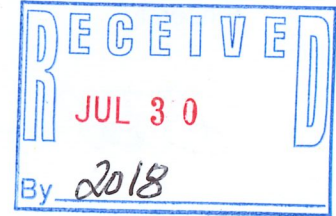




Wisconsin Public Service Corporation  
 700 North Adams Street  
 P.O. Box 19001  
 Green Bay, WI 54307-9001  
 www.wisconsinpublicservice.com

July 25, 2018

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



**RE: June 2018 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**

*BRRTSA: 0260000095  
 FID#: 460134950*

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 May 2018 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by June 26, 2018.
- Completed second quarter field-measured parameter and groundwater sampling event on June 4, 2018.

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

- Groundwater analytical results from the June 4, 2018 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**

- USEPA review of the Sheboygan-Campmarina River Operable Unit Five-Year Review Data Summary Technical Memorandum.

**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](mailto:brian.bartoszek@wecenergygroup.com).

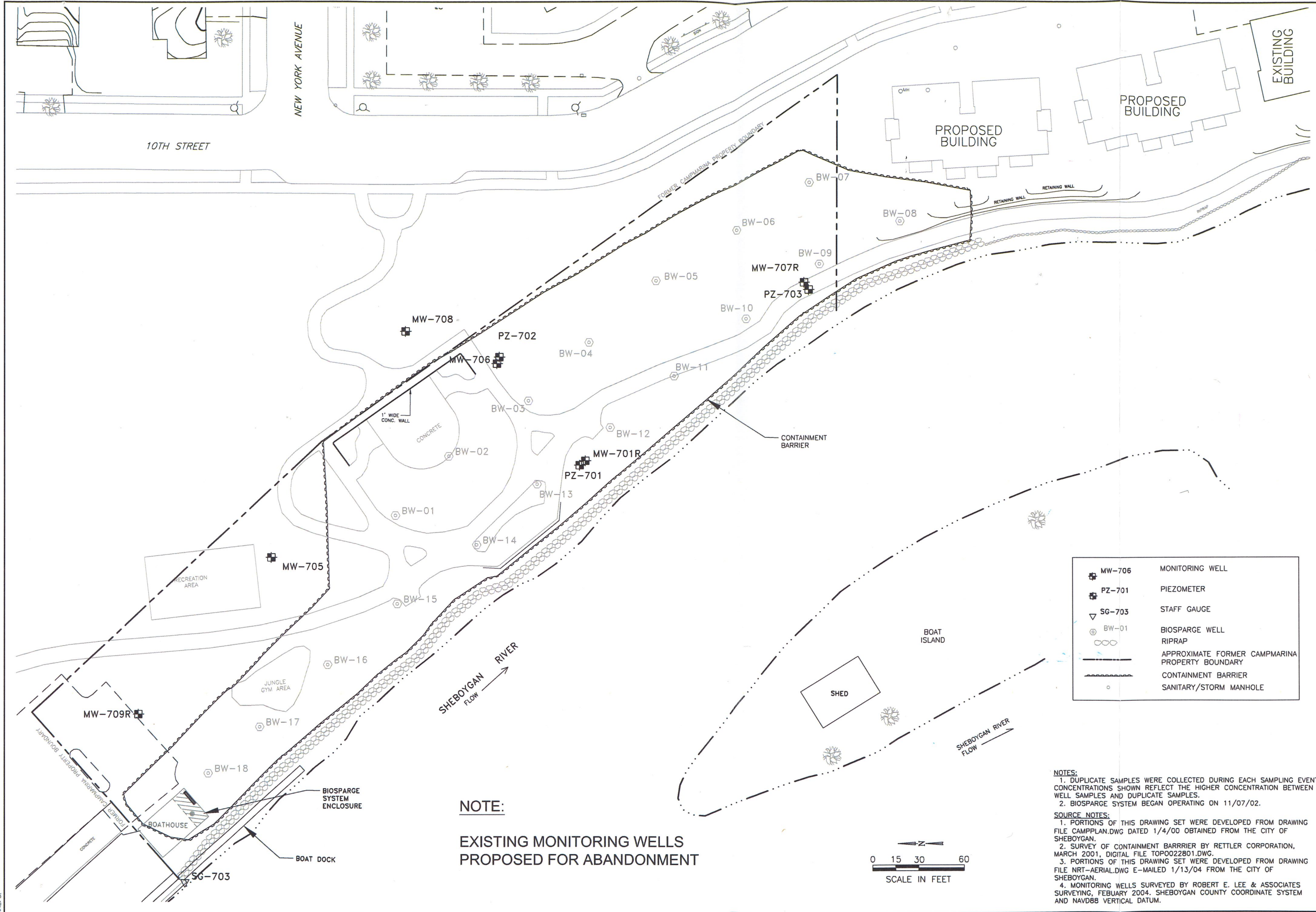
Sincerely,



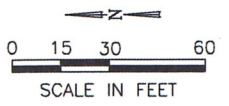
Brian F. Bartoszek, P.E.  
Manager – Remediation

Enclosures:            Site Map  
                              June 2018 Groundwater Results Summary Tables

For distribution to:    Mr. Pablo Valentín, USEPA (email)  
                                  Mr. John Feeney, WDNR (US Mail and email)



**NOTE:**  
**EXISTING MONITORING WELLS  
 PROPOSED FOR ABANDONMENT**



|  |        |   |
|--|--------|---|
|  | MW-706 | MONITORING WELL                                 |
|  | PZ-701 | PIEZOMETER                                      |
|  | SG-703 | STAFF GAUGE                                     |
|  | BW-01  | BIOSPARGE WELL                                  |
|  |        | RIPRAP  |
|  |        | APPROXIMATE FORMER CAMPMARINA PROPERTY BOUNDARY |
|  |        | CONTAINMENT BARRIER                             |
|  |        | SANITARY/STORM MANHOLE                          |

- 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, FEBRUARY 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



**PROJECT NO.**  
67971

**FIGURE NO.**  
1

Y:\ACAD\Projects\1313\1313\1313-8-B.3.d-Monitoring Wells.dwg Layout1  
 XREFS:

**Table 1 - June 2018 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       | 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    | 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      |                       |
| <b>Groundwater SL:</b>     |                 |             | NS                  | NS                  | NS           | NS             | 3,000      | NS                 | 0.2            | 0.2                  | NS                   | NS                   | 0.2      | NS                    | 400          | 400       | NS                     | 100         | 3,000        | 250       | NS                    |
| <b>WI Groundwater PAL:</b> |                 |             | NS                  | NS                  | NS           | NS             | 600        | NS                 | 0.02           | 0.02                 | NS                   | NS                   | 0.02     | NS                    | 80           | 80        | NS                     | 10          | NS           | 50        | NS                    |
| <b>Tap Water RSL:</b>      |                 |             | 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                    |
| 060418001                  | MW-709R         | 6/4/2018    | <0.0057 U           | <0.0047 U           | <0.0058 U    | <0.0048 U      | 0.015 J    | <0.0073 U          | <0.010 U       | 0.013 J              | 0.0096 J             | 0.0082 J             | 0.017 J  | <0.0096 U             | 0.036 J      | <0.0077 U | <0.017 U               | <0.018 U    | 0.018 J      | 0.029 J   | 0.18                  |
| 060418002                  | MW-708          | 6/4/2018    | <0.0057 U           | <0.0048 U           | <0.0059 U    | <0.0048 U      | <0.010 U   | <0.0073 U          | <0.010 U       | <0.0056 U            | <0.0066 U            | <0.0073 U            | <0.013 U | <0.0097 U             | <0.010 U     | <0.0077 U | <0.017 U               | <0.018 U    | <0.013 U     | <0.0074 U | 0.026                 |
| 060418003/060418004 (N)    | MW-707R         | 6/4/2018    | 88.7                | 1.3                 | 20.7         | 1.1 J          | 1.3 J      | <0.35 U            | <0.49 U        | <0.27 U              | <0.32 U              | <0.35 U              | <0.61 U  | <0.47 U               | <0.50 U      | 8.6       | <0.82 U                | 424         | 7.1          | 0.65 J    | 554                   |
| 060418005                  | PZ-703          | 6/4/2018    | 0.0061 J            | <0.0047 U           | 0.025 J      | 0.051          | <0.010 U   | <0.0073 U          | <0.010 U       | <0.0055 U            | <0.0065 U            | <0.0073 U            | <0.013 U | <0.0096 U             | <0.010 U     | 0.060     | <0.017 U               | 0.041 J     | 0.022 J      | 0.0074 J  | 0.23                  |
| 060418006                  | PZ-701          | 6/4/2018    | <0.0057 U           | <0.0048 U           | <0.0059 U    | <0.0048 U      | <0.010 U   | <0.0073 U          | <0.010 U       | <0.0056 U            | <0.0066 U            | <0.0073 U            | <0.013 U | <0.0097 U             | <0.010 U     | <0.0077 U | <0.017 U               | 0.019 J     | <0.013 U     | <0.0074 U | 0.045                 |
| 060418007                  | MW-701R         | 6/4/2018    | 179                 | 140                 | 117          | 1.3 J          | 8.7        | <0.75 U            | <1.0 U         | <0.57 U              | <0.67 U              | <0.75 U              | <1.3 U   | <0.99 U               | 3.3 J        | 25.8      | <1.7 U                 | 1,090       | 44.5         | 4.7       | 1,610                 |
| 060418008                  | PZ-702          | 6/4/2018    | 0.0083 J            | 0.013 J             | <0.0059 U    | <0.0048 U      | <0.010 U   | <0.0073 U          | <0.010 U       | <0.0056 U            | <0.0066 U            | <0.0073 U            | <0.013 U | <0.0097 U             | <0.010 U     | <0.0077 U | <0.017 U               | 0.042 J     | <0.013 U     | <0.0074 U | 0.088                 |
| 060418009                  | MW-706          | 6/4/2018    | 282                 | 285                 | 11.9         | 166            | 11.6       | 3.4 J              | 2.3 J          | 2.8 J                | 1.9 J                | <1.5 U               | 4.3 J    | <1.9 U                | 9.9 J        | 39.8      | <3.4 U                 | 2,270       | 50.7         | 12.3      | 3,150                 |
| 060418012                  | MW-705          | 6/4/2018    | --                  | --                  | --           | --             | --         | --                 | --             | --                   | --                   | --                   | --       | --                    | --           | --        | --                     | --          | --           | --        | --                    |
| 060418013                  | SG-703          | 6/4/2018    | --                  | --                  | --           | --             | --         | --                 | --             | --                   | --                   | --                   | --       | --                    | --           | --        | --                     | --          | --           | --        | --                    |
| 060418010                  | Equipment Blank | 6/4/2018    | --                  | --                  | --           | --             | --         | --                 | --             | --                   | --                   | --                   | --       | --                    | --           | --        | --                     | --          | --           | --        | --                    |
| 060418011                  | Trip Blank      | 6/4/2018    | --                  | --                  | --           | --             | --         | --                 | --             | --                   | --                   | --                   | --       | --                    | --           | --        | --                     | --          | --           | --        | --                    |

| 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     |
|---|--------|-------|-------|-------|-------|------|-------|-------|--------|--------|-------|-------|-------|------|------|-------|-------|--------|-------|-------|-------|
| Number of Detections:                         | 5      | 4     | 4     | 4     | 4     | 1    | 1     | 2     | 2      | 1      | 2     | 0     | 3     | 4    | 0    | 6     | 5     | 5      | 8     | 8     | 8     |
| Min:  | 0.0061 | 0.013 | 0.025 | 0.051 | 0.015 | 3.4  | 2.3   | 0.013 | 0.0096 | 0.0082 | 0.017 | 0     | 0.036 | 0.06 | 0    | 0.019 | 0.018 | 0.0074 | 0.026 | 0.026 | 0.026 |
| Max:  | 282    | 285   | 117   | 166   | 11.6  | 3.4  | 2.3   | 2.8   | 1.9    | 0.0082 | 4.3   | 0     | 9.9   | 39.8 | 0    | 2270  | 50.7  | 12.3   | 3150  | 3150  | 3150  |
| Groundwater SL:                               | NS     | NS    | NS    | NS    | 3000  | NS   | 0.2   | 0.2   | NS     | NS     | 0.2   | NS    | 400   | 400  | NS   | 100   | 3000  | 250    | NS    | NS    | NS    |
| Number of Samples that Exceed Groundwater SL: | 0      | 0     | 0     | 0     | 0     | 0    | 1     | 1     | 0      | 0      | 1     | 0     | 0     | 0    | 0    | 3     | 0     | 0      | 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    | NS    | NS    |
| Number of Samples that Meet or Exceed WI PAL: | 0      | 0     | 0     | 0     | 0     | 0    | 1     | 1     | 0      | 0      | 1     | 0     | 0     | 0    | 0    | 3     | 0     | 0      | 0     | 0     | 0     |
| Tap Water RSL:                                | 1.1    | 36    | 530   | 530   | 1800  | 0.03 | 0.025 | 0.25  | 120    | 2.5    | 25    | 0.025 | 800   | 290  | 0.25 | 0.17  | 1800  | 120    | NS    | NS    | NS    |
| Number of Samples that Exceed Tap Water RSL:  | 3      | 2     | 0     | 0     | 0     | 1    | 1     | 1     | 0      | 0      | 0     | 0     | 0     | 0    | 0    | 3     | 0     | 0      | 0     | 0     | 0     |

Sorted by 9-digit Code

Analyte concentration exceeds the standard for:

|                  |                    |
|------------------|--------------------|
| <b>BOLD</b>      | Groundwater SL     |
| <u>Underline</u> | WI Groundwater PAL |
| <i>Italic</i>    | 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)

**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). RAF Addendum (Revision 6) was issued in August 2017. Since that time two revisions of the RSLs have been published by EPA in November 2017 and in May 2018. As a result of these two 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. WI Groundwater PAL from Chapter NR 140 for Groundwater Quality from Wisconsin Admin Code (Feb 2017) PAL from Chapter NR 140 for Groundwater Quality from Wisconsin Admin Code (Feb 2017)

-- = 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

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

mg/L = milligrams per liter

MGP = Manufactured Gas Plant

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

NS = No Screening Level

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



**Table 1 - June 2018 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 | BTEX         | BTEX         | BTEX         | BTEX           | Inorganic   | Inorganic      | Organic | RNA              | RNA                   | RNA                           | RNA       | RNA                         | RNA                |                         |
|----------------------------|-----------------|-------------|--------------|--------------|--------------|----------------|---|----------------|---------|------------------|-----------------------|-------------------------------|-----------|-----------------------------|--------------------|-------------------------|
|                            |                 |             | Benzene      | Ethylbenzene | Toluene      | Xylenes, Total | Nitrogen, NO <sub>2</sub> + NO <sub>3</sub> , 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                    |
| <b>Groundwater SL:</b>     |                 |             | <b>5</b>     | <b>700</b>   | <b>800</b>   | <b>2,000</b>   | NS  | NS             | NS      | NS               | NS                    | NS                            | NS        | NS                          | NS                 | NS                      |
| <b>WI Groundwater PAL:</b> |                 |             | <u>0.5</u>   | <u>140</u>   | <u>160</u>   | <u>400</u>     | <u>2,000</u>  | <u>125,000</u> | NS      | NS               | NS                    | NS                            | NS        | NS                          | NS                 | NS                      |
| <b>Tap Water RSL:</b>      |                 |             | <i>0.46</i>  | <i>1.5</i>   | <i>1,100</i> | <i>190</i>     | NS  | NS             | NS      | NS               | NS                    | NS                            | NS        | NS                          | NS                 | NS                      |
| 060418001                  | MW-709R         | 6/4/2018    | <0.50 U      | <0.50 U      | <0.50 U      | <1.5 U         | <95 U   | 68,900         | 681     | 0.11             | 4.33                  | -215.5                        | 7.84      | 1722.3                      | 14.18              | 11.03                   |
| 060418002                  | MW-708          | 6/4/2018    | <0.50 U      | <0.50 U      | <0.50 U      | <1.5 U         | 120 J   | 53,400         | <1.4 U  | 5.47             | 10.04                 | 52.5                          | 7.97      | 2697.6                      | 14.89              | 104.46                  |
| 060418003/060418004 (N)    | MW-707R         | 6/4/2018    | <b>1,450</b> | <b>1,940</b> | 26.5 J       | <u>557</u>     | <95 U   | 107,000        | 5,560   | 0.11             | 4.13                  | -266.0                        | 7.84      | 1543.4                      | 13.99              | 23.52                   |
| 060418005                  | PZ-703          | 6/4/2018    | <b>429</b>   | <u>153</u>   | 10.7         | 94.7           | <95 U   | <5,000 U       | 1,100   | 0.32             | 4.34                  | -242.6                        | 8.45      | 611.24                      | 17.37              | 7.65                    |
| 060418006                  | PZ-701          | 6/4/2018    | <0.50 U      | <0.50 U      | <0.50 U      | <1.5 U         | 430   | 91,800         | <1.4 U  | 1.31             | 5.26                  | -6.7                          | 8.00      | 736.17                      | 16.98              | 0.00                    |
| 060418007                  | MW-701R         | 6/4/2018    | <b>3,550</b> | <u>311</u>   | 14.9 J       | 165            | <95 U   | <5,000 U       | 6,220   | 0.02             | 5.33                  | -202.4                        | 7.31      | 1898.4                      | 15.85              | 495.69                  |
| 060418008                  | PZ-702          | 6/4/2018    | <0.50 U      | <0.50 U      | <0.50 U      | <1.5 U         | <95 U   | <5,000 U       | <1.4 U  | 3.38             | 6.43                  | 9.7                           | 8.19      | 199.64                      | 18.11              | 3.01                    |
| 060418009                  | MW-706          | 6/4/2018    | <b>6,170</b> | <b>830</b>   | <b>3,960</b> | <u>1,130</u>   | <95 U   | 69,500         | 26.6    | --               | 7.98                  | --                            | --        | --                          | --                 | --                      |
| 060418012                  | MW-705          | 6/4/2018    | --           | --           | --           | --             | --  | --             | --      | --               | 5.87                  | --                            | --        | --                          | --                 | --                      |
| 060418013                  | SG-703          | 6/4/2018    | --           | --           | --           | --             | --  | --             | --      | --               | 1.11                  | --                            | --        | --                          | --                 | --                      |
| 060418010                  | Equipment Blank | 6/4/2018    | <0.50 U      | <0.50 U      | <0.50 U      | <1.5 U         | --  | --             | --      | --               | --                    | --                            | --        | --                          | --                 | --                      |
| 060418011                  | Trip Blank      | 6/4/2018    | <0.50 U      | <0.50 U      | <0.50 U      | <1.5 U         | --  | --             | --      | --               | --                    | --                            | --        | --                          | --                 | --                      |

|  |       |       |       |       |       |         |       |      |       |      |      |         |       |        |    |
|--|-------|-------|-------|-------|-------|---------|-------|------|-------|------|------|---------|-------|--------|----|
| <b>Total Number of Samples Analyzed:</b>             | 10    | 10    | 10    | 10    | 8     | 8       | 8     | 7    | 10    | 7    | 7    | 7       | 7     | 7      | 7  |
| <b>Number of Detections:</b>                         | 4     | 4     | 4     | 4     | 2     | 5       | 5     | 7    | 10    | 7    | 7    | 7       | 7     | 7      | 7  |
| <b>Min:</b>  | 429   | 153   | 10.7  | 94.7  | 120   | 53,400  | 26.6  | 0.02 | 1.11  | -266 | 7.31 | 199.64  | 13.99 | 0      | 0  |
| <b>Max:</b>  | 6,170 | 1,940 | 3,960 | 1,130 | 430   | 107,000 | 6,220 | 5.47 | 10.04 | 52.5 | 8.45 | 2,697.6 | 18.11 | 495.69 |    |
| <b>Groundwater SL:</b>                               | 5     | 700   | 800   | 2,000 | NS    | NS      | NS    | NS   | NS    | NS   | NS   | NS      | NS    | NS     | NS |
| <b>Number of Samples that Exceed Groundwater SL:</b> | 4     | 2     | 1     | 0     | 0     | 0       | 0     | 0    | 0     | 0    | 0    | 0       | 0     | 0      | 0  |
| <b>WI Groundwater PAL:</b>                           | 0.5   | 140   | 160   | 400   | 2,000 | 125,000 | NS    | NS   | NS    | NS   | NS   | NS      | NS    | NS     | NS |
| <b>Number of Samples that Meet or Exceed WI PAL:</b> | 4     | 4     | 1     | 2     | 0     | 0       | 0     | 0    | 0     | 0    | 0    | 0       | 0     | 0      | 0  |
| <b>Tap Water RSL:</b>                                | 0.46  | 1.5   | 1,100 | 190   | NS    | NS      | NS    | NS   | NS    | NS   | NS   | NS      | NS    | NS     | NS |
| <b>Number of Samples that Exceed Tap Water RSL:</b>  | 4     | 4     | 1     | 2     | 0     | 0       | 0     | 0    | 0     | 0    | 0    | 0       | 0     | 0      | 0  |

[O:ECK 7/11/18][C:MGP 7/11/18, QA: JQW 7/12/18]

Sorted by 9-digit Code

Analyte concentration exceeds the standard for:

|                  |                    |
|------------------|--------------------|
| <b>BOLD</b>      | Groundwater SL     |
| <u>Underline</u> | WI Groundwater PAL |
| <i>Italic</i>    | 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)

**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). RAF Addendum (Revision 6) was issued in August 2017. Since that time two revisions of the RSLs have been published by EPA in November 2017 and in May 2018. As a result of these two 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.

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

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

-- = Analysis not performed

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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

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

mg/L = milligrams per liter

MGP = Manufactured Gas Plant

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

NS = No Screening Level

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

