 / 10
005											1		1	1				3										✓			✓		2.5 / 5 / 10
006											1		1	1				3										✓			✓		2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

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

① [illegible] 10-29-18

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#: 40178536

40178536

Client Name: REI

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

Tracking #: 1878623

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

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

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

Cooler Temperature Uncorr: /Corr: R01

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

Person examining contents:
Date: 10/27/18
Initials: CMD

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. mail to, invoice to project # CMD 10/27/18
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: CMD 10/27/18 For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8. 004 no metals bottle Sample Placed by Aparent CMD 10/27/18
Correct Containers Used:	☑Yes ☐No	9. Color per DL 10-29-18
-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. 002 time on labels 1350
-Includes date/time/ID/Analysis Matrix: W		001 ID MW17 CMD 10/27/18
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:** 10-29-18

APPENDIX B

HISTORICAL INVESTIGATION DATA TABLES AND SITE MAP

Table 3a
Summary of Geoprobe Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				GP1	GP2	GP3	GP4	GP6
			Date	20-Aug-97	20-Aug-97	20-Aug-97	20-Aug-97	20-Aug-97
VOC Parameters	**ES**	**PAL**	**Units**					
Benzene	5	0.5	µg/l	**320**	**2**	**17**	**2,800**	**3**
Ethylbenzene	700	140	µg/l	5	X	1	**5,600**	2
Toluene	1,000	200	µg/l	13	X	1	**760**	X
Xylenes (mixed isomers)	10,000	1,000	µg/l	56	X	X	**5,510**	X
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	11	X	X	**2,800**	X
1,3,5-Trimethylbenzene	480	96	µg/l	6	X	X	**1,300**	X
Naphthalene	40	8	µg/l	X	X	X	**140**	X
n-Butylbenzene			µg/l	X	X	X	X	X
Pyrene	250	50	µg/l	1	X	X	71	X
n-Propylbenzene			µg/l	2	X	X	230	X
Isopropylbenzene			µg/l	3	X	X	87	X
p-Isopropyltoluene			µg/l	X	X	X	34	X

				GP10	GP11	GP12	GP14	GP15
			Date	20-Aug-97	20-Aug-97	20-Aug-97	20-Aug-97	20-Aug-97
VOC Parameters	**ES**	**PAL**	**Units**					
Benzene	5	0.5	µg/l	0.28	X	0.27	X	**2,000**
Ethylbenzene	700	140	µg/l	0.53	X	1	X	**17,000**
Toluene	1,000	200	µg/l	X	X	X	X	**3,100**
Xylenes (mixed isomers)	10,000	1,000	µg/l	1.1	X	1.24	X	**14,700**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	X	X	X
Trimethylbenzenes (mixed isomers	480	96	µg/l	1.57	5	1.49	X	**4,900**
Naphthalene	40	8	µg/l	X	7	0.99	X	**660**
n-Butylbenzene			µg/l	X	X	X	X	X
sec-Butylbenzene			µg/l	X	X	X	X	X
n-Propylbenzene			µg/l	X	X	X	X	380
Isopropylbenzene			µg/l	X	X	X	X	150
p-Isopropyltoluene			µg/l	X	X	X	X	X

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3b
MW1s
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				25-Sep-97	04-Oct-97	15-Jan-98	26-Mar-98	03-Sep-98	29-Dec-98	08-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	05-Dec-01	16-Jul-02	03-Dec-02	03-Dec-02
Parameter	**ES**	**PAL**	**Units**															
GRO			mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**RW1**	NA	**RW3**	NA
DRO			mg/l	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**RW2**	NA	**Pump**	NA
VOC Parameters															**RW3**		**Turned**	
Benzene	5	0.5	µg/l	**1,100**	NA	**190**	**190**	**35**	**220**	**190**	**47.7**	**43.6**	**30.5**	**37.1**		**200**	**Off**	**350**
Toluene	1,000	200	µg/l	**1,300**	NA	**250**	190	36	160	170	89	33.9	42.4	37.5		97		170
Ethylbenzene	700	140	µg/l	**370**	NA	**340**	**330**	130	**190**	**150**	128	110	130	110		**220**		**190**
Xylenes (mixed isomers)	10,000	1,000	µg/l	**2,000**	NA	770	**1,200**	511	590	620	490	344.1	505	349.3	**S**	890		393
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	**36**	NA	**42**	**74**	X	**450**	X	X	< 15	< 3	< 1.5	**Y**	**33**		**21**
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**1,360**	NA	**810**	**1,400**	**680**	**810**	**830**	**814**	**519**	**947**	**799**	**S**	**1,260**		**840**
Naphthalene	40	8	µg/l	**53**	NA	**80**	NA	NA	NA	NA	NA	NA	**63.4**	**58**	**T**	NA		**76**
n-Butylbenzene			µg/l	59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**E**	NA		NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**M**	NA		NA
n-Propylbenzene			µg/l	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Isopropylbenzene			µg/l	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**S**	NA		NA
Methylene Chloride	5	0.5	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**T**	NA		NA
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**A**	NA		NA
1,2,4-Trichlorobenzene	70	14	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**R**	NA		NA
Dichlorodifluoromethane	1000	200	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**T**	NA		NA
PAH Parameters															**U**			
Anthracene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**P**	NA		NA
Fluorene	400	80	µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Fluoranthene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Indeno(1,2,3-cd)Pyrene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Phenanthrene			µg/l	NA	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Pyrene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Benzo(a)Anthracene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Benzo(a)Pyrene	0.2	0.02	µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Benzo(b)Fluoranthene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Benzo(ghi)Perylene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Benzo(k)Fluoranthene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Naphthalene	40	8	µg/l	NA	**84**	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Chrysene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
1-Methyl Naphthalene			µg/l	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
2-Methyl Naphthalene			µg/l	NA	86	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Inorganics (mg/l)																		
Lead	15	1.5	µg/l	**7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA
Nitrate (as N)	10	2	mg/l	0.05	NA	NA	NA	X	X	X	X	< 0.3	< 0.3	NA		NA		NA
Sulfate	250	125	mg/l	4	NA	NA	NA	8.4	13	9.5	3.11	5.9	< 1.5	NA		NA		NA
Iron (filtered)	0.3	0.15	mg/l	**2.8**	NA	NA	NA	**64**	**20**	**21**	**17.5**	**6.98**	**13.1**	NA		NA		NA
Field Measurements																		
Temperature			°F	55.63	NA	49.51	42.9	60.33	NA	43.15	NA	NA	NA	NA		NA		NA
Conductivity			µS/cm	236	NA	992	703	893	NA	342	NA	NA	NA	NA		NA		NA
pH				NA	NA	6.37	6.2	5.5	NA	7.15	NA	NA	NA	NA		NA		NA
Dissolved Oxygen			mg/l	1.48	NA	0.4	1.6	1.49	NA	2.6	NA	NA	NA	NA		NA		NA
ORP			mV	-10.6	NA	-69	-3.1	-1.4	NA	-27.3	NA	NA	NA	NA		NA		NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3b
MW1s - continued
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				08-Dec-02	18-Mar-03	15-Jul-03	08-Oct-03	16-Oct-03	22-Oct-03	13-Nov-03	22-Dec-03	30-Mar-04	05-May-04	21-Jul-04	30-Oct-04	20-Apr-05	20-Jul-05	30-Nov-05
Parameter	**ES**	**PAL**	**Units**															
GRO			mg/l	**RW2**	NA	NA	NA	**2" Pump**	NA	NA	**MW1s**	**RW4**	NA	NA	**RW4**	NA	NA	NA
DRO			mg/l	**Pump**	NA	NA	NA	**Installed**	NA	NA	**Pumps**	**Pump**	NA	NA	**Pump**	NA	NA	NA
VOC Parameters				**Turned**				**in MW1s**			**Turned**	**Turned**			**Turned**			
Benzene	5	0.5	µg/l	**Off**	**350**	**160**	**240**		**30**	**18**	**Off**	**On**	**0.62**	**1.3**	**Off**	**23**	**9.1**	< 0.14
Toluene	1,000	200	µg/l		360	92	140	**Pump**	110	67			0.52*	0.53*		8.2	2.3	< 0.36
Ethylbenzene	700	140	µg/l		**240**	**120**	**170**	**Plumbed**	**56**	**95**			0.64*	0.52*		45	18	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l		658	309	550	**into**	277	362	**S**	**S**	1.1*	0.94*	**S**	80.4	23.8	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		**59**	**40**	**42**	**System**	**19**	**30**	**Y**	**Y**	2.1	0.37	**Y**	**24**	5.8	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l		**970**	**610**	**810**		**125**	**670**	**S**	**S**	6.3	4.5	**S**	**188**	**140**	< 0.40
Naphthalene	40	8	µg/l		**74**	**45**	**71**		**15**	**50**	**T**	**T**	**50**	0.47	**T**	**15**	7.3	< 0.47
n-Butylbenzene			µg/l		NA	NA	NA		NA	NA	**E**	**E**	NA	NA	**E**	NA	NA	NA
sec-Butylbenzene			µg/l		NA	NA	NA	**RW1**	NA	NA	**M**	**M**	NA	NA	**M**	NA	NA	NA
n-Propylbenzene			µg/l		NA	NA	NA	**Pump**	NA	NA			NA	NA		NA	NA	NA
Isopropylbenzene			µg/l		NA	NA	NA	**Turned**	NA	NA	**O**	**R**	NA	NA	**S**	NA	NA	NA
Methylene Chloride	5	0.5	µg/l		NA	NA	NA	**Off**	NA	NA	**F**	**E**	NA	NA	**H**	NA	NA	NA
tert-Butylbenzene			µg/l		NA	NA	NA		NA	NA	**F**	**S**	NA	NA	**U**	NA	NA	NA
1,2,4-Trichlorobenzene	70	14	µg/l		NA	NA	NA		NA	NA		**T**	NA	NA	**T**	NA	NA	NA
Dichlorodifluoromethane	1000	200	µg/l		NA	NA	NA		NA	NA	**F**	**A**	NA	NA	**D**	NA	NA	NA
PAH Parameters											**O**	**R**			**O**			
Anthracene			µg/l		NA	NA	NA		NA	NA	**R**	**T**	NA	NA	**W**	NA	NA	NA
Fluorene	400	80	µg/l		NA	NA	NA		NA	NA			NA	NA	**N**	NA	NA	NA
Fluoranthene			µg/l		NA	NA	NA		NA	NA	**W**		NA	NA		NA	NA	NA
Indeno(1,2,3-cd)Pyrene			µg/l		NA	NA	NA		NA	NA	**I**		NA	NA		NA	NA	NA
Phenanthrene			µg/l		NA	NA	NA		NA	NA	**N**		NA	NA		NA	NA	NA
Pyrene			µg/l		NA	NA	NA		NA	NA	**T**		NA	NA		NA	NA	NA
Benzo(a)Anthracene			µg/l		NA	NA	NA		NA	NA	**E**		NA	NA		NA	NA	NA
Benzo(a)Pyrene	0.2	0.02	µg/l		NA	NA	NA		NA	NA	**R**		NA	NA		NA	NA	NA
Benzo(b)Fluoranthene			µg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Benzo(ghi)Perylene			µg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Benzo(k)Fluoranthene			µg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Naphthalene	40	8	µg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Chrysene			µg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
1-Methyl Naphthalene			µg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
2-Methyl Naphthalene			µg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Inorganics (mg/l)																		
Lead	15	1.5	µg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Nitrate (as N)	10	2	mg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Sulfate	250	125	mg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Field Measurements																		
Temperature			°F		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Conductivity			µS/cm		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
pH					NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
Dissolved Oxygen			mg/l		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA
ORP			mV		NA	NA	NA		NA	NA			NA	NA		NA	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**

Table 3c
MW1d
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				25-Sep-97	15-Jan-98	26-Mar-98	03-Sep-98	29-Dec-98	08-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	05-Dec-01	16-Jul-02	03-Dec-02	03-Dec-02	08-Dec-02
Parameter	**ES**	**PAL**	**Units**															
GRO			mg/l	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	**RW1**	NA	**RW3**	NA	**RW2**
DRO			mg/l	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	**RW2**	NA	**Pump**	NA	**Pump**
VOC Parameters														**RW3**		**Turned**		**Turned**
Benzene	5	0.5	µg/l	**9,600**	**1,600**	**14,000**	**8,400**	**4,800**	**9,400**	**10,900**	**12,900**	**5,930**	**12,500**		**220**	**Off**	**580**	**Off**
Toluene	1,000	200	µg/l	**770**	**230**	**420**	**4,500**	**280**	**780**	**2,850**	**10,400**	**1,060**	**2,620**		7.5		5.4	
Ethylbenzene	700	140	µg/l	**870**	**1,400**	**1,200**	**890**	**340**	**880**	**1,080**	**1,550**	**630**	**1,420**		110		36	
Xylenes (mixed isomers)	10,000	1,000	µg/l	**4,100**	**5,400**	**5,500**	**3,100**	**1,400**	**3,500**	**4,150**	**6,490**	**1,978**	**4,850**	**S**	67		104	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	**260**	**78**	**280**	**590**	**340**	X	X	**400**	< 75	< 75	**Y**	4.5		7.5	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**1,340**	**1,130**	**950**	**640**	**277**	**600**	**892**	**961**	**435.4**	**1,062**	**S**	32		23	
Naphthalene	40	8	µg/l	X	**230**	NA	NA	NA	NA	NA	NA	< 200	NA	**T**	NA		NA	
n-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**E**	NA		NA	
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**M**	NA		NA	
n-Propylbenzene			µg/l	86	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**S**	NA		NA	
Methylene Chloride	5	0.5	µg/l	**88**	NA	NA	NA	NA	NA	NA	NA	NA	NA	**T**	NA		NA	
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**A**	NA		NA	
1,2,4-Trichlorobenzene	70	14	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**R**	NA		NA	
Dichlorodifluoromethane	1000	200	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**T**	NA		NA	
PAH Parameters														**U**				
Anthracene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**P**	NA		NA	
Fluorene	400	80	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Indeno(1,2,3-cd)Pyrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Phenanthrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Pyrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Benzo(a)Anthracene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Benzo(a)Pyrene	0.2	0.02	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Benzo(b)Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Benzo(ghi)Perylene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Benzo(k)Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Chrysene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Naphthalene	40	8	µg/l	**69**	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
1-Methyl Naphthalene			µg/l	21	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
2-Methyl Naphthalene			µg/l	11	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Inorganics (mg/l)																		
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	
Nitrate (as N)	10	2	mg/l	0.2	NA	NA	X	X	X	X	< 0.3	< 0.3	NA		NA		NA	
Sulfate	250	125	mg/l	X	NA	NA	8.5	15	6.9	X	< 1.5	< 1.5	NA		NA		NA	
Iron (filtered)	0.3	0.15	mg/l	**57**	NA	NA	**59**	**61**	**74**	**65.3**	**54.1**	**57.7**	NA		NA		NA	
Field Measurements																		
Temperature			°F	48.51	49.95	47.58	48.71	NA	49.84	55.96	57.53	NA	NA		NA		NA	
Conductivity			µS/cm	968	179	1,074	927	NA	1083	922	863	NA	NA		NA		NA	
pH				NA	1.77	6.51	5.52	NA	7.11	6.52	6.26	NA	NA		NA		NA	
Dissolved Oxygen			mg/l	0.92	6.7	1.64	0.45	NA	0.89	1.46	2.39	NA	NA		NA		NA	
ORP			mV	-11.7	-88	-48.4	-61.7	NA	-89.1	-90.2	-100.4	NA	NA		NA		NA	

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3c
MW1d
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				18-Mar-03	15-Jul-03	19-Oct-03	22-Oct-03	13-Nov-03	24-Nov-03	10-Dec-03	22-Dec-03	30-Mar-04	05-May-04	21-Jul-04	30-Oct-04	20-Apr-05	20-Jul-05	30-Nov-05
Parameter	**ES**	**PAL**	**Units**															
GRO			mg/l	NA	NA	**2" Pump**	NA	NA	NA	NA	**MW1d**	**RW4**	NA	NA	**RW4**	NA	NA	NA
DRO			mg/l	NA	NA	**Installed**	NA	NA	NA	NA	**Pump**	**Pump**	NA	NA	**Pump**	NA	NA	NA
VOC Parameters						**in MW1d**					**Turned**	**Turned**			**Turned**			
Benzene	5	0.5	µg/l	**770**	**520**		**200**	**330**	**360**	**460**	**Off**	**On**	**45**	**76**	**Off**	**53**	**45**	**94**
Toluene	1,000	200	µg/l	5.8*	< 2.9	**Pump**	30	280	370	410			0.38*	< 0.36		< 0.36	1.4	< 0.36
Ethylbenzene	700	140	µg/l	22	7.5*	**Plumbed**	27	85	96	83			4.9	4.8		1.7	2.6	5.2
Xylenes (mixed isomers)	10,000	1,000	µg/l	80	27	**into**	50	219	256	234	**S**	**S**	6.8	3.6	**S**	0.38*	3.2*	1.2*
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	19	14	**System**	6.9	7.4	7.1	8.5	**Y**	**Y**	0.92*	1.3	**Y**	1.5	2.2	1.5
Trimethylbenzenes (mixed isomers)	480	96	µg/l	42*	10		12	56	69	63	**S**	**S**	2.7	0.52	**S**	1.2*	1.1*	1.2*
Naphthalene	40	8	µg/l	22	13		7.5	19	24	22	**T**	**T**	0.67*	< 0.47	**T**	0.96*	1.6	0.5*
n-Butylbenzene			µg/l	NA	NA		NA	NA	NA	NA	**E**	**E**	NA	NA	**E**	NA	NA	NA
sec-Butylbenzene			µg/l	NA	NA	**RW1**	NA	NA	NA	NA	**M**	**M**	NA	NA	**M**	NA	NA	NA
n-Propylbenzene			µg/l	NA	NA	**Pump**	NA	NA	NA	NA			NA	NA		NA	NA	NA
Isopropylbenzene			µg/l	NA	NA	**Turned**	NA	NA	NA	NA	**O**	**R**	NA	NA	**S**	NA	NA	NA
Methylene Chloride	5	0.5	µg/l	NA	NA	**Off**	NA	NA	NA	NA	**F**	**E**	NA	NA	**H**	NA	NA	NA
tert-Butylbenzene			µg/l	NA	NA		NA	NA	NA	NA	**F**	**S**	NA	NA	**U**	NA	NA	NA
1,2,4-Trichlorobenzene	70	14	µg/l	NA	NA		NA	NA	NA	NA		**T**	NA	NA	**T**	NA	NA	NA
Dichlorodifluoromethane	1000	200	µg/l	NA	NA		NA	NA	NA	NA	**F**	**A**	NA	NA	**D**	NA	NA	NA
PAH Parameters											**O**	**R**			**O**			
Anthracene			µg/l	NA	NA		NA	NA	NA	NA	**R**	**T**	NA	NA	**W**	NA	NA	NA
Fluorene	400	80	µg/l	NA	NA		NA	NA	NA	NA			NA	NA	**N**	NA	NA	NA
Fluoranthene			µg/l	NA	NA		NA	NA	NA	NA	**W**		NA	NA		NA	NA	NA
Indeno(1,2,3-cd)Pyrene			µg/l	NA	NA		NA	NA	NA	NA	**I**		NA	NA		NA	NA	NA
Phenanthrene			µg/l	NA	NA		NA	NA	NA	NA	**N**		NA	NA		NA	NA	NA
Pyrene			µg/l	NA	NA		NA	NA	NA	NA	**T**		NA	NA		NA	NA	NA
Benzo(a)Anthracene			µg/l	NA	NA		NA	NA	NA	NA	**E**		NA	NA		NA	NA	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	NA	NA		NA	NA	NA	NA	**R**		NA	NA		NA	NA	NA
Benzo(b)Fluoranthene			µg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Benzo(ghi)Perylene			µg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Benzo(k)Fluoranthene			µg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Chrysene			µg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Naphthalene	40	8	µg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
1-Methyl Naphthalene			µg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
2-Methyl Naphthalene			µg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Inorganics (mg/l)																		
Lead	15	1.5	µg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Nitrate (as N)	10	2	mg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Sulfate	250	125	mg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Field Measurements																		
Temperature			°F	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Conductivity			µS/cm	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
pH				NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
Dissolved Oxygen			mg/l	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA
ORP			mV	NA	NA		NA	NA	NA	NA			NA	NA		NA	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3d
MW2
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				25-Sep-97	15-Jan-98	26-Mar-98	03-Sep-98	29-Dec-98	08-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	05-Dec-01	16-Jul-02	03-Dec-02
Parameter	**ES**	**PAL**	**Units**													
GRO			mg/l	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	**RW1**	NA	**RW3**
DRO			mg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**RW2**	NA	**Pump**
VOC Parameters														**RW3**		**Turned**
Benzene	5	0.5	µg/l	**840**	**150**	**300**	**560**	**680**	**640**	**3,860**	**323**	**588**	**522**	**RW4**	**73**	**Off**
Toluene	1,000	200	µg/l	23	7	8	14	7.2	6.3	81.6	< 25	6.19	6.65		< 0.68	
Ethylbenzene	700	140	µg/l	X	2	3	14	5.7	6.7	X	38.4	25.7	14.9		< 0.82	
Xylenes (mixed isomers)	10,000	1,000	µg/l	24	6	8	X	13	10	81	< 25	35.45	13.69	**S**	< 1.7	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	X	**17**	**27**	X	X	< 25	< 1.5	< 0.3	**Y**	< 0.43	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	X	X	X	X	0.26	X	X	< 25	6.06	1.8	**S**	< 0.94	
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NA	NA	< 25	NA	1.26	**T**	NA	
n-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**E**	NA	
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**M**	NA	
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**S**	NA	
Methylene Chloride			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**T**	NA	
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**A**	NA	
1,2,4-Trichlorobenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**R**	NA	
Dichlorodifluoromethane			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**T**	NA	
PAH Parameters														**U**		
Anthracene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	**P**	NA	
Fluorene	400	80	µg/l	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Indeno(1,2,3-cd)Pyrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Phenanthrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Pyrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Benzo(a)Anthracene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Benzo(a)Pyrene	0.2	0.02	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Benzo(b)Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Benzo(ghi)Perylene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Benzo(k)Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Chrysene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
1-Methyl Naphthalene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
2-Methyl Naphthalene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Inorganics (mg/l)																
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Nitrate (as N)	10	2	mg/l	0.03	NA	NA	X	X	X	X	< 0.3	< 0.3	NA		NA	
Sulfate	250	125	mg/l	X	NA	NA	18	19	11	5.19	3.09	2.51	NA		NA	
Iron (filtered)	0.3	0.15	mg/l	**81**	NA	NA	**77**	**84**	**110**	**124**	106	72.4	NA		NA	
Field Measurements																
Temperature			°F	58.41	46.63	41.94	63.36	NA	44.58	NA	61.87	58.16	NA		NA	
Conductivity			µS/cm	2,922	2,500	4,794	3,578	NA	3,110	NA	6,473	3,547	NA		NA	
pH				NA	6.31	6.38	5.47	NA	5.49	NA	6.19	6.06	NA		NA	
Dissolved Oxygen			mg/l	1.38	2.7	3.67	1.62	NA	2.39	NA	1.87	3.75	NA		NA	
ORP			mV	-75.8	-78.9	-26.3	-54.2	NA	-58.1	NA	-90.2	-55.6	NA		NA	

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3d
MW2
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				03-Dec-02	08-Dec-02	18-Mar-03	15-Jul-03	10-Sep-03	13-Nov-03	22-Dec-03	30-Mar-04	30-Mar-04	21-Jul-04	30-Oct-04	20-Jul-05	30-Nov-05
Parameter	**ES**	**PAL**	**Units**													
GRO			mg/l	NA	**RW2**	NA	NA	NA	NA	**RW1**	**RW4**	NA	NA	**RW4**	NA	NA
DRO			mg/l	NA	**Pump**	NA	NA	NA	NA	**RW4**	**Pump**	NA	NA	**Pump**	NA	NA
VOC Parameters					**Turned**					**Pumps**	**Turned**			**Turned**		
Benzene	5	0.5	µg/l	**48**	**Off**	**39**	**130**	**120**	**15**	**Turned**	**On**	**27**	**2.1**	**Off**	**0.88**	**0.53**
Toluene	1,000	200	µg/l	0.73*		< 0.68	2.3	1.8*	< 0.58	**Off**		0.55*	< 0.36		< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	< 0.82		< 0.82	< 0.60	< 0.60	< 0.60			< 0.40	< 0.40		< 0.40	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 1.7		< 1.7	1.3*	0.97*	< 1.2	**S**	**S**	< 0.74	< 0.74	**S**	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.43		< 0.43	< 0.58	0.74*	< 0.58	**Y**	**Y**	< 0.36	< 0.36	**Y**	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.94		< 0.94	< 0.66	< 0.66	< 0.66	**S**	**S**	< 0.40	< 0.40	**S**	< 0.40	< 0.40
Naphthalene	40	8	µg/l	< 0.89		< 0.89	< 0.58	< 0.58	< 0.58	**T**	**T**	< 0.47	< 0.47	**T**	< 0.47	< 0.47
n-Butylbenzene			µg/l	NA		NA	NA	NA	NA	**E**	**E**	NA	NA	**E**	NA	NA
sec-Butylbenzene			µg/l	NA		NA	NA	NA	NA	**M**	**M**	NA	NA	**M**	NA	NA
n-Propylbenzene			µg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Isopropylbenzene			µg/l	NA		NA	NA	NA	NA	**O**	**R**	NA	NA	**S**	NA	NA
Methylene Chloride			µg/l	NA		NA	NA	NA	NA	**F**	**E**	NA	NA	**H**	NA	NA
tert-Butylbenzene			µg/l	NA		NA	NA	NA	NA	**F**	**S**	NA	NA	**U**	NA	NA
1,2,4-Trichlorobenzene			µg/l	NA		NA	NA	NA	NA		**T**	NA	NA	**T**	NA	NA
Dichlorodifluoromethane			µg/l	NA		NA	NA	NA	NA	**F**	**A**	NA	NA	**D**	NA	NA
PAH Parameters										**O**	**R**			**O**		
Anthracene			µg/l	NA		NA	NA	NA	NA	**R**	**T**	NA	NA	**W**	NA	NA
Fluorene	400	80	µg/l	NA		NA	NA	NA	NA			NA	NA	**N**	NA	NA
Fluoranthene			µg/l	NA		NA	NA	NA	NA	**W**		NA	NA		NA	NA
Indeno(1,2,3-cd)Pyrene			µg/l	NA		NA	NA	NA	NA	**I**		NA	NA		NA	NA
Phenanthrene			µg/l	NA		NA	NA	NA	NA	**N**		NA	NA		NA	NA
Pyrene			µg/l	NA		NA	NA	NA	NA	**T**		NA	NA		NA	NA
Benzo(a)Anthracene			µg/l	NA		NA	NA	NA	NA	**E**		NA	NA		NA	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	NA		NA	NA	NA	NA	**R**		NA	NA		NA	NA
Benzo(b)Fluoranthene			µg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Benzo(ghi)Perylene			µg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Benzo(k)Fluoranthene			µg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Naphthalene	40	8	µg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Chrysene			µg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
1-Methyl Naphthalene			µg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
2-Methyl Naphthalene			µg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Inorganics (mg/l)																
Lead	15	1.5	µg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Nitrate (as N)	10	2	mg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Sulfate	250	125	mg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Iron (filtered)	0.3	0.15	mg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
Field Measurements																
Temperature			°F	NA		NA	NA	NA	NA			NA	NA		NA	NA
Conductivity			µS/cm	NA		NA	NA	NA	NA			NA	NA		NA	NA
pH				NA		NA	NA	NA	NA			NA	NA		NA	NA
Dissolved Oxygen			mg/l	NA		NA	NA	NA	NA			NA	NA		NA	NA
ORP			mV	NA		NA	NA	NA	NA			NA	NA		NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3e
MW3
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				25-Sep-97	15-Jan-98	26-Mar-98	03-Sep-98	29-Dec-98	08-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	16-Jul-02	03-Dec-02	18-Mar-03	18-Jul-03	13-Nov-03	18-Jul-03	21-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**																		
GRO			mg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
DRO			mg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
VOC Parameters																					
Benzene	5	0.5	µg/l	X	X	X	X	X	X	X	< 0.2	< 0.15	NS	< 0.45	NS	NS	< 0.30	NS	< 0.30	< 0.14	< 0.14
Toluene	1,000	200	µg/l	X	X	X	X	X	X	X	< 0.5	< 0.4	NS	< 0.68	NS	NS	< 0.58	NS	< 0.58	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	X	X	X	X	X	X	X	< 0.5	< 0.5	NS	< 0.82	NS	NS	< 0.60	NS	< 0.60	< 0.40	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	X	X	X	X	X	X	X	< 0.5	< 0.4	NS	< 1.7	NS	NS	< 1.2	NS	< 1.2	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	X	X	X	X	X	< 0.3	< 0.3	NS	< 0.43	NS	NS	< 0.58	NS	< 0.58	0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	X	X	X	X	X	X	X	< 0.5	< 0.4	NS	< 0.94	NS	NS	< 0.66	NS	< 0.66	< 0.40	< 0.40
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	< 0.58	NS	< 0.58	< 0.47	< 0.47
n-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Methylene Chloride			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
1,2,4-Trichlorobenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Dichlorodifluoromethane			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
PAH Parameters																					
Anthracene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Fluorene	400	80	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Indeno(1,2,3-cd)Pyrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Phenanthrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Pyrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Benzo(a)Anthracene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Benzo(b)Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Benzo(ghi)Perylene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Benzo(k)Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Chrysene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
1-Methyl Naphthalene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
2-Methyl Naphthalene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Inorganics (mg/l)																					
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA	NA
Nitrate (as N)	10	2	mg/l	**2.1**	NA	NA	0.41	1.1	1.2	1.8	1.5	1.08	NS	NA	NS	NS	NA	NS	NA	NA	NA
Sulfate	250	125	mg/l	35	NA	NA	37	34	40	43.5	45.7	45.7	NS	NA	NS	NS	NA	NS	NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l	**0.5**	NA	NA	0.062	0.04	0.05	0.035	0.074	0.051	NS	NA	NS	NS	NA	NS	NA	NA	NA
Field Measurements																					
Temperature			°F	57.37	46.2	42.78	62.83	NA	41.88	NA	55.02	59.21	NS	NA	NS	NS	NA	NS	NA	NA	NA
Conductivity			µS/cm	2,809	2989	3,649	1879	NA	2284	NA	2,508	960	NS	NA	NS	NS	NA	NS	NA	NA	NA
pH				NA	7.52	7.04	5.69	NA	7.55	NA	7.00	6.65	NS	NA	NS	NS	NA	NS	NA	NA	NA
Dissolved Oxygen			mg/l	1.93	2.46	2.51	1.47	NA	4.34	NA	2.08	2.13	NS	NA	NS	NS	NA	NS	NA	NA	NA
ORP			mV	-32.3	115.1	14.5	-1.2	NA	131.4	NA	6.00	139.3	NS	NA	NS	NS	NA	NS	NA	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3f
MW4
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				25-Sep-97	04-Oct-97	15-Jan-98	26-Mar-98	03-Sep-98	29-Dec-98	08-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	16-Jul-02	03-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	30-Mar-04	05-May-04	21-Jul-04	22-Mar-05	20-Apr-05	20-Jul-05
Parameter	**ES**	**PAL**	**Units**																						
GRO			mg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DRO			mg/l	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOC Parameters																									
Benzene	5	0.5	µg/l	**3**	NA	X	X	X	X	X	X	< 0.2	< 0.15	NS	**0.87**	**2.2**	**1.9**	0.38*	< 0.30	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Toluene	1,000	200	µg/l	5	NA	X	X	X	X	X	X	< 0.5	< 0.4	NS	< 0.68	< 0.68	< 0.68	< 0.58	< 0.58	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	X	NA	X	X	X	X	X	X	< 0.5	< 0.5	NS	< 0.82	< 0.82	< 0.82	< 0.60	< 0.60	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	8	NA	X	X	X	X	X	X	< 0.5	< 0.4	NS	< 1.7	< 1.7	< 1.7	< 1.2	< 1.2	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	NA	X	X	X	X	X	X	< 0.3	< 0.3	NS	2	< 0.43	< 0.43	< 0.58	< 0.58	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	2	NA	X	X	X	X	X	X	< 0.5	< 0.4	NS	< 0.94	< 0.89	< 0.94	< 0.66	< 0.66	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	< 0.89	< 0.58	< 0.58	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
n-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
PAH Parameters																									
Anthracene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	400	80	µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Anthracene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)Fluoranthene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)Perylene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)Fluoranthene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	40	8	µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyl Naphthalene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl Naphthalene			µg/l	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/l)																									
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	10	2	mg/l	0.03	NA	NA	NA	X	X	X	X	< 0.3	< 0.3	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250	125	mg/l	5	NA	NA	NA	8.9	6.8	6.3	18.7	12.7	7.33	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l	**0.34**	NA	NA	NA	**57**	**62**	**44**	**48.7**	**13.2**	**11.4**	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																									
Temperature			°F	55.19	NA	43.37	42.18	57.86	NA	42.11	NA	56.64	55.1	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity			µS/cm	196	NA	131	120	846	NA	773	NA	308	262	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
pH				NA	NA	7.12	6.55	5.82	NA	6.73	NA	5.7	6.45	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen			mg/l	2.33	NA	2.52	4.63	1.34	NA	2.89	NA	1.15	4.42	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA
ORP			mV	-52	NA	-0.4	7	43.7	NA	20.7	NA	14.1	70	NS	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3g
MW5
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				25-Sep-97	15-Jan-98	26-Mar-98	03-Sep-98	29-Dec-98	08-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	16-Jul-02	03-Dec-02	18-Mar-03	18-Jul-03	13-Nov-03	21-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**																	
GRO			mg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
DRO			mg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
VOC Parameters																				
Benzene	5	0.5	µg/l	**2**	**1**	X	X	**0.52**	0.3	0.41	< 0.495*	0.54	NS	< 0.45	NS	NS	< 0.30	NS	< 0.14	< 0.14
Toluene	343	68.6	µg/l	13	X	X	1.5	X	X	X	< 0.5	< 0.4	NS	< 0.68	NS	NS	< 0.58	NS	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	X	X	X	X	X	X	X	< 0.5	< 0.5	NS	< 0.82	NS	NS	< 0.60	NS	< 0.40	< 0.40
Xylenes (mixed isomers)	620	124	µg/l	X	X	X	X	X	X	X	< 0.5	< 0.4	NS	< 1.7	NS	NS	< 1.2	NS	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	X	X	X	X	X	< 0.3	< 0.3	NS	< 0.43	NS	NS	< 0.58	NS	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	X	X	X	X	X	X	X	< 0.5	< 0.4	NS	< 0.94	NS	NS	< 0.66	NS	< 0.40	< 0.40
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	< 0.58	NS	< 0.47	< 0.47
n-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Methylene Chloride			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
1,2,4-Trichlorobenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Dichlorodifluoromethane			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
PAH Parameters																				
Anthracene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Fluorene	400	80	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Indeno(1,2,3-cd)Pyrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Phenanthrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Pyrene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Benzo(a)Anthracene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Benzo(b)Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Benzo(ghi)Perylene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Benzo(k)Fluoranthene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Chrysene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
1-Methyl Naphthalene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
2-Methyl Naphthalene			µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Inorganics (mg/l)																				
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Nitrate (as N)	10	2	mg/l	0.01	NA	NA	X	X	X	0.48	< 0.3	< 0.3	NS	NA	NS	NS	NA	NS	NA	NA
Sulfate	250	125	mg/l	4	NA	NA	16	23	14	12.9	13.4	16.6	NS	NA	NS	NS	NA	NS	NA	NA
Iron (filtered)	0.3	0.15	mg/l	**0.19**	NA	NA	**0.27**	0.092	0.075	**0.367**	**0.188**	0.126	NS	NA	NS	NS	NA	NS	NA	NA
Field Measurements																				
Temperature			°F	54.79	43.69	43.03	59.38	NA	42.27	NA	57.06	55.26	NS	NA	NS	NS	NA	NS	NA	NA
Conductivity			µS/cm	671	431	397	292	NA	382	NA	117	364	NS	NA	NS	NS	NA	NS	NA	NA
pH				NA	7.35	6.79	6.77	NA	7.27	NA	6.29	6.86	NS	NA	NS	NS	NA	NS	NA	NA
Dissolved Oxygen			mg/l	2.56	2.13	1.63	1.6	NA	2.96	NA	3.28	2.54	NS	NA	NS	NS	NA	NS	NA	NA
ORP			mV	-68.8	128.6	-10.8	1.1	NA	169.4	NA	161.2	57.7	NS	NA	NS	NS	NA	NS	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3h
MW6
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				29-Dec-98	08-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	16-Jul-02	03-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	21-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**													
GRO			mg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
DRO			mg/l	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
VOC Parameters																
Benzene	5	0.5	µg/l	X	X	X	< 0.2	< 0.15	NS	< 0.45	NS	NS	< 0.30	NS	< 0.14	< 0.14
Toluene	343	68.6	µg/l	0.27	X	X	< 0.5	< 0.4	NS	< 0.68	NS	NS	< 0.58	NS	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	X	X	X	< 0.5	< 0.5	NS	< 0.82	NS	NS	< 0.60	NS	< 0.40	< 0.40
Xylenes (mixed isomers)	620	124	µg/l	X	X	X	< 0.5	< 0.4	NS	< 1.7	NS	NS	< 1.2	NS	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	X	< 0.3	< 0.3	NS	< 0.43	NS	NS	< 0.58	NS	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)			µg/l	X	X	X	< 0.5	< 0.4	NS	< 0.94	NS	NS	< 0.66	NS	< 0.40	< 0.40
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	< 0.58	NS	< 0.47	< 0.47
n-Butylbenzene			µg/l	0.3	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Methylene Chloride			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
1,2,4-Trichlorobenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Dichlorodifluoromethane			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Inorganics (mg/l)																
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Nitrate (as N)	10	2	mg/l	0.4	1	1.19	0.897	0.92	NS	NA	NS	NS	NA	NS	NA	NA
Sulfate	250	125	mg/l	**160**	5.1	2.06	14.8	15.9	NS	NA	NS	NS	NA	NS	NA	NA
Iron (filtered)	0.3	0.15	mg/l	**0.61**	0.02	0.106	0.241	0.548	NS	NA	NS	NS	NA	NS	NA	NA
Field Measurements																
Temperature			°F	NA	42.6	NA	59.14	56.43	NS	NA	NS	NS	NA	NS	NA	NA
Conductivity			µS/cm	NA	2319	NA	93	126	NS	NA	NS	NS	NA	NS	NA	NA
pH				NA	6.82	NA	9.97	9.13	NS	NA	NS	NS	NA	NS	NA	NA
Dissolved Oxygen			mg/l	NA	8.79	NA	6.8	6.52	NS	NA	NS	NS	NA	NS	NA	NA
ORP			mV	NA	203.8	NA	53.1	83.6	NS	NA	NS	NS	NA	NS	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3i
MW7
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				29-Dec-98	08-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	16-Jul-02	03-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	21-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**													
GRO			mg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
DRO			mg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
VOC Parameters																
Benzene	5	0.5	µg/l	NS	X	X	< 0.2	< 0.15	NS	< 0.45	NS	NS	< 0.30	NS	< 0.14	< 0.14
Toluene	343	68.6	µg/l	NS	X	X	< 0.5	< 0.4	NS	< 0.68	NS	NS	< 0.58	NS	0.56*	< 0.36
Ethylbenzene	700	140	µg/l	NS	X	X	< 0.5	< 0.5	NS	< 0.82	NS	NS	< 0.60	NS	< 0.40	< 0.40
Xylenes (mixed isomers)	620	124	µg/l	NS	X	X	< 0.5	< 0.4	NS	< 1.7	NS	NS	< 1.2	NS	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NS	X	X	< 0.3	< 0.3	NS	< 0.43	NS	NS	< 0.58	NS	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	NS	X	X	< 0.5	< 0.4	NS	< 0.94	NS	NS	< 0.66	NS	< 0.40	< 0.40
Naphthalene	40	8	µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	< 0.58	NS	< 0.47	< 0.47
n-Butylbenzene			µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
sec-Butylbenzene			µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
n-Propylbenzene			µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Isopropylbenzene			µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Methylene Chloride			µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
tert-Butylbenzene			µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
1,2,4-Trichlorobenzene			µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Dichlorodifluoromethane			µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Inorganics (mg/l)																
Lead	15	1.5	µg/l	NS	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Nitrate (as N)	10	2	mg/l	NS	X	X	< 0.3	< 0.3	NS	NA	NS	NS	NA	NS	NA	NA
Sulfate	250	125	mg/l	NS	6	2.06	2.49	2.08	NS	NA	NS	NS	NA	NS	NA	NA
Iron (filtered)	0.3	0.15	mg/l	NS	0.056	0.106	0.065	0.015	NS	NA	NS	NS	NA	NS	NA	NA
Field Measurements																
Temperature			°F	NS	49.8	NA	63.3	57.87	NS	NA	NS	NS	NA	NS	NA	NA
Conductivity			µS/cm	NS	918	NA	126	1,024	NS	NA	NS	NS	NA	NS	NA	NA
pH				NS	7.8	NA	6.81	7.5	NS	NA	NS	NS	NA	NS	NA	NA
Dissolved Oxygen			mg/l	NS	1.84	NA	4.63	3.95	NS	NA	NS	NS	NA	NS	NA	NA
ORP			mV	NS	-6.5	NA	109.8	141.4	NS	NA	NS	NS	NA	NS	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3j
MW8
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				29-Dec-98	08-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	16-Jul-02	03-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	21-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**													
GRO			mg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
DRO			mg/l	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
VOC Parameters																
Benzene	5	0.5	µg/l	X	X	X	< 0.2	< 0.15	NS	< 0.45	NS	NS	< 0.30	NS	< 0.14	< 0.14
Toluene	1,000	200	µg/l	X	X	X	< 0.5	< 0.4	NS	< 0.68	NS	NS	< 0.58	NS	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	X	X	X	< 0.5	< 0.5	NS	< 0.82	NS	NS	< 0.60	NS	< 0.40	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	X	X	X	< 0.5	< 0.4	NS	< 1.7	NS	NS	< 1.2	NS	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	X	< 0.3	< 0.3	NS	< 0.43	NS	NS	< 0.58	NS	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	X	X	X	< 0.5	< 0.4	NS	< 0.94	NS	NS	< 0.66	NS	< 0.40	< 0.40
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	< 0.58	NS	< 0.47	< 0.47
n-Butylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Methylene Chloride	5	0.5	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
1,2,4-Trichlorobenzene	70	14	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Dichlorodifluoromethane	1000	200	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Inorganics																
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Nitrate (as N)	10	2	mg/l	0.12	X	X	< 0.3	< 0.3	NS	NA	NS	NS	NA	NS	NA	NA
Sulfate	250	125	mg/l	16	22	32.8	30.2	31.6	NS	NA	NS	NS	NA	NS	NA	NA
Iron (filtered)	0.3	0.15	mg/l	**5.7**	**2.9**	**3.25**	**3.15**	**1.87**	NS	NA	NS	NS	NA	NS	NA	NA
Field Measurements																
Temperature			°F	NA	44.96	NA	56.43	58.76	NS	NA	NS	NS	NA	NS	NA	NA
Conductivity			µS/cm	NA	2109	NA	2,616	2,608	NS	NA	NS	NS	NA	NS	NA	NA
pH				NA	7.41	NA	6.84	6.13	NS	NA	NS	NS	NA	NS	NA	NA
Dissolved Oxygen			mg/l	NA	6.02	NA	3.47	5.46	NS	NA	NS	NS	NA	NS	NA	NA
ORP			mV	NA	185.4	NA	-2.3	156.1	NS	NA	NS	NS	NA	NS	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3k
MW9
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				29-Dec-98	8-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	05-Dec-01	16-Jul-02	03-Dec-02	3-Dec-02	08-Dec-02	18-Mar-03
Parameter	**ES**	**PAL**	**Units**												
GRO			mg/l	2700	NA	NA	NA	NA	NS	**RW1**	NA	**RW3**	NA	**RW2**	NA
DRO			mg/l	NA	NA	NA	NA	NA	NS	**RW2**	NA	**Pump**	NA	**Pump**	NA
VOC Parameters										**RW3**		**Turned**		**Turned**	
Benzene	5	0.5	µg/l	**1,600**	**8,000**	**7,820**	**5,400**	**3,570**	**2,810**	**RW4**	**570**	**Off**	**340**	**Off**	**27**
Toluene	1,000	200	µg/l	53	**880**	**2,660**	**1,870**	**493**	154		10		2.3*		< 0.68
Ethylbenzene	700	140	µg/l	61	**1,800**	**932**	**660**	**415**	**472**		18		6.4		< 0.82
Xylenes (mixed isomers)	10,000	1,000	µg/l	234	**2,900**	**3,070**	**3,380**	**1,323**	**1,297**	**S**	161		41		< 1.7
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	**120**	X	X	**334**	< 30	< 6	**Y**	**14**		7.5		2.1
Trimethylbenzenes (mixed isomers)	480	96	µg/l	37.9	**690**	**761**	< 500	**325.2**	**428.5**	**S**	54		20		< 0.94
Naphthalene	40	8	µg/l	5.5	NA	NA	NA	< 80	**117**	**T**	NA		**13**		3.4
n-Butylbenzene			µg/l	1.4	NA	NA	NA	NA	NA	**E**	NA		NA		NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	**M**	NA		NA		NA
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NA		NA		NA		NA
Isopropylbenzene			µg/l	3.2	NA	NA	NA	NA	NA	**S**	NA		NA		NA
Methylene Chloride	5	0.5	µg/l	X	NA	NA	NA	NA	NA	**T**	NA		NA		NA
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	**A**	NA		NA		NA
1,2,4-Trichlorobenzene	70	14	µg/l	X	NA	NA	NA	NA	NA	**R**	NA		NA		NA
Dichlorodifluoromethane	1000	200	µg/l	X	NA	NA	NA	NA	NA	**T**	NA		NA		NA
Inorganics (mg/l)										**U**					
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NA	**P**	NA		NA		NA
Nitrate (as N)	10	2	mg/l	0.12	X	X	< 0.3	< 0.3	NA		NA		NA		NA
Sulfate	250	125	mg/l	11	8.3	2.09	< 1.5	1.58	NA		NA		NA		NA
Iron (filtered)	0.3	0.15	mg/l	**1.2**	**20**	**22.8**	**21.5**	**11.9**	NA		NA		NA		NA
Field Measurements															
Temperature			°F	NA	46.17	NA	54.6	56.53	NA		NA		NA		NA
Conductivity			µS/cm	NA	443	NA	515	484	NA		NA		NA		NA
pH				NA	7.37	NA	6.71	6.49	NA		NA		NA		NA
Dissolved Oxygen			mg/l	NA	2.86	NA	1.1	3.58	NA		NA		NA		NA
ORP			mV	NA	82.7	NA	-133	-21.6	NA		NA		NA		NA

				15-Jul-03	22-Dec-03	30-Mar-04	13-Nov-03	30-Mar-04	5-May-04	21-Jul-04	30-Oct-04	22-Mar-05	20-Apr-05	20-Jul-05	30-Nov-05
Parameter	**ES**	**PAL**	**Units**												
GRO			mg/l	NA	**RW1**	**RW4**	NA	NA	NA	NA	**RW4**	NA	NA	NA	NA
DRO			mg/l	NA	**RW4**	**Pump**	NA	NA	NA	NA	**Pump**	NA	NA	NA	NA
VOC Parameters					**Pumps**	**Turned**					**Turned**				
Benzene	5	0.5	µg/l	**39**	**Turned**	**On**	**15**	**5.1**	**20**	**38**	**Off**	**47**	**74**	**51**	**81**
Toluene	1,000	200	µg/l	< 0.58	**Off**		< 0.58	< 0.36	< 0.36	0.52*		0.61*	1.1*	0.64*	1.1*
Ethylbenzene	700	140	µg/l	< 0.60			< 0.60	< 0.40	< 0.40	< 0.40		< 0.40	< 0.40	< 0.40	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 1.2	**S**	**S**	< 1.2	< 0.74	< 0.74	1.68*	**S**	2.1*	6.85*	2.2*	7.4
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	2.1	**Y**	**Y**	2.4	5	5.2	4.2	**Y**	6.7	7.6	6.9	8.6
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.66	**S**	**S**	< 0.66	< 0.40	< 0.40	< 0.40	**S**	0.47*	1.9	0.42*	1.8
Naphthalene	40	8	µg/l	1.3*	**T**	**T**	< 0.58	< 0.47	< 0.47	< 0.47	**T**	< 0.47	1.3*	0.72*	1.1*
n-Butylbenzene			µg/l	NA	**E**	**E**	NA	NA	NA	NA	**E**	NA	NA	NA	NA
sec-Butylbenzene			µg/l	NA	**M**	**M**	NA	NA	NA	NA	**M**	NA	NA	NA	NA
n-Propylbenzene			µg/l	NA			NA	NA	NA	NA		NA	NA	NA	NA
Isopropylbenzene			µg/l	NA	**O**	**R**	NA	NA	NA	NA	**S**	NA	NA	NA	NA
Methylene Chloride	5	0.5	µg/l	NA	**F**	**E**	NA	NA	NA	NA	**H**	NA	NA	NA	NA
tert-Butylbenzene			µg/l	NA	**F**	**S**	NA	NA	NA	NA	**U**	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	14	µg/l	NA		**T**	NA	NA	NA	NA	**T**	NA	NA	NA	NA
Dichlorodifluoromethane	1000	200	µg/l	NA	**F**	**A**	NA	NA	NA	NA	**D**	NA	NA	NA	NA
Inorganics (mg/l)					**O**	**R**					**O**				
Lead	15	1.5	µg/l	NA	**R**	**T**	NA	NA	NA	NA	**W**	NA	NA	NA	NA
Nitrate (as N)	10	2	mg/l	NA			NA	NA	NA	NA	**N**	NA	NA	NA	NA
Sulfate	250	125	mg/l	NA	**W**		NA	NA	NA	NA		NA	NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l	NA	**I**		NA	NA	NA	NA		NA	NA	NA	NA
Field Measurements					**N**										
Temperature			°F	NA	**T**		NA	NA	NA	NA		NA	NA	NA	NA
Conductivity			µS/cm	NA	**E**		NA	NA	NA	NA		NA	NA	NA	NA
pH				NA	**R**		NA	NA	NA	NA		NA	NA	NA	NA
Dissolved Oxygen			mg/l	NA			NA	NA	NA	NA		NA	NA	NA	NA
ORP			mV	NA			NA	NA	NA	NA		NA	NA	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3l
MW 10
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				29-Dec-98	8-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	05-Dec-01	16-Jul-02	03-Dec-02	3-Dec-02	08-Dec-02
Parameter	**ES**	**PAL**	**Units**											
GRO			mg/l	3000	NA	NA	NA	NA	NA	**RW1**	NA	**RW3**	NA	**RW2**
DRO			mg/l	NA	NA	NA	NA	NA	NA	**RW2**	NA	**Pump**	NA	**Pump**
VOC Parameters										**RW3**		**Turned**		**Turned**
Benzene	5	0.5	µg/l	**56**	**1,100**	**166**	**218**	**253**	**293**	**RW4**	**23**	**Off**	**8.4**	**Off**
Toluene	1,000	200	µg/l	100	X	**552**	**796**	**429**	**291**		11		< 0.68	
Ethylbenzene	700	140	µg/l	67	86	**209**	**299**	**296**	**368**		22		< 0.82	
Xylenes (mixed isomers)	10,000	1,000	µg/l	361	46	406.8	601	508.9	797.2	**S**	74		< 1.7	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	34	X	< 15	< 6	< 3	**Y**	2.7		1.8	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**247**	35	**368**	**530**	**565**	**777**	**S**	68		< 0.94	
Naphthalene	40	8	µg/l	**49**	NA	NA	NA	**190**	**179**	**T**	NA		< 0.89	
n-Butylbenzene			µg/l	47	NA	NA	NA	NA	NA	**E**	NA		NA	
sec-Butylbenzene			µg/l	12	NA	NA	NA	NA	NA	**M**	NA		NA	
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NA		NA		NA	
Isopropylbenzene			µg/l	19	NA	NA	NA	NA	NA	**S**	NA		NA	
Methylene Chloride	5	0.5	µg/l	X	NA	NA	NA	NA	NA	**T**	NA		NA	
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	**A**	NA		NA	
1,2,4-Trichlorobenzene	70	14	µg/l	X	NA	NA	NA	NA	NA	**R**	NA		NA	
Dichlorodifluoromethane	1000	200	µg/l	X	NA	NA	NA	NA	NA	**T**	NA		NA	
Inorganics (mg/l)										**U**				
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NA	**P**	NA		NA	
Nitrate (as N)	10	2	mg/l	X	X	X	< 0.3	< 0.3	NA		NA		NA	
Sulfate	250	125	mg/l	26	10	2.13	2.23	1.79	NA		NA		NA	
Iron (filtered)	0.3	0.15	mg/l	**1.2**	**55**	**14.7**	**14.7**	**14.4**	NA		NA		NA	
Field Measurements														
Temperature			°F	NA	49.01	NA	57.04	56.71	NA		NA		NA	
Conductivity			µS/cm	NA	259	NA	659	398	NA		NA		NA	
pH				NA	7.15	NA	6.29	6.46	NA		NA		NA	
Dissolved Oxygen			mg/l	NA	1.49	NA	2.94	6.71	NA		NA		NA	
ORP			mV	NA	-76.8	NA	-30.3	4.3	NA		NA		NA	

				25-Mar-03	15-Jul-03	13-Nov-03	22-Dec-03	30-Mar-04	30-Mar-04	11-May-04	30-Oct-04	20-Apr-05	20-Jul-05	30-Nov-05
Parameter	**ES**	**PAL**	**Units**											
GRO			mg/l	NA	NA	NA	**RW1**	**RW4**	NA	NA	**RW4**	NA	NA	NA
DRO			mg/l	NA	NA	NA	**RW4**	**Pump**	NA	NA	**Pump**	NA	NA	NA
VOC Parameters							**Pumps**	**Turned**			**Turned**			
Benzene	5	0.5	µg/l	**3.4**	**22**	< 0.3	**Turned**	**On**	**5.5**	**12**	**Off**	**11**	**5.3**	**23**
Toluene	1,000	200	µg/l	< 0.68	8.3	0.58	**Off**		0.46*	1.0*		< 0.36	0.94*	1.8
Ethylbenzene	700	140	µg/l	< 0.82	5.5	< 0.60			1.6	2.8		0.99	5.3	11
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 1.7	16	< 1.2	**S**	**S**	< 0.74	5.06	**S**	< 0.74	1.6*	0.83*
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	1.9	3.4	0.89*	**Y**	**Y**	1.5	0.93*	**Y**	< 0.36	0.36*	11
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.94	10.4	< 0.66	**S**	**S**	0.79*	0.92*	**S**	< 0.40	0.45*	0.41*
Naphthalene	40	8	µg/l	< 0.89	3.4*	< 0.58	**T**	**T**	< 0.47	1.8	**T**	< 0.47	< 0.47	NA
n-Butylbenzene			µg/l	NA	NA	NA	**E**	**E**	NA	NA	**E**	NA	NA	NA
sec-Butylbenzene			µg/l	NA	NA	NA	**M**	**M**	NA	NA	**M**	NA	NA	NA
n-Propylbenzene			µg/l	NA	NA	NA			NA	NA		NA	NA	NA
Isopropylbenzene			µg/l	NA	NA	NA	**O**	**R**	NA	NA	**S**	NA	NA	NA
Methylene Chloride	5	0.5	µg/l	NA	NA	NA	**F**	**E**	NA	NA	**H**	NA	NA	NA
tert-Butylbenzene			µg/l	NA	NA	NA	**F**	**S**	NA	NA	**U**	NA	NA	NA
1,2,4-Trichlorobenzene	70	14	µg/l	NA	NA	NA		**T**	NA	NA	**T**	NA	NA	NA
Dichlorodifluoromethane	1000	200	µg/l	NA	NA	NA	**F**	**A**	NA	NA	**D**	NA	NA	NA
Inorganics (mg/l)							**O**	**R**			**O**			
Lead	15	1.5	µg/l	NA	NA	NA	**R**	**T**	NA	NA	**W**	NA	NA	NA
Nitrate (as N)	10	2	mg/l	NA	NA	NA			NA	NA	**N**	NA	NA	NA
Sulfate	250	125	mg/l	NA	NA	NA	**W**		NA	NA		NA	NA	NA
Iron (filtered)	0.3	0.15	mg/l	NA	NA	NA	**I**		NA	NA		NA	NA	NA
Field Measurements							**N**							
Temperature			°F	NA	NA	NA	**T**		NA	NA		NA	NA	NA
Conductivity			µS/cm	NA	NA	NA	**E**		NA	NA		NA	NA	NA
pH				NA	NA	NA	**R**		NA	NA		NA	NA	NA
Dissolved Oxygen			mg/l	NA	NA	NA			NA	NA		NA	NA	NA
ORP			mV	NA	NA	NA			NA	NA		NA	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3m
MW11
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				29-Dec-98	8-Mar-99	17-May-99	19-Jul-99	13-Oct-99	14-Aug-00	16-Jul-02	3-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	22-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**													
GRO			mg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
DRO			mg/l	NA	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
VOC Parameters																
Benzene	5	0.5	µg/l	X	X	X	< 0.2	< 0.15	NS	< 0.45	NS	NS	< 0.30	NS	< 0.14	< 0.14
Toluene	343	68.6	µg/l	0.68	X	X	< 0.5	< 0.4	NS	< 0.68	NS	NS	< 0.58	NS	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	X	X	X	< 0.5	< 0.5	NS	< 0.82	NS	NS	< 0.60	NS	< 0.40	< 0.40
Xylenes (mixed isomers)	620	124	µg/l	X	X	X	< 0.5	< 0.4	NS	< 1.7	NS	NS	< 1.2	NS	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	X	< 0.3	< 0.3	NS	< 0.43	NS	NS	< 0.58	NS	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	X	X	X	< 0.5	< 0.4	NS	< 0.94	NS	NS	< 0.66	NS	< 0.40	< 0.40
Naphthalene	40	8	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	< 0.58	NS	< 0.47	< 0.47
n-Butylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Methylene Chloride	5	0.5	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
tert-Butylbenzene			µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
1,2,4-Trichlorobenzene	70	14	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Dichlorodifluoromethane	1000	200	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Inorganics (mg/l)																
Lead	15	1.5	µg/l	X	NA	NA	NA	NA	NS	NA	NS	NS	NA	NS	NA	NA
Nitrate (as N)	10	2	mg/l	X	X	X	< 0.3	< 0.3	NS	NA	NS	NS	NA	NS	NA	NA
Sulfate	250	125	mg/l	16	16	21.5	17.5	20.5	NS	NA	NS	NS	NA	NS	NA	NA
Iron (filtered)	0.3	0.15	mg/l	0.029	0.11	**0.201**	0.115	0.046	NS	NA	NS	NS	NA	NS	NA	NA
Field Measurements																
Temperature			°F	NA	47.37	NA	54.67	55.5	NS	NA	NS	NS	NA	NS	NA	NA
Conductivity			µS/cm	NA	758	NA	1,016	1,011	NS	NA	NS	NS	NA	NS	NA	NA
pH				NA	7.85	NA	7.07	6.41	NS	NA	NS	NS	NA	NS	NA	NA
Dissolved Oxygen			mg/l	NA	1.02	NA	2.66	5.84	NS	NA	NS	NS	NA	NS	NA	NA
ORP			mV	NA	-59.6	NA	-35.4	98.2	NS	NA	NS	NS	NA	NS	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3n
MW12s
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				14-Aug-00	16-Jul-02	3-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	22-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**								
GRO			mg/l	< 50	NA	NS	NS	NA	NS	NA	NA
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.15	< 0.45	NS	NS	< 0.30	NS	< 0.14	< 0.14
Toluene	1,000	200	µg/l	< 0.4	< 0.68	NS	NS	< 0.58	NS	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	< 0.5	< 0.82	NS	NS	< 0.60	NS	< 0.40	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 0.4	< 1.7	NS	NS	< 1.2	NS	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.3	< 0.43	NS	NS	< 0.58	NS	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.4	< 0.94	NS	NS	< 0.66	NS	< 0.40	< 0.40
Naphthalene	40	8	µg/l	< 0.8	NA	NS	NS	< 0.58	NS	< 0.47	< 0.47
Inorganics (mg/l)											
Lead	15	1.5	µg/l	NA	NA	NS	NS	NA	NS	NA	NA
Nitrate (as N)	10	2	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Sulfate	250	125	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Iron (filtered)	0.3	0.15	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Field Measurements											
Temperature			°F	NA	NA	NS	NS	NA	NS	NA	NA
Conductivity			µS/cm	NA	NA	NS	NS	NA	NS	NA	NA
pH				NA	NA	NS	NS	NA	NS	NA	NA
Dissolved Oxygen			mg/l	NA	NA	NS	NS	NA	NS	NA	NA
ORP			mV	NA	NA	NS	NS	NA	NS	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3o
MW12d
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				14-Aug-00	16-Jul-02	3-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	22-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**								
GRO			mg/l	< 50	NA	NS	NS	NA	NS	NA	NA
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.15	< 0.45	NS	NS	< 0.30	NS	< 0.14	< 0.14
Toluene	1,000	200	µg/l	< 0.4	< 0.68	NS	NS	< 0.58	NS	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	< 0.5	< 0.82	NS	NS	< 0.60	NS	< 0.40	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 0.4	< 1.7	NS	NS	< 1.2	NS	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.3	< 0.43	NS	NS	< 0.58	NS	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.4	< 0.94	NS	NS	< 0.66	NS	< 0.40	< 0.40
Naphthalene	40	8	µg/l	< 0.8	NA	NS	NS	< 0.58	NS	< 0.47	< 0.47
Inorganics (mg/l)											
Lead	15	1.5	µg/l	NA	NA	NS	NS	NA	NS	NA	NA
Nitrate (as N)	10	2	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Sulfate	250	125	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Iron (filtered)	0.3	0.15	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Field Measurements											
Temperature			°F	NA	NA	NS	NS	NA	NS	NA	NA
Conductivity			µS/cm	NA	NA	NS	NS	NA	NS	NA	NA
pH				NA	NA	NS	NS	NA	NS	NA	NA
Dissolved Oxygen			mg/l	NA	NA	NS	NS	NA	NS	NA	NA
ORP			mV	NA	NA	NS	NS	NA	NS	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3p
MW13s
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				14-Aug-00	16-Jul-02	3-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	22-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**								
GRO			mg/l	< 50	NA	NS	NS	NA	NS	NA	NA
VOC Parameters											
Benzene	5	0.5	µg/l	**5.92**	< 0.45	NS	NS	< 0.30	NS	< 0.14	< 0.14
Toluene	1,000	200	µg/l	< 0.4	< 0.68	NS	NS	< 0.58	NS	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	< 0.5	< 0.82	NS	NS	< 0.60	NS	< 0.40	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 0.4	< 1.7	NS	NS	< 1.2	NS	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	2.13	< 0.43	NS	NS	< 0.58	NS	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.4	< 0.94	NS	NS	< 0.66	NS	< 0.40	< 0.40
Naphthalene	40	8	µg/l	< 0.8	NA	NS	NS	< 0.58	NS	< 0.47	< 0.47
Inorganics (mg/l)											
Lead	15	1.5	µg/l	NA	NA	NS	NS	NA	NS	NA	NA
Nitrate (as N)	10	2	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Sulfate	250	125	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Iron (filtered)	0.3	0.15	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Field Measurements											
Temperature			°F	NA	NA	NS	NS	NA	NS	NA	NA
Conductivity			µS/cm	NA	NA	NS	NS	NA	NS	NA	NA
pH				NA	NA	NS	NS	NA	NS	NA	NA
Dissolved Oxygen			mg/l	NA	NA	NS	NS	NA	NS	NA	NA
ORP			mV	NA	NA	NS	NS	NA	NS	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate

ES exceeded ---------->	**BOLD**
PAL exceeded ---------->	**BOLD**

Table 3q
MW13d
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				14-Aug-00	24-Jul-02	3-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	22-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**								
GRO			mg/l	< 50	NA	NS	NS	NA	NS	NA	NA
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.15	< 0.45	NS	NS	< 0.30	NS	< 0.14	< 0.14
Toluene	1,000	200	µg/l	< 0.4	< 0.68	NS	NS	< 0.58	NS	< 0.36	< 0.36
Ethylbenzene	700	140	µg/l	< 0.5	< 0.82	NS	NS	< 0.60	NS	< 0.40	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 0.4	< 1.7	NS	NS	< 1.2	NS	< 0.74	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	4.47	< 0.43	NS	NS	< 0.58	NS	< 0.36	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.4	< 0.94	NS	NS	< 0.66	NS	< 0.40	< 0.40
Naphthalene	40	8	µg/l	< 0.8	NA	NS	NS	< 0.58	NS	< 0.47	< 0.47
Inorganics (mg/l)											
Lead	15	1.5	µg/l	NA	NA	NS	NS	NA	NS	NA	NA
Nitrate (as N)	10	2	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Sulfate	250	125	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Iron (filtered)	0.3	0.15	mg/l	NA	NA	NS	NS	NA	NS	NA	NA
Field Measurements											
Temperature			°F	NA	NA	NS	NS	NA	NS	NA	NA
Conductivity			µS/cm	NA	NA	NS	NS	NA	NS	NA	NA
pH				NA	NA	NS	NS	NA	NS	NA	NA
Dissolved Oxygen			mg/l	NA	NA	NS	NS	NA	NS	NA	NA
ORP			mV	NA	NA	NS	NS	NA	NS	NA	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3r
MW14
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				14-Aug-00	24-Jul-02	3-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	20-Jul-05
Parameter	**ES**	**PAL**	**Units**							
GRO			mg/l	< 50	NA	NS	NS	NA	NS	NA
VOC Parameters										
Benzene	5	0.5	µg/l	< 0.15	< 0.45	NS	NS	< 0.30	NS	< 0.14
Toluene	1,000	200	µg/l	< 0.4	< 0.68	NS	NS	< 0.58	NS	< 0.36
Ethylbenzene	700	140	µg/l	< 0.5	< 0.82	NS	NS	< 0.60	NS	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 0.4	< 1.7	NS	NS	< 1.2	NS	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.3	< 0.43	NS	NS	< 0.58	NS	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.4	< 0.94	NS	NS	< 0.66	NS	< 0.40
Naphthalene	40	8	µg/l	< 0.8	NA	NS	NS	< 0.58	NS	< 0.47
Inorganics (mg/l)										
Lead	15	1.5	µg/l	NA	NA	NS	NS	NA	NS	NA
Nitrate (as N)	10	2	mg/l	NA	NA	NS	NS	NA	NS	NA
Sulfate	250	125	mg/l	NA	NA	NS	NS	NA	NS	NA
Iron (filtered)	0.3	0.15	mg/l	NA	NA	NS	NS	NA	NS	NA
Field Measurements										
Temperature			°F	NA	NA	NS	NS	NA	NS	NA
Conductivity			µS/cm	NA	NA	NS	NS	NA	NS	NA
pH				NA	NA	NS	NS	NA	NS	NA
Dissolved Oxygen			mg/l	NA	NA	NS	NS	NA	NS	NA
ORP			mV	NA	NA	NS	NS	NA	NS	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3s
MW15
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				14-Aug-00	24-Jul-02	3-Dec-02	18-Mar-03	15-Jul-03	13-Nov-03	20-Jul-05
Parameter	**ES**	**PAL**	**Units**							
GRO			mg/l	< 50	NA	NS	NS	NA	NS	NA
VOC Parameters										
Benzene	5	0.5	µg/l	< 0.15	< 0.45	NS	NS	< 0.30	NS	< 0.14
Toluene	1,000	200	µg/l	< 0.4	< 0.68	NS	NS	< 0.58	NS	< 0.36
Ethylbenzene	700	140	µg/l	< 0.5	< 0.82	NS	NS	< 0.60	NS	< 0.40
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 0.4	< 1.7	NS	NS	< 1.2	NS	< 0.74
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.3	< 0.43	NS	NS	< 0.58	NS	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.4	< 0.94	NS	NS	< 0.66	NS	< 0.40
Naphthalene	40	8	µg/l	< 0.8	NA	NS	NS	< 0.58	NS	< 0.47
Inorganics (mg/l)										
Lead	15	1.5	µg/l	NA	NA	NS	NS	NA	NS	NA
Nitrate (as N)	10	2	mg/l	NA	NA	NS	NS	NA	NS	NA
Sulfate	250	125	mg/l	NA	NA	NS	NS	NA	NS	NA
Iron (filtered)	0.3	0.15	mg/l	NA	NA	NS	NS	NA	NS	NA
Field Measurements										
Temperature			°F	NA	NA	NS	NS	NA	NS	NA
Conductivity			µS/cm	NA	NA	NS	NS	NA	NS	NA
pH				NA	NA	NS	NS	NA	NS	NA
Dissolved Oxygen			mg/l	NA	NA	NS	NS	NA	NS	NA
ORP			mV	NA	NA	NS	NS	NA	NS	NA

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3t
RW1
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				05-Dec-01	23-Jan-02	06-Mar-02	13-Mar-02	27-Mar-02	09-Apr-02	28-Aug-02	04-Sep-02	19-Sep-02	09-Oct-02	23-Oct-02	28-Oct-02
Parameter	**ES**	**PAL**	**Units**												
VOC Parameters															
Benzene	5	0.5	µg/l	**3,800**	**3,400**	**3,000**	**1,900**	**1,900**	**1,700**	**720**	**670**	**580**	**460**	**350**	**180**
Toluene	1,000	200	µg/l	**860**	**940**	**1,900**	**640**	**1,100**	**920**	**460**	**480**	**400**	**380**	**250**	5.9
Ethylbenzene	700	140	µg/l	**580**	**410**	**500**	**270**	**340**	**320**	130	130	100	91	70	24
Xylenes (mixed isomers)	10,000	1,000	µg/l	**2,050**	**1,550**	**1,640**	830	**1,100**	860	320	319	241	228	172	42.4
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	**150**	**170**	**100**	**51**	**43**	**41**	**13**	9.2	8.4	8.6	7.2	4.5
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**750**	**460**	**450**	**236**	**280**	**246**	**98**	**104**	69	77	60	17.3
Naphthalene	40	8	µg/l	**100**	**79**	**130**	**60**	**78**	**71**	**31**	**32**	**26**	NA	**20**	7.6

				26-Nov-02	03-Dec-02	11-Dec-02	18-Dec-02	2-Jan-03	27-Jan-03	7-Feb-03	18-Feb-03	28-May-03	9-Jun-03	1-Jul-03	15-Jul-03
Parameter	**ES**	**PAL**	**Units**												
VOC Parameters															
Benzene	5	0.5	µg/l	**350**	**330**	**330**	**300**	**280**	**280**	**110**	**170**	**150**	**220**	**170**	**210**
Toluene	1,000	200	µg/l	**210**	180	180	150	110	100	2.3	14	51	120	96	130
Ethylbenzene	700	140	µg/l	67	53	57	49	36	33	9.7	15	23	40	23	31
Xylenes (mixed isomers)	10,000	1,000	µg/l	160	99	142	120	59	53	13.1*	19.5	50	104	51	78
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	5.3	5.7	4.4	6.8	5.2	5.1	2.9	3.5	6.2	4.9	5.1	4.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	53	24.1	51	46	15.5	14.4	6.3*	6.5*	19.9	34.3	12.7	25.4
Naphthalene	40	8	µg/l	**23**	**20**	**17**	**15**	**14**	**12**	4	6.5	**8.6**	**15**	**8.1**	**8.6**

				1-Aug-03	26-Feb-03	6-Mar-03	18-Mar-03	23-Apr-03	5-May-03	28-May-03	9-Jun-03	1-Jul-03	15-Jul-03	1-Aug-03	9-Sep-04
Parameter	**ES**	**PAL**	**Units**												
VOC Parameters															
Benzene	5	0.5	µg/l	**110**	**240**	**250**	**200**	**180**	**150**	**150**	**220**	**170**	**210**	**110**	**8.9**
Toluene	1,000	200	µg/l	20	89	92	78	81	19	51	120	96	130	20	0.43
Ethylbenzene	700	140	µg/l	12	29	30	27	25	14	23	40	23	31	12	1.4
Xylenes (mixed isomers)	10,000	1,000	µg/l	21.4	60	59	64	55	25.4	50	104	51	78	21.4	1.4*
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	2.9	4.3	4.6	5.6	6.4	4.1	6.2	4.9	5.1	4.2	2.9	< 0.36
Trimethylbenzenes (mixed isomers)	480	96	µg/l	7.7*	18.6	17.1	25	17.4	11.3	19.9	34.3	12.7	25.4	7.7*	1.43*
Naphthalene	40	8	µg/l	3.9	**12**	**12**	**9.5**	**9.2**	6.2	**8.6**	**15**	**8.1**	**8.6**	3.9	< 0.47

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3u
RW2
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				05-Dec-01	06-Mar-02	27-Mar-02	09-Apr-02	28-Aug-02	04-Sep-02	19-Sep-02
Parameter	**ES**	**PAL**	**Units**							
VOC Parameters										
Benzene	5	0.5	µg/l	**150**	**1,500**	**1,100**	**1,000**	**220**	**440**	**370**
Toluene	1,000	200	µg/l	14	46	27	24	5.9	8.1	6.7
Ethylbenzene	700	140	µg/l	66	**200**	100	100	20	28	34
Xylenes (mixed isomers)	10,000	1,000	µg/l	54	720	390	370	28.8	92	61
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	6.3	**70**	**36**	**34**	7.8	11	9.9
Trimethylbenzenes (mixed isomers)	480	96	µg/l	27.5	**190**	**99**	**104**	7.8	33.6	11.5
Naphthalene	40	8	µg/l	NS	**54**	**32**	**30**	7.5	**13**	**12**

				09-Oct-02	23-Oct-02	26-Nov-02	03-Dec-02	11-Dec-02	18-Dec-02
Parameter	**ES**	**PAL**	**Units**						
VOC Parameters									
Benzene	5	0.5	µg/l	**390**	**140**	**7.4**	**2.8**	**3.8**	**2.7**
Toluene	1,000	200	µg/l	350	1.9*	< 0.68	< 0.68	< 0.68	< 0.68
Ethylbenzene	700	140	µg/l	86	13	< 0.82	< 0.82	1.7*	2.5*
Xylenes (mixed isomers)	10,000	1,000	µg/l	243	23.1	2.0*	< 1.7	< 1.7	< 1.7
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	7.6	5.7	1.8	1.3*	1.0*	1.3*
Trimethylbenzenes (mixed isomers)	480	96	µg/l	82	11.3	< 0.94	< 0.94	< 0.94	< 0.94
Naphthalene	40	8	µg/l	NS	5.5	0.97*	< 0.89	< 0.89	0.93

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3v
RW3
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				05-Dec-01	28-Oct-02	03-Dec-02
Parameter	**ES**	**PAL**	**Units**			
VOC Parameters						
Benzene	5	0.5	µg/l	**180**	< 0.45	< 0.45
Toluene	1,000	200	µg/l	24	< 0.68	< 0.68
Ethylbenzene	700	140	µg/l	22	< 0.82	< 0.82
Xylenes (mixed isomers)	10,000	1,000	µg/l	72	< 1.7	< 1.7
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	6.7	< 0.43	< 0.43
Trimethylbenzenes (mixed isomers)	480	96	µg/l	26.2	< 0.94	< 0.94
Naphthalene	40	8	µg/l	NS	< 0.89	< 0.89

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**

Table 3w
RW4
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				09-Oct-02	08-Oct-03	13-Nov-03	24-Nov-03	10-Dec-03		19-Apr-04	05-May-04	17-May-04	02-Jun-04	16-Jun-04
Parameter	**ES**	**PAL**	**Units**						**RW4**					
Benzene	5	0.5	µg/l	**910**	**2,500**	**4,200**	**4,700**	**5,100**	**Pump**	**4,700**	**8,000**	**6,000**	**6,700**	**8,200**
Toluene	1,000	200	µg/l	**2,200**	**8,100**	**11,000**	**13,000**	**12,000**	**Turned on**	**13,000**	**18,000**	**13,000**	**16,000**	**21,000**
Ethylbenzene	700	140	µg/l	**630**	**1,500**	**1,400**	**1,700**	**1,800**		**2,200**	**2,200**	**1,600**	**2,100**	**2,600**
Xylenes (mixed isomers)	10,000	1,000	µg/l	**2,680**	**7,100**	**7,600**	**9,100**	**8,900**	**System**	**10,200**	**10,500**	**8,700**	**10,200**	**13,200**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	**34**	**46***	**67***	**97***	**100***	**Restarted**	**93***	**130**	**77**	**120***	**110**
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**810**	**1,680**	**1,680**	**2,060**	**2,060**		**2,750**	**2,570**	**1,210**	**2,570**	**3,460**
Naphthalene	40	8	µg/l	NS	**330**	**380**	**440**	**440**		**490**	**490**	**400**	**480**	**640**

				08-Jul-04	21-Jul-04	9-Sep-04	16-Sep-04	5-Oct-04		07-Mar-05	20-Apr-05	20-Jul-05	30-Nov-05
Parameter	**ES**	**PAL**	**Units**						**RW4**				
Benzene	5	0.5	µg/l	**8,000**	**6,700**	**5,500**	**5,100**	**4,400**	**Pump**	**420**	**63**	**220**	**21**
Toluene	1,000	200	µg/l	**19,000**	**14,000**	**14,000**	**13,000**	**11,000**	**Turned off**	**700**	**200**	**370**	33
Ethylbenzene	700	140	µg/l	**2,100**	**1,400**	**1,900**	**1,700**	**960**		**280**	46	**180**	4.2
Xylenes (mixed isomers)	10,000	1,000	µg/l	**11,100**	**7,400**	**9,700**	**9,200**	**7,300**	**System**	**1,860**	440	**1,350**	367
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	**< 72**	**38***	**51***	**< 36**	**< 36**	**Shut down**	11	4	2.9	6.4
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**2,440**	**1,670**	**2,440**	**2,430**	**1,960**		**1,030**	**190**	**530**	**327**
Naphthalene	40	8	µg/l	**440**	**380**	**510**	**490**	**450**		**150**	**32**	**150**	**22**

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate

ES exceeded ---------->	**BOLD**
PAL exceeded ---------->	**BOLD**

Table 3x
Potable Well - Kozak (Old Well)
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				04-Oct-97	15-Jan-98	26-Mar-98	03-Sep-98	23-Sep-98	23-Sep-98	29-Dec-98	08-Mar-99	15-Jul-03	11-May-04	20-Jul-05
VOC Parameters	**ES**	**PAL**	**Units**					Maxim	US Filter					
Benzene	5	0.5	µg/l	X	X	X	**1.7**	**7.1**	**8.82**	X	X	< 0.19	< 0.41	< 0.076
Toluene	1,000	200	µg/l	X	X	X	X	X	X	X	X	0.41*	0.67	< 0.10
Ethylbenzene	700	140	µg/l	X	X	0.3	X	X	X	X	X	< 0.21	< 0.54	< 0.12
Xylenes (mixed isomers)	10,000	1,000	µg/l	X	X	1.4	X	X	X	X	X	< 0.53	< 1.8	< 0.30
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	X	X	X	X	X	X	< 0.20	< 0.61	< 0.10
Trimethylbenzenes (mixed isomers)	480	96	µg/l	0.2	X	0.1	X	X	X	X	X	< 0.57	< 0.97	< 0.11
Naphthalene	40	8	µg/l	0.2	X	X	X	X	X	X	X	< 0.26	< 0.74	0.093*
n-Butylbenzene			µg/l	X	X	X	X	X	X	X	X	< 0.43	< 0.93	< 0.094
sec-Butylbenzene			µg/l	X	X	X	X	X	X	X	X	< 0.26	< 0.89	< 0.11
n-Propylbenzene			µg/l	X	X	X	X	X	X	X	X	< 0.26	< 0.81	< 0.099
Isopropylbenzene			µg/l	X	X	X	X	X	X	X	X	< 0.19	< 0.59	< 0.11
Methylene Chloride	5	0.5	µg/l	X	X	X	X	X	X	X	X	< 0.29	< 0.43	< 0.089
tert-Butylbenzene			µg/l	X	X	X	X	X	X	X	X	< 0.19	< 0.97	< 0.11
1,2,4-Trichlorobenzene	70	14	µg/l	0.2	X	X	X	X	X	X	X	< 0.43	< 0.97	< 0.11
Dichlorodifluoromethane	1000	200	µg/l	1.1	X	0.5	X	X	X	1.5	0.88	< 0.25	< 0.99	< 0.14

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate

Table 3y
Potable Well - Former Restaurant
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				26-Mar-98
VOC Parameters	**ES**	**PAL**	**Units**	
Benzene	5	0.5	µg/l	X
Toluene	1,000	200	µg/l	X
Ethylbenzene	700	140	µg/l	X
Xylenes (mixed isomers)	10,000	1,000	µg/l	X
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X
1,2,4-Trimethylbenzene	480	96	µg/l	X
1,3,5-Trimethylbenzene	40	8	µg/l	X
Naphthalene	40	8	µg/l	NS
n-Butylbenzene			µg/l	NS
sec-Butylbenzene			µg/l	NS
n-Propylbenzene			µg/l	NS
Isopropylbenzene			µg/l	NS
Methylene Chloride	5	0.5	µg/l	NS
tert-Butylbenzene			µg/l	NS
1,2,4-Trichlorobenzene	70	14	µg/l	NS
Dichlorodifluoromethane	1000	200	µg/l	NS

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate

Table 3z
Potable Well - Motel
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

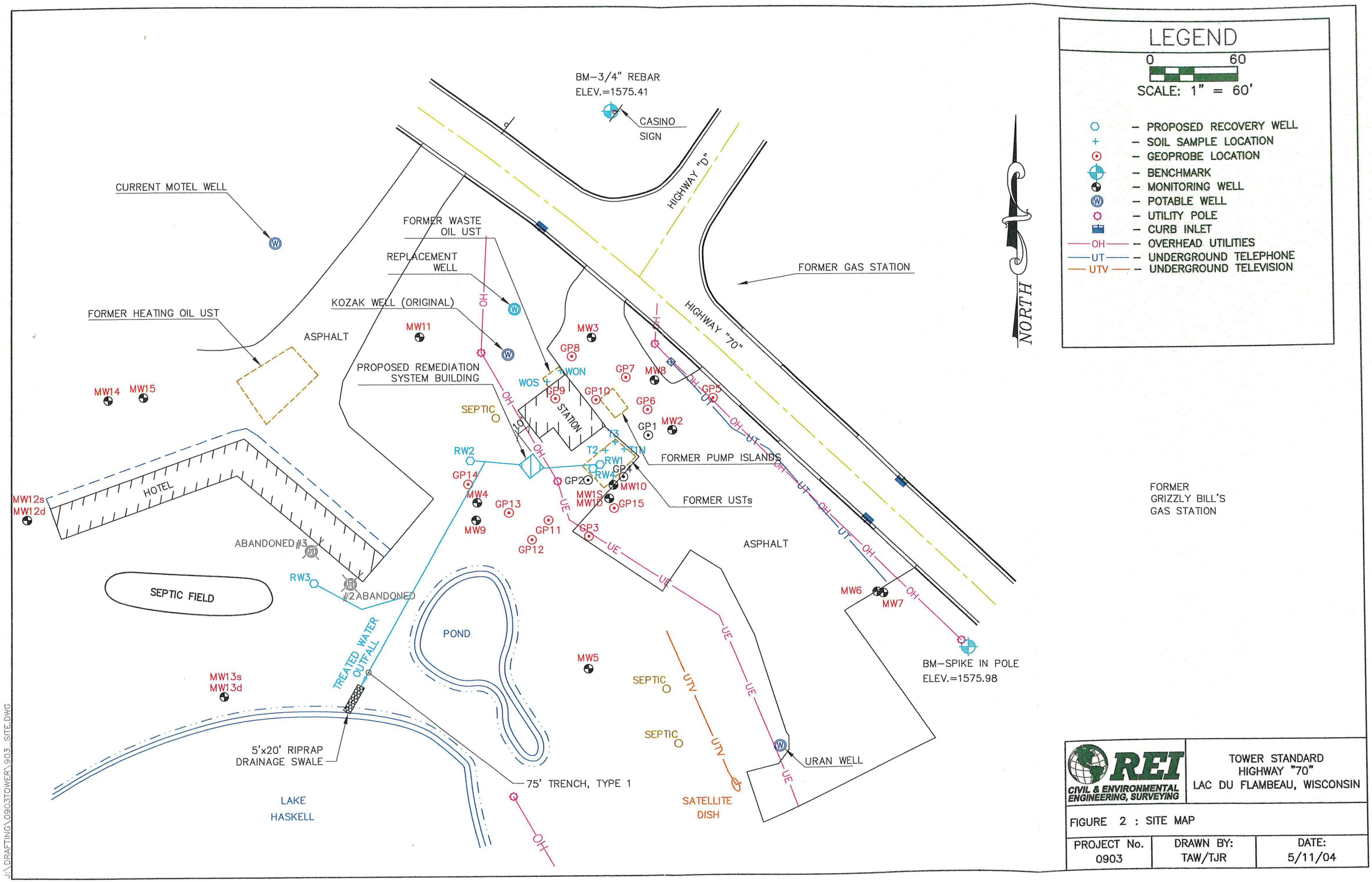
				11-Mar-99	17-May-99	7/15/2003	22-Jul-04	20-Jul-05
VOC Parameters	**ES**	**PAL**	**Units**					
Benzene	5	0.5	µg/l	X	X	< 0.19	< 0.21	< 0.076
Toluene	1,000	200	µg/l	X	X	< 0.17	< 0.22	< 0.10
Ethylbenzene	700	140	µg/l	X	X	< 0.21	< 0.30	< 0.12
Xylenes (mixed isomers)	10,000	1,000	µg/l	X	X	< 0.53	< 0.10	< 0.30
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	< 0.20	< 0.18	< 0.10
Trimethylbenzenes (mixed isomers)	480	96	µg/l	X	X	< 0.57	< 0.14	< 0.11
Naphthalene	40	8	µg/l	X	X	< 0.26	< 0.20	0.074*
n-Butylbenzene			µg/l	X	X	< 0.43	< 0.19	< 0.094
sec-Butylbenzene			µg/l	X	X	< 0.26	< 0.28	< 0.11
n-Propylbenzene			µg/l	X	X	< 0.26	< 0.30	< 0.099
Isopropylbenzene			µg/l	X	X	< 0.19	< 0.15	< 0.11
Methylene Chloride	5	0.5	µg/l	X	X	< 0.29	< 0.17	< 0.089
tert-Butylbenzene			µg/l	X	X	< 0.19	< 0.39	< 0.11
1,2,4-Trichlorobenzene	70	14	µg/l	X	X	< 0.43	< 0.22	< 0.11

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate

Table 3aa
Kozak Replacement
Summary of Groundwater Analytical Results
Tower Standard Service
Lac Du Flambeau, WI

				26-Mar-99	1-Apr-99	28-Apr-99	15-Jul-03	22-Jul-04	22-Jul-04	20-Jul-05
Parameter	**ES**	**PAL**	**Units**							
Benzene	5	0.5	µg/l	X	X	X	< 0.19	< 0.21	< 0.21	< 0.076
Toluene	1,000	200	µg/l	X	85.9	18.2	< 0.17	< 0.22	< 0.22	1.3
Ethylbenzene	700	140	µg/l	X	0.63	X	< 0.21	< 0.30	< 0.30	< 0.12
Xylenes (mixed isomers)	10,000	1,000	µg/l	X	0.89	X	< 0.53	< 0.10	< 0.10	< 0.30
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	X	X	X	< 0.20	< 0.18	< 0.18	0.16*
Trimethylbenzenes (mixed isomers)	480	96	µg/l	X	X	X	< 0.57	< 0.14	< 0.14	< 0.11
Naphthalene	40	8	µg/l	X	X	X	< 0.26	< 0.20	< 0.20	0.11*
Bromoform	4.4	0.44	µg/l	**16.4**	X	X	< 0.27	< 0.19	< 0.19	< 0.080
Bromodichloromethane	0.6	0.06	µg/l	**1.9**	X	X	< 0.21	< 0.28	< 0.28	< 0.11
Chlorodibromomethane			µg/l	4	X	X	< 0.10	< 0.30	< 0.30	< 0.083
Chloroform	6	0.6	µg/l	**28.1**	**20.7**	X	< 0.14	< 0.15	< 0.15	< 0.10
Methylene Chloride	5	0.5	µg/l	X	X	X	< 0.29	< 0.17	< 0.17	< 0.089
tert-Butylbenzene			µg/l	X	X	X	< 0.19	< 0.39	< 0.39	< 0.11

Notes:
All values are reported in µg/l (ppb), unless otherwise noted
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NS= Not Sampled
NA= Not Analyzed
ES exceeded ----------> **BOLD**
PAL exceeded ----------> **BOLD**
* = Concentration between Limit of Detection and Limit of Quantitation, considered an estimate



REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

TOWER STANDARD
HIGHWAY "70"
LAC DU FLAMBEAU, WISCONSIN

FIGURE 2 : SITE MAP

PROJECT No.	DRAWN BY:	DATE:
0903	TAW/TJR	5/11/04