



Wisconsin Public Service Corporation

700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

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January 23, 2020

Ms. Terese Van Donsel  
Project Manager  
United States Environmental Protection Agency  
77 W. Jackson Boulevard  
Chicago, Illinois 60604-3590



**RE: December 2019 Monthly Progress Report  
Campmarina Former Manufactured Gas Plant  
Sheboygan, Wisconsin  
Wisconsin Public Services Corporation  
CERCLA Docket No. V-W-07-C-862, CERCLIS ID – WIN000510058**

Dear Ms. Van Donsel:

Wisconsin Public Services Corporation (WPSC) is providing this monthly progress report for the WPSC Former Campmarina Manufactured Gas Plant (MGP) Site.

**1) PROGRESS MADE DURING THE PAST MONTH**

- Prepared and submitted November 2019 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by December 26, 2019.
- Completed fourth quarter field-measured parameter and groundwater sampling event on December 3, 2019.

**2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED**

- Groundwater analytical results summary tables from the December 3, 2019 sampling event and a site map have been included with this monthly progress report.

**3) PROJECTED WORK**

**WPSC Actions**

- Submit monthly progress report to USEPA by the 26th of the month.

**USEPA Actions**

- None

**4) PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED**

- None

Wisconsin Public Service Corporation | A subsidiary of the WEC Energy Group

5) ACTUAL OR PLANNED RESOLUTION OF PROBLEMS OR POTENTIAL PROBLEMS

- None

If you have any questions, please don't hesitate to contact me at (414) 221-3948 or [robert.paulson@wecenergygroup.com](mailto:robert.paulson@wecenergygroup.com).

Sincerely,

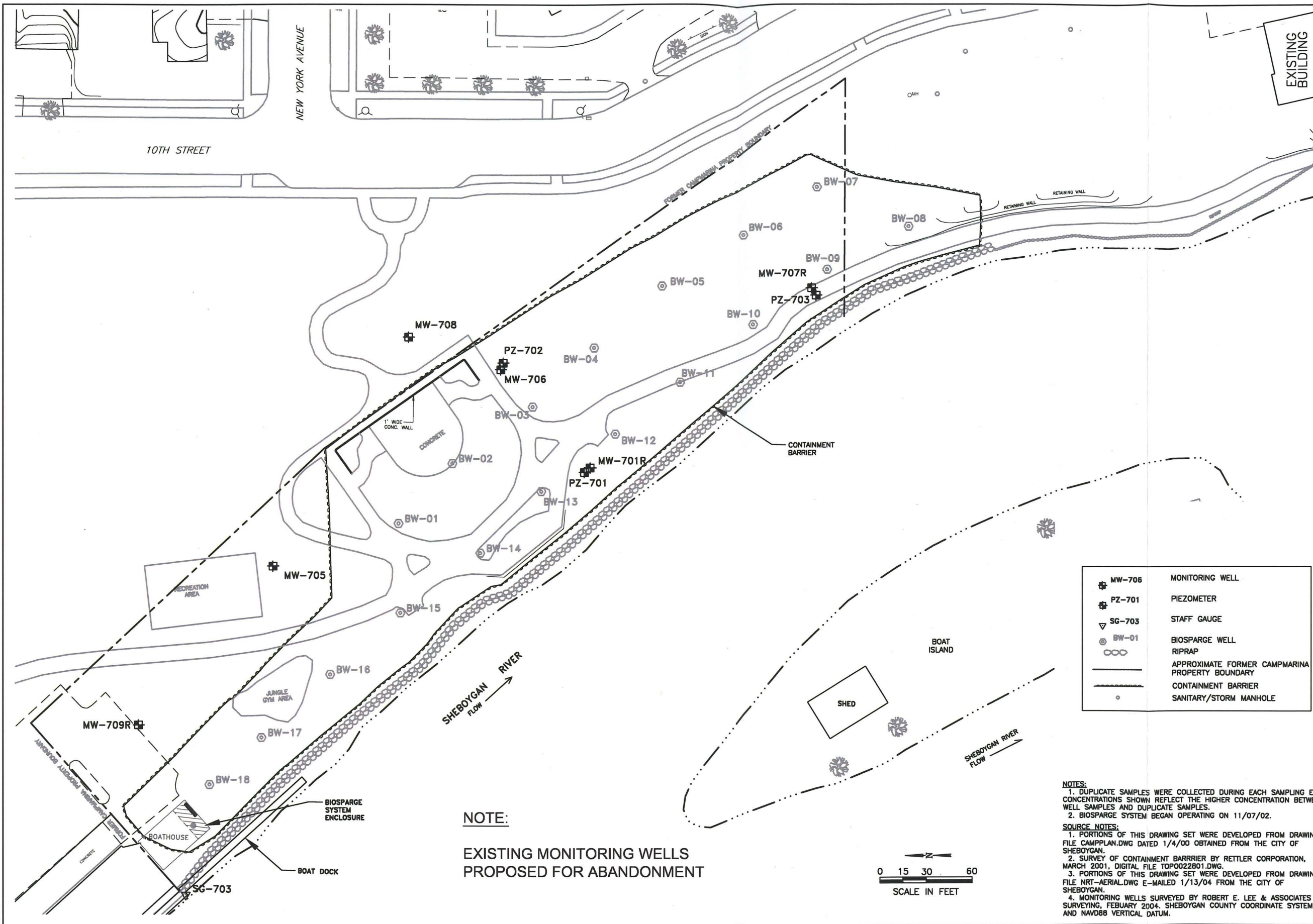


Robert Paulson

Enclosures:            Site Map  
                             December 2019 Groundwater Results Summary Tables

For distribution to:    Mr. John Feeney, WDNR (US Mail and email)  
                                 Mr. Andrew Cawrse, Ramboll (email)

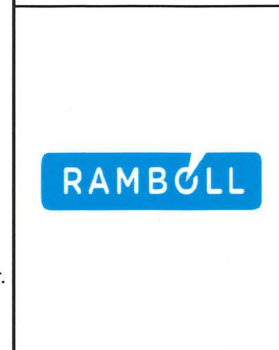
Jan 14, 2020 2:17pm PLOTTED BY: CAMRSEAG SAVED BY: ndraskovich  
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 IMAGES: Y:\ACADData\Projects\1313\B-1313-B-3.d-Monitoring Wells.dwg  
 XREFS:



DRAWN BY:	NWD	DATE:	04/09/13
CHECKED BY:	JJW	DATE:	04/09/13
APPROVED BY:	JMK	DATE:	05/17/13
DRAWING NO: 1313-8-B.3-d-Monitoring Wells			
REFERENCE: SEE INFO BLOCK			

**MONITORING WELLS**

BRRTS #02-60-000095  
 CAMP MARINA MANUFACTURED GAS PLANT  
 SHEBOYGAN, WISCONSIN



PROJECT NO.	67971
FIGURE NO.	1



**Table 1 - December 2019 Groundwater Sample Results**

Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina  
 732 Water Street, Sheboygan, Wisconsin  
 BRRTS#: 026000095 FID#: 460134950 USEPA#: WIN000510058

9-Digit Code	Sample Location	Sample Date	PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH									
			1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
			µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
Reporting Units:			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
Groundwater SL:			NS		NS		NS		NS		3,000		NS		0.2		0.2		NS		NS		0.2		NS		400		400		NS		100		3,000		250	
WI Groundwater PAL:			NS		NS		NS		NS		600		NS		0.02		0.02		NS		NS		0.02		NS		80		80		NS		10		NS		50	
Tap Water RSL:			1.1		36		530		530		1,800		0.03		0.025		0.25		120		2.5		25		0.025		800		290		0.25		0.17		1,800		120	
120319001	MW-709R	12/3/2019	<0.0063	U	0.0057	J	<0.0065	U	<0.0054	U	<0.011	U	<0.0081	U	<0.011	U	<0.0062	U	0.012	J	<0.0081	U	<0.014	U	<0.011	U	<0.011	U	<0.0086	U	<0.019	U	<0.020	U	<0.015	U	0.0098	J
120319002	MW-708	12/3/2019	<0.0064	U	<0.0053	U	<0.0066	U	<0.0054	U	<0.011	U	<0.0082	U	<0.011	U	<0.0062	U	<0.0074	U	<0.0082	U	<0.014	U	<0.011	U	<0.012	U	<0.0087	U	<0.019	U	<0.020	U	<0.015	U	<0.0083	U
120319003	MW-707R	12/3/2019	5.4		0.058		4.9		0.15		0.24		0.023	J	0.017	J	0.016	J	0.016	J	0.0094	J	0.029	J	<0.010	U	0.20		1.3		<0.018	U	7.3		0.64		0.35	
120319004	PZ-703	12/3/2019	0.16		0.032		0.43		0.014	J	<0.011	U	<0.0081	U	<0.011	U	<0.0062	U	<0.0073	U	<0.0081	U	<0.014	U	<0.011	U	<0.011	U	0.083		<0.019	U	0.040	J	0.046	J	0.0084	J
120319005/120319006 (N)	MW-701R	12/3/2019	124		112		85.7		1.0	J	7.0		0.44	J	<0.55	U	<0.30	U	<0.35	U	<0.39	U	<0.68	U	<0.52	U	2.6	J	18.9		<0.92	U	821		31.6		4.0	
120319007	PZ-701	12/3/2019	0.0093	J	0.0083	J	<0.0064	U	<0.0052	U	0.017	J	<0.0079	U	<0.011	U	<0.0060	U	<0.0071	U	<0.0079	U	<0.014	U	<0.011	U	<0.011	U	<0.0084	U	<0.019	U	0.043	J	<0.015	U	<0.0081	U
120319008	PZ-702	12/3/2019	<0.0066	U	0.0056	J	<0.0067	U	<0.0055	U	<0.012	U	<0.0084	U	<0.012	U	<0.0064	U	<0.0075	U	<0.0084	U	<0.014	U	<0.011	U	<0.012	U	<0.0089	U	<0.020	U	0.026	J	<0.015	U	<0.0085	U
120319009	MW-706	12/3/2019	154		163		7.9		111		5.3	J	<0.84	U	<1.2	U	1.3	J	0.97	J	1.3	J	4.7	J	<1.1	U	4.0	J	26.8		<2.0	U	1,280		30.8		6.7	
120319012	MW-705	12/3/2019	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
120319013	SG-703	12/3/2019	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
120319010	EB01	12/3/2019	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
120319011	TB01	12/3/2019	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
Total Number of Samples Analyzed:			8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8	
Number of Detections:			5		7		4		4		4		2		1		2		3		2		2		0		3		4		0		6		4		5	
Min:			0.0093		0.0056		0.43		0.014		0.017		0.023		0.017		0.016		0.012		0.0094		0.029		0		0.083		0		0.026		0.046		0.0084			
Max:			154		163		85.7		111		7		0.44		0.017		1.3		0.97		1.3		4.7		0		4		26.8		0		1,280		31.6		6.7	
Groundwater SL:			NS		NS		NS		NS		3,000		NS		0.2		0.2		NS		NS		0.2		NS		400		400		NS		100		3,000		250	
Number of Samples that Exceed Groundwater SL:			0		0		0		0		0		0		1		0		0		0		1		0		0		0		0		2		0		0	
WI Groundwater PAL:			NS		NS		NS		NS		600		NS		0.02		0.02		NS		NS		0.02		NS		80		80		NS		10		NS		50	
Number of Samples that Exceed WI Groundwater PAL:			0		0		0		0		0		0		1		0		0		0		2		0		0		0		0		2		0		0	
Tap Water RSL:			1		36		530		530		1,800		0.03		0.025		0.25		120		2.5		25		0.025		800		290		0.25		0.17		1,800		120	
Number of Samples that Exceed Tap Water RSL:			3		2		0		0		0		1		0		1		0		0		0		0		0		0		0		3		0		0	

Sorted by 9-digit Code

Analyte concentration exceeds the standard for:

**Bold** exceeds Groundwater Screening Level

Underlined exceeds Wisconsin Groundwater PAL

*Italic* exceeds Tap Water RSL

**Pink Highlighting** exceeds GW SL; results only exceeding the PAL and/or Tap Water criteria are not highlighted.

**Yellow Highlighting** detected results exceed analyte SL in one or more samples

Statistics exclude the quality control samples (Field and Trip Blanks)

Lab comments and definitions can be found in associated laboratory report(s).

Screening Levels:

Groundwater and Tap Water Screening Levels used on this table were presented in the Multi-Site Risk Assessment Framework (RAF) Addendum Revision 6 (Exponent, August 2017). Since that time, five (5) revisions of the RSLs have been published by EPA through November 2019. As a result of these five revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.

The Groundwater SL presented is the more conservative of the State and MCL values presented in the RAF Addendum Revision 6.

PAL from Chapter NR 140 for Groundwater Quality from Wisconsin Admin Code (Feb 2017)

PAL = Preventive Action Limit; results that attain or exceed this criteria are considered in exceedance of the PAL

MCLs = Maximum Contaminant Levels (MCL) national primary drinking water standards (U.S. EPA 2009) (<http://water.epa.gov/drink/contaminants/index.cfm>)

-- = Analysis not performed

(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol

< = Concentration is less than reported limit

µg/L = micrograms per liter

µS/cm = microsiemens per centimeter (aka micromhos per centimeter)

BTEX = Benzene, Toluene, Ethylbenzene and Xylene

Deg C = degrees Celsius

J = Estimated Concentration

MCL = Maximum Contaminant Level

mg/L = milligrams per liter

NS = No Screening Level

NTU = Nephelometric Turbidity Unit

PAH = Polycyclic Aromatic Hydrocarbon

PAL = Preventive Action Limit

RAF = Risk Assessment Framework

RNA = Remediation by Natural Attenuation (lab and field)

RSL = Regional Screening Level (EPA)

s.u. = standard units

SL = Screening Level

U = Concentration was not detected above the reported limit

VOC = Volatile Organic Compound



**Table 1 - December 2019 Groundwater Sample Results**

Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina  
 732 Water Street, Sheboygan, Wisconsin  
 BRRTS#: 0260000095 FID#: 460134950 USEPA#: WIN000510058

9-Digit Code	Sample Location	Sample Date	BTEX		BTEX		BTEX		BTEX		Inorganic		Inorganic		Organic		RNA		RNA		RNA		RNA		RNA		RNA	
			Benzene	Ethylbenzene	Toluene	Xylenes, Total	Nitrogen, NO2 + NO3, Total	Sulfate, Total	Methane	Dissolved oxygen	Groundwater, depth to	Oxidation Reduction Potential	pH, Field	Specific Conductance, Field	Temperature, Water	Turbidity, Quantitative												
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	feet	millivolts	s.u.	µS/cm	Deg C	NTUs										
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Groundwater SL:			5	700	800	2,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WI Groundwater PAL:			0.5	140	160	400	2,000	125,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tap Water RSL:			0.46	1.5	1,100	190	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
120319001	MW-709R	12/3/2019	<0.25 U	<0.22 U	0.22 J	<1.5 U	<59 U	8,300 J	3,750	0.14	4.20	-110.8	6.35	2036.1	15.61	8.18												
120319002	MW-708	12/3/2019	<0.25 U	<0.22 U	<0.17 U	<1.5 U	200 J	12,900	<0.66 U	5.31	8.45	45.9	6.48	1941.8	16.63	8.73												
120319003	MW-707R	12/3/2019	<b>269</b>	<b>285</b>	3.1 J	46.2	64 J	<b>196,000</b>	1,720	0.65	3.81	-37.5	6.40	1636.8	15.90	8.35												
120319004	PZ-703	12/3/2019	<b>279</b>	131	7.2 J	51.0	<59 U	800 J	2,120	0.20	3.97	-92.6	6.69	632.7	14.89	6.37												
120319005/120319006 (N)	MW-701R	12/3/2019	<b>2,920</b>	<b>245</b>	11.5 J	134	<59 U	2,900 J	10,800	0.10	5.76	-86.5	5.72	2326.1	16.35	12.98												
120319007	PZ-701	12/3/2019	<0.25 U	<0.22 U	<0.17 U	<1.5 U	110 J	112,000	11.1	0.37	4.82	-24.8	6.42	881.8	15.81	8.94												
120319008	PZ-702	12/3/2019	<0.25 U	<0.22 U	<0.17 U	<1.5 U	<59 U	1,500 J	12.7	0.53	5.71	-12.4	6.92	242.0	15.40	7.40												
120319009	MW-706	12/3/2019	<b>2,010</b>	<b>437</b>	<b>1,430</b>	<b>485</b>	260	118,000	2.6 J	0.12	7.43	-129.7	6.24	1205.8	16.79	5.74												
120319012	MW-705	12/3/2019	--	--	--	--	--	--	--	--	5.70	--	--	--	--	--												
120319013	SG-703	12/3/2019	--	--	--	--	--	--	--	--	0.45	--	--	--	--	--												
120319010	EB01	12/3/2019	<0.25 U	<0.22 U	<0.17 U	<1.5 U	--	--	--	--	--	--	--	--	--	--												
120319011	TB01	12/3/2019	<0.25 U	<0.22 U	0.21 J	<1.5 U	--	--	<0.66 U	--	--	--	--	--	--	--												

Total Number of Samples Analyzed:	8	8	8	8	8	8	8	8	8	10	8	8	8	8	8
Number of Detections:	4	4	5	4	4	8	7	8	8	10	8	8	8	8	8
Min:	269	131	0.22	46.2	64	800	2.6	0.1	0.45	-129.7	5.72	242	14.89	5.74	
Max:	2,920	437	1,430	485	260	196,000	10,800	5.31	8.45	45.9	6.92	2,326	16.79	12.98	
Groundwater SL:	5	700	800	2,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Number of Samples that Exceed Groundwater SL:	4	0	1	0	0	0	0	0	0	0	0	0	0	0	
WI Groundwater PAL:	0.5	140	160	400	2,000	125,000	NS	NS	NS	NS	NS	NS	NS	NS	
Number of Samples that Exceed WI Groundwater PAL:	4	3	1	1	0	1	0	0	0	0	0	0	0	0	
Tap Water RSL:	0.46	1.5	1,100	190	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Number of Samples that Exceed Tap Water RSL:	4	4	1	1	0	0	0	0	0	0	0	0	0	0	

Sorted by 9-digit Code

Analyte concentration exceeds the standard for:

<b>Bold</b>	exceeds Groundwater Screening Level
<u>Underlined</u>	exceeds Wisconsin Groundwater PAL
<i>Italic</i>	exceeds Tap Water RSL
<b>Pink Highlighting</b>	exceeds GW SL; results only exceeding the PAL and/or Tap Water criteria are not highlighted.
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 PAH = Polycyclic Aromatic Hydrocarbon  
 PAL = Preventive Action Limit  
 RAF = Risk Assessment Framework  
 RNA = Remediation by Natural Attenuation (lab and field)  
 RSL = Regional Screening Level (EPA)  
 s.u. = standard units  
 SL = Screening Level  
 U = Concentration was not detected above the reported limit  
 VOC = Volatile Organic Compound

[O:CMD 1/8/20, C:CMD 1/8/20, QC:AGC 1/9/20]