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

July 24, 2020

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

**RE: June 2020 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 May 2020 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by June 26, 2020.
- Completed second quarter June 2020 field-measured parameter and groundwater sampling event (June 8, 2020).

## 2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

- Groundwater analytical results summary table from the June 8, 2020 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

- As discussed on the April 30, 2020 conference call, determine a path for deferral of site authority to the State of Wisconsin.

## 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 (414) 221-3948 or robert.paulson@wecenergygroup.com.

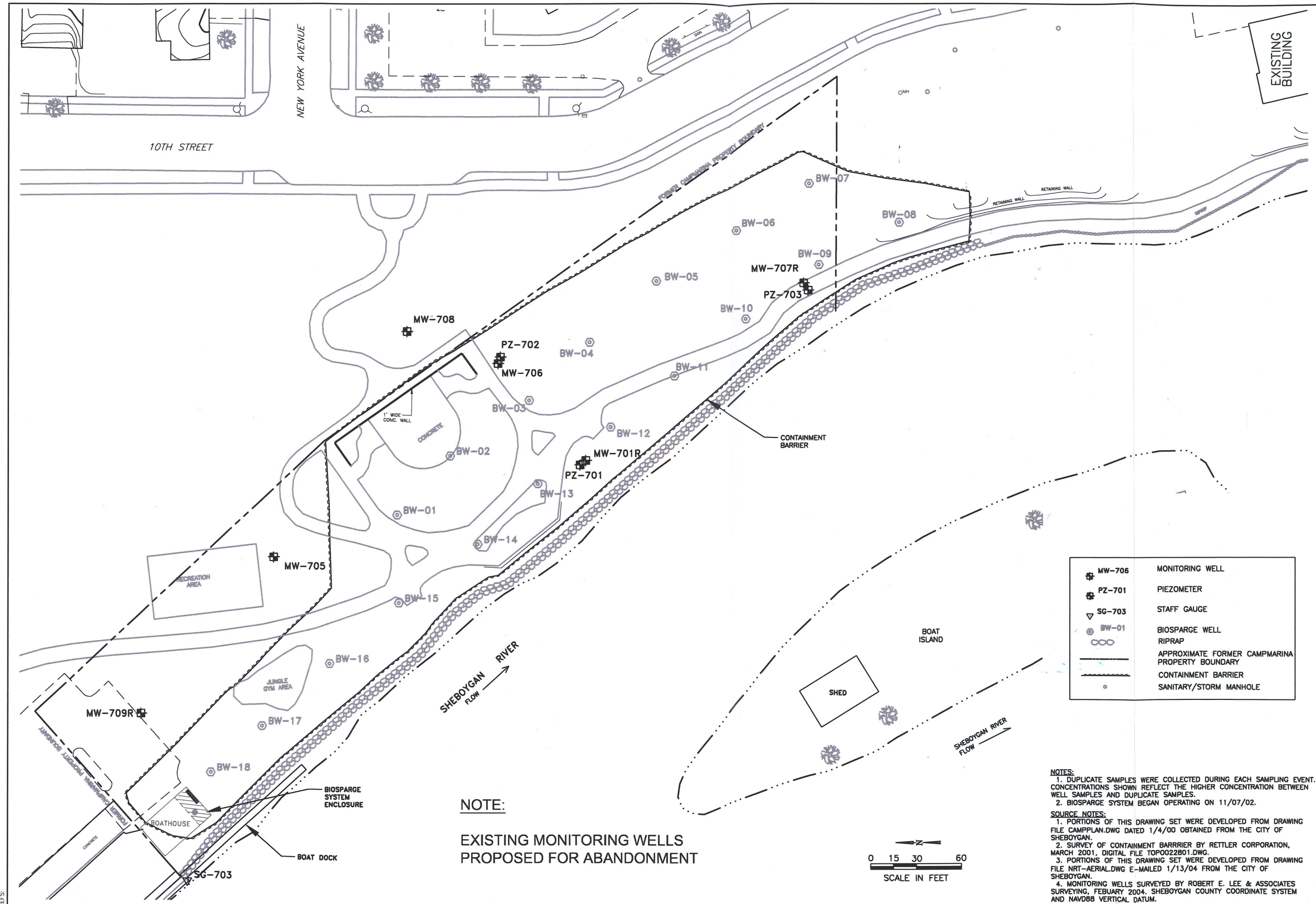
Sincerely,

Robert Paulson

Robert Paulson

Enclosures: Site Map
Table 1. June 2020 Groundwater Sample Results

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




NOTE:

EXISTING MONITORING WELLS
PROPOSED FOR ABANDONMENT

N

0 15 30 60

SCALE IN FEET

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 BARRIER 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.

# MONITORING WELLS

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

| | | |
|---|---|---|
| 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

RAMBOLL

PROJECT NO.
67971

FIGURE NO.
1

Jan 14, 2020 2:17pm PLOTTED BY: CAWRSEAG SAVED BY: ndraskovich
Y:\ACAData\Projects\13\1313\8\1313-8-B.3.d-Monitoring Wells.dwg Layout1
IMAGES: Y:\ACAData\Projects\13\1313\6\Nms10001.tif:
XREFS:

**Table 1. June 2020 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | | | 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** |
| 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* | *0.12* | *1,800* | *120* |
| 060820001 | MW-709R | 6/8/2020 | <0.0058 U | <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 | <0.018 U | <0.014 U | <0.0076 U |
| 060820002 | MW-707R | 6/8/2020 | *94.9* | <0.10 U | 24.1 | 1.2 | 1.4 | <0.16 U | <0.22 U | <0.12 U | <0.14 U | <0.16 U | <0.27 U | <0.21 U | 0.80 J | 13.3 | <0.37 U | *176* | 12.0 | 0.80 |
| 060820003 | PZ-703 | 6/8/2020 | 0.0083 J | <0.0050 U | 0.14 | 0.023 J | <0.011 U | <0.0077 U | <0.011 U | <0.0059 U | <0.0069 U | <0.0077 U | <0.013 U | <0.010 U | <0.011 U | 0.085 | <0.018 U | 0.026 J | 0.033 J | <0.0078 U |
| 060820004 | MW-708 | 6/8/2020 | <0.0057 U | <0.0047 U | <0.0058 U | <0.0048 U | <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 | <0.0077 U | <0.017 U | <0.018 U | <0.013 U | <0.0074 U |
| 060820005 | MW-701R | 6/8/2020 | *115* | *103* | 86.4 | 1.2 J | 6.0 | *0.59* J | <0.81 U | <0.44 U | <0.52 U | <0.58 U | <1.0 U | <0.77 U | 2.8 J | 20.4 | <1.4 U | *762* | 31.4 | 4.0 |
| 060820006/060820007 (N) | PZ-701 | 6/8/2020 | 0.011 J | 0.013 J | 0.0072 J | <0.0049 U | 0.025 J | <0.0074 U | <0.010 U | <0.0056 U | <0.0066 U | <0.0074 U | 0.016 J | <0.0098 U | <0.010 U | <0.0078 U | <0.017 U | 0.050 J | <0.014 U | <0.0075 U |
| 060820008 | MW-706 | 6/8/2020 | *161* | *169* | 8.3 | 101 | 4.8 J | *2.8* J | <2.0 U | *1.7* J | <1.3 U | <1.4 U | *2.5* J | <1.9 U | 4.9 J | 26.4 | <3.4 U | *1,470* | 28.5 | 6.6 J |
| 060820009 | PZ-702 | 6/8/2020 | <0.0058 U | 0.0061 J | <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 | <0.018 U | <0.014 U | <0.0076 U |
| 060820010 | EB01 | 6/8/2020 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 060820011 | TB01 | 6/8/2020 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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: | 5 | 4 | 5 | 4 | 4 | 2 | 0 | 1 | 0 | 0 | 2 | 0 | 3 | 4 | 0 | 5 | 4 | 3 | | |
| Min: | 0.0083 | 0.0061 | 0.0072 | 0.023 | 0.025 | 0.59 | 0 | 1.7 | 0 | 0 | 0.016 | 0 | 0.8 | 0.085 | 0 | 0.026 | 0.033 | 0.8 | | |
| Max: | 161 | 169 | 86.4 | 101 | 6 | 2.8 | 0 | 1.7 | 0 | 0 | 2.5 | 0 | 4.9 | 26.4 | 0 | 1,470 | 31.4 | 6.6 | | |
| **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 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 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 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | | |
| **Tap Water RSL:** | 1 | 36 | 530 | 530 | 1,800 | | 0.025 | 0.25 | 120 | 3 | 25 | | 800 | 290 | | 0.12 | 1,800 | 120 | | |
| *Number of Samples that Exceed Tap Water RSL:* | 3 | 2 | 0 | 0 | 0 | 2 | 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).

-- = 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

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)

**Table 1. June 2020 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 Benzene | BTEX Ethylbenzene | BTEX Toluene | BTEX Xylenes, Total | Inorganic Nitrogen, NO2 + NO3, Total | Inorganic Sulfate, Total | Organic Methane | RNA Dissolved oxygen | RNA Groundwater, depth to | RNA Oxidation Reduction Potential | RNA pH, Field | RNA Specific Conductance, Field | RNA Temperature, Water | RNA 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* |
| 060820001 | MW-709R | 6/8/2020 | <0.25 U | <0.32 U | 0.58 J | 2.0 J | <59 U | 500 J | 4,370 | 0.12 | 4.10 | -24.1 | 6.96 | 2107.1 | 12.20 | 0.00 |
| 060820002 | MW-707R | 6/8/2020 | *1,020* | *1,730* | 19.8 | *461* | <59 U | 89,100 | 7,980 | 0.12 | 3.83 | -235.6 | 7.15 | 1437.5 | 12.79 | 0.00 |
| 060820003 | PZ-703 | 6/8/2020 | *296* | *146* | 8.5 | 72.6 | <59 U | <440 U | 1,850 | 0.13 | 3.64 | -226.4 | 7.44 | 557.8 | 13.47 | 0.00 |
| 060820004 | MW-708 | 6/8/2020 | <0.25 U | <0.32 U | <0.27 U | <1.5 U | 360 | 27,500 | <0.66 U | 3.11 | 9.65 | 25.9 | 7.34 | 2,131 | 13.07 | 0.00 |
| 060820005 | MW-701R | 6/8/2020 | *3,690* | *296* | 26.4 J | *191* | 5,500 | 800 J | 16,900 | 0.06 | 5.43 | -204.0 | 6.40 | 2221.2 | 15.19 | 37.27 |
| 060820006/060820007 (N) | PZ-701 | 6/8/2020 | <0.25 U | 0.41 J | <0.27 U | <1.5 U | 330 | 136,000 | <0.66 U | -- | -- | -- | -- | -- | -- | -- |
| 060820008 | MW-706 | 6/8/2020 | *3,250* | *828* | *2,500* | *944* | <59 U | 78,500 | 2.1 J | 0.06 | 7.61 | -250.3 | 7.05 | 1007.1 | 13.40 | 0.36 |
| 060820009 | PZ-702 | 6/8/2020 | <0.25 U | <0.32 U | <0.27 U | <1.5 U | 84 J | 1,900 J | <0.66 U | 4.13 | 5.72 | -18.2 | 7.70 | 190.2 | 15.07 | 0.00 |
| 060820010 | EB01 | 6/8/2020 | <0.25 U | <0.32 U | <0.27 U | <1.5 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 060820011 | TB01 | 6/8/2020 | <0.25 U | <0.32 U | <0.27 U | <1.5 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Number of Samples Analyzed: | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Number of Detections: | 4 | 5 | 5 | 5 | 4 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Min: | 296 | 0.41 | 0.58 | 2 | 84 | 500 | 2.1 | 0.06 | 3.64 | -250.3 | 6.4 | 190.2 | 12.2 | 0 |
| Max: | 3,690 | 1,730 | 2,500 | 944 | 5,500 | 136,000 | 16,900 | 4.13 | 9.65 | 25.9 | 7.7 | 2,221 | 15.19 | 37.27 |
| **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 | 2 | 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 | 1 | 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 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

[O:CMD 7/6/20, C:SGW 7/7/20, C:KJS 7/13/20]

Sorted by 9-digit Code

Analyte concentration exceeds the standard for:

| | |
|---|---|
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RAMBOLL