BRRTS #: 02600095
FID#: 46013495

Wisconsin Public Service Corporation
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.wisconsinpublicservice.com

August 22, 2019

Mr. Pablo Valentín
Project Manager
United States Environmental Protection Agency
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590

RE: July 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 Mr. Valentín:

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 June 2019 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by July 26, 2019.

2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

- Groundwater analytical results from the June 17, 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

5) ACTUAL OR PLANNED RESOLUTION OF PROBLEMS OR POTENTIAL PROBLEMS

- None

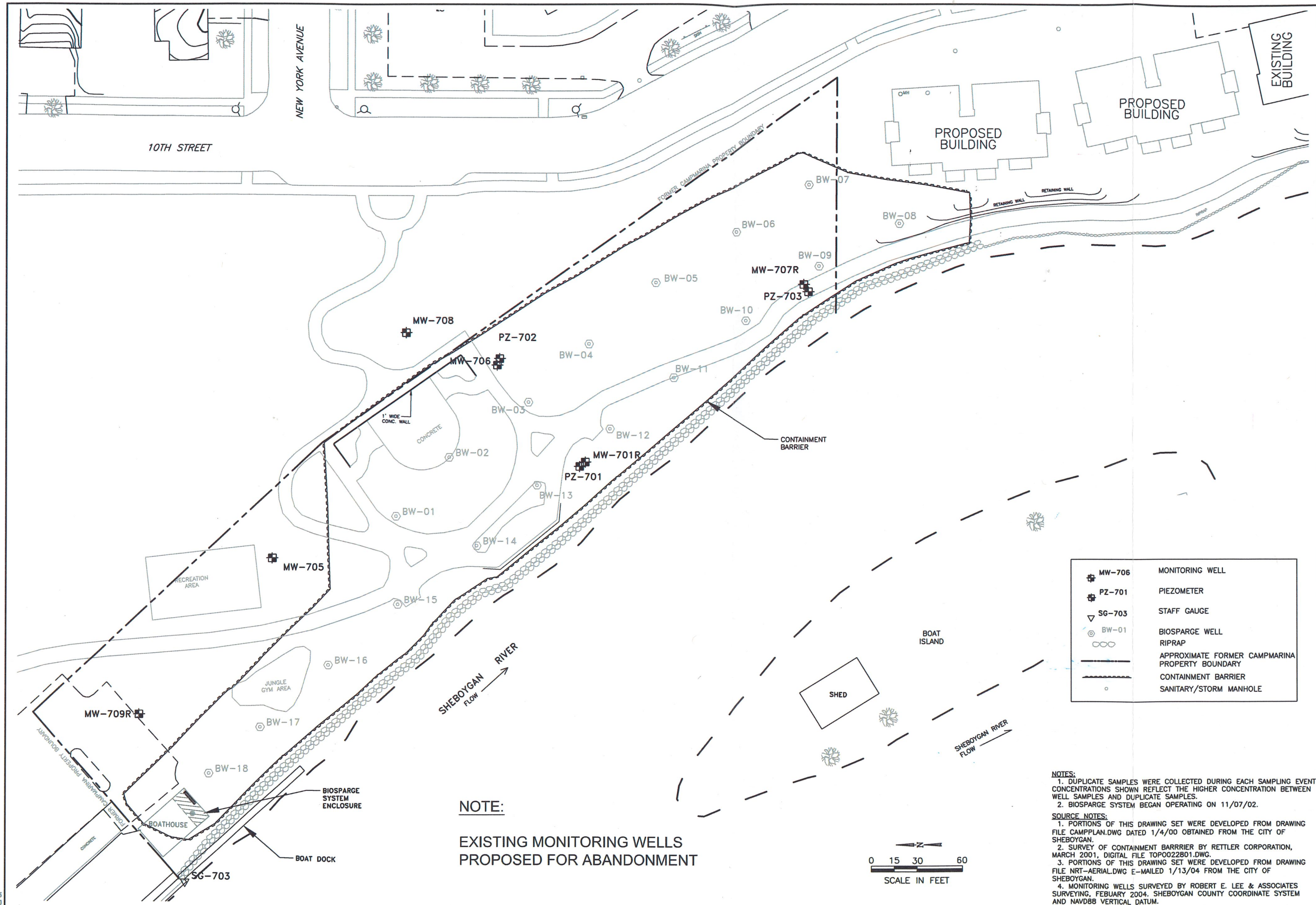
If you have any questions, please don't hesitate to contact me at (920) 433-2643 or brian.bartoszek@wecenergygroup.com.

Sincerely,

Brian F. Bartoszek, P.E.
Director Land Quality – Environmental

Enclosures: Site Map
June 2019 Groundwater Sample Results

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



NOTE:

EXISTING MONITORING WELLS
PROPOSED FOR ABANDONMENT

NOTES:
1. DUPLICATE SAMPLES WERE COLLECTED DURING EACH SAMPLING EVENT. CONCENTRATIONS SHOWN REFLECT THE HIGHER CONCENTRATION BETWEEN WELL SAMPLES AND DUPLICATE SAMPLES.
2. BIOSPARGE SYSTEM BEGAN OPERATING ON 11/07/02.

SOURCE NOTES:
1. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE CAMPPLAN.DWG DATED 1/4/00 OBTAINED FROM THE CITY OF SHEBOYGAN.
2. SURVEY OF CONTAINMENT BARRRIER BY RETTLER CORPORATION, MARCH 2001, DIGITAL FILE TOPO022801.DWG.
3. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE NRT-AERIAL.DWG E-MAILED 1/13/04 FROM THE CITY OF SHEBOYGAN.
4. MONITORING WELLS SURVEYED BY ROBERT E. LEE & ASSOCIATES SURVEYING, FEBUARY 2004. SHEBOYGAN COUNTY COORDINATE SYSTEM AND NAVD88 VERTICAL DATUM.

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

SITE MAP

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

OBG

PROJECT NO.
67971

FIGURE NO.
1

May 17, 2013 10:05am PLOTTED BY: ndraskovich SAVED BY: ndraskovich
Y:\ACADdata\Projects\13\1313\8\1313-8-B.3.d-Monitoring Wells.dwg Layout1
IMAGES: Y:\ACADdata\Projects\13\1313\A\mmr0001.tif;
XREFS:

Table 1 - June 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	PAH 1-Methylnaphthalene	PAH 2-Methylnaphthalene	PAH Acenaphthene	PAH Acenaphthylene	PAH Anthracene	PAH Benzo(a)anthracene	PAH Benzo(a)pyrene	PAH Benzo(b)fluoranthene	PAH Benzo(g,h,i)perylene	PAH Benzo(k)fluoranthene	PAH Chrysene	PAH Dibenz(a,h)anthracene	PAH Fluoranthene	PAH Fluorene	PAH Indeno(1,2,3-cd)pyrene	PAH Naphthalene	PAH Phenanthrene	PAH Pyrene	PAH Total PAHs (Lab Calc)
		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	µg/L	µg/L
			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	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	
		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**	**NS**
		WI Groundwater PAL:	NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50	NS
		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*	*NS*
061719001	MW-709R	06/17/2019	<0.0058 U	<0.0048 U	<0.0060 U	<0.0049 U	<0.010 U	<0.0074 U	<0.010 U	<0.0056 U	<0.0066 U	<0.0074 U	<0.013 U	<0.0098 U	<0.010 U	<0.0078 U	<0.017 U	<0.018 U	<0.014 U	<0.0075 U	0.032
061719002	MW-708	06/17/2019	<0.0062 U	<0.0052 U	<0.0064 U	<0.0052 U	<0.011 U	<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	<0.019 U	<0.015 U	<0.0081 U	0.024
061719003	MW-707R	06/17/2019	*107*	6.3	30.9	0.90	2.5	<0.24 U	<0.33 U	<0.18 U	<0.22 U	<0.24 U	<0.41 U	<0.32 U	0.48 J	12.1	<0.56 U	***398***	7.9	0.61 J	567
061719004	PZ-703	06/17/2019	0.070	0.012 J	0.44	0.014 J	0.018 J	<0.0078 U	<0.011 U	<0.0059 U	<0.0070 U	<0.0078 U	<0.013 U	<0.010 U	<0.011 U	0.10	<0.018 U	0.040 J	0.053 J	0.010 J	0.76
061719005/061719006 (N)	MW-701R	06/17/2019	*158*	*96.9*	101	<0.49 U	14.0	<0.74 U	<1.0 U	<0.56 U	<0.66 U	<0.74 U	<1.3 U	<0.98 U	2.3 J	21.2	<1.7 U	***994***	33.7	3.2 J	1,420
061719007	PZ-701	06/17/2019	0.0092 J	<0.0049 U	<0.0060 U	<0.0049 U	<0.010 U	<0.0075 U	<0.010 U	<0.0057 U	<0.0067 U	<0.0075 U	<0.013 U	<0.0099 U	0.011 J	<0.0079 U	<0.017 U	0.045 J	0.018 J	0.011 J	0.11
061719008	PZ-702	06/17/2019	0.014 J	<0.0049 U	<0.0060 U	<0.0049 U	<0.010 U	<0.0075 U	<0.010 U	<0.0057 U	<0.0067 U	<0.0075 U	<0.013 U	<0.0099 U	<0.011 U	<0.0079 U	<0.017 U	0.049 J	<0.014 U	<0.0076 U	0.074
061719009	MW-706	06/17/2019	*168*	*107*	6.9	71.7	5.8 J	<1.5 U	<2.1 U	<1.1 U	<1.3 U	<1.5 U	<2.6 U	<2.0 U	2.1 J	17.9	<3.5 U	***1,680***	20.7	2.9 J	2,080
061719010	Equipment Blank	06/17/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
061719011	Trip Blank	06/17/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total Number of Samples Analyzed:	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detections:	6	4	4	3	4	0	0	0	0	0	0	0	4	4	0	6	5	5	8	
Min:	0.0092	0.012	0.44	0.014	0.018	0	0	0	0	0	0	0	0.011	0.1	0	0.04	0.018	0.01	0.024	
Max:	168	107	101	71.7	14	0	0	0	0	0	0	0	2.3	21.2	0	1,680	33.7	3.2	2,080	
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	NS	
Number of Samples that Exceed Groundwater SL:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	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	NS	
Number of Samples that Exceed WI Groundwater PAL:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	
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	NS	
Number of Samples that Exceed Tap Water RSL:	*3*	*2*	0	0	0	0	0	0	0	0	0	0	0	0	0	*3*	0	0	0	

Sorted by 9-digit Code
Analyte concentration exceeds the standard for:

BOLD	**Groundwater SL**
Underline	WI Groundwater PAL
Italic	*Tap Water RSL*

Yellow Highlighting in Statistics = detected Exceedances
Pink highlighting in the table= a GW SL exceedance;
results only exceeding the PAL and/or Tap Water criteria are not highlighted.
Statistics exclude the quality control samples (Equipment and Trip Blanks)

-- = Analysis not performed
< = Concentration is less than reported limit
µS/cm = microsiemens per centimeter (aka micromhos per centimeter)
µg/L = micrograms per liter
BTEX = Benzene, Toluene, Ethylbenzene and Xylene
Deg C = degrees Celsius
J = Estimated Concentration
mg/L = milligrams per liter
(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol

NS = No Screening Level
NO2 + NO3 = nitrite plus nitrate
NTU = Nephelometric Turbidity Unit
PAH = Polycyclic Aromatic Hydrocarbon
PAL = Preventive Action Limit; results that attain or exceed this criteria are considered in exceedance of the PAL
RNA = Remediation by Natural Attenuation (lab and field)
RSL = Regional Screening Level
s.u. = standard units
SL = Screening Level
U = Concentration was not detected above the reported limit

Lab comments and definitions can be found in associated laboratory reports.

Underline Screening Levels:
Screening Levels used on this table were presented in the Multi-Site Risk Assessment Framework (RAF) Addendum Revision 6, issued in August 2017.
Since that time, three revisions of the RSLs have been published by EPA in November 2017, May 2018, and November 2018. As a result of these three 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 from the RAF Addendum Revision 6.
PAL from Chapter NR 140 for Groundwater Quality from Wisconsin Admin Code (Feb 2017)

Table 1 - June 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

			BTEX		BTEX		BTEX		BTEX		Inorganic		Inorganic		Organic		RNA		RNA		RNA		RNA		RNA		RNA		RNA	
9-digit Code	Sample Location	Sample Date	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		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	Result	Flag
		Groundwater SL:	**5**		**700**		**800**		**2,000**		**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	
		Tap Water RSL:	*0.46*		*1.5*		*1,100*		*190*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*	
061719001	MW-709R	06/17/2019	<0.25	U	<0.22	U	0.81	J	3.6		<95	U	5,500		3,540		0.27		4.34		-72.2		6.91		2122.1		10.90		29.86	
061719002	MW-708	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	110	J	50,400		<1.4	U	3.68		9.98		178.5		7.15		2841.3		11.40		33.20	
061719003	MW-707R	06/17/2019	***2,630***		***2,570***		30.2	J	*636*		<95	U	47,700		6,730		0.10		3.80		-178.8		6.93		1545.5		11.41		44.73	
061719004	PZ-703	06/17/2019	***363***		*209*		10.6	J	94.0		<95	U	<1,000	U	1,560		0.18		3.96		-156.6		7.22		574.8		12.28		1.45	
061719005/061719006 (N)	MW-701R	06/17/2019	***3,130***		*278*		13.0	J	152		<95	U	<5,000	U	12,300		0.09		5.02		-140.4		6.23		1825.6		11.22		739.55	
061719007	PZ-701	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	390		112,000		5.6		0.30		4.87		-31.1		7.11		633.8		13.61		75.91	
061719008	PZ-702	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	<95	U	1,500	J	<1.4	U	2.71		6.04		15.2		7.45		198.8		16.09		1.62	
061719009	MW-706	06/17/2019	***2,670***		*480*		***1,640***		*648*		<95	U	89,300		5.8		0.13		7.74		-162.2		7.02		1017.4		15.17		4.43	
061719010	Equipment Blank	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	--		--		--		--		--		--		--		--		--		--	
061719011	Trip Blank	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	--		--		<1.4	U	--		--		--		--		--		--		--	

Total Number of Samples Analyzed:	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detections:	4	4	5	5	2	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Min:	363	209	0.81	3.6	110	1,500	5.6	0.09	3.8	-178.8	6.23	198.8	10.9	1.45												
Max:	3,130	2,570	1,640	648	390	112,000	12,300	3.68	9.98	178.5	7.45	2,841	16.09	739.55												
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**	**1**	**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	4	1	2	0	0	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*	*2*	0	0	0	0	0	0	0	0	0	0												

[O:MGP 7/22/19, C: CMD 7/29/19, QC: EDP 7/30/19]

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