From:	Dombrowski, Frank J <frank.dombrowski@wecenergygroup.com>
Sent:	Thursday, July 15, 2021 2:28 PM
To:	Rolfes, Sarah
Cc:	Fitzpatrick, William - DNR; DNR RR NER; Korpela, Adrienne/MKE; Staci L Goetz; david.klatt@jacobs.com; Krueger, Sarah E - DNR
Subject:	WPSC Former Green Bay Former MGP - June 2021 Monthly Progress Report (CERCLA Docket No. V-W-06-C-847)
Attachments:	2021-07-15 WPSC-USEPA June 2021 WPSC Green Bay Monthly Progress Report.pdf

Hi Sarah,

Please find attached the June 2021 monthly progress report for the WPSC Green Bay, WI Former MGP Site.

As always, please feel free to contact me if you have any questions or if additional information may be needed.

Thank you,

Frank Dombrowski
Principal Environmental Consultant

WEC Energy Group – Business Services
Environmental Dept. - Land Quality Group
333 W. Everett St., A231
Milwaukee, WI 53203
Office: (414) 221-2156
Cell: (414) 587-4467
Fax: (414) 221-2022

Serving WEC Energy Group, We Energies, Wisconsin Public Service, Michigan Gas Utilities, Minnesota Energy Resources, Peoples Gas and North Shore Gas

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

July 15, 2021

Ms. Sarah Rolfes
Remedial Project Manager
United States Environmental Protection Agency
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590

RE: June 2021 Monthly Progress Report
Green Bay Former Manufactured Gas Plant
Green Bay, Wisconsin
Wisconsin Public Service Corporation
CERCLA Docket No. V-W-06-C-847, CERCLIS ID – WIN000509948

Dear Ms. Rolfes:

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

1) PROGRESS MADE DURING THE PAST MONTH

- Prepared and submitted May 2021 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by June 15, 2021.

2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

- May 2021 semi-annual groundwater monitoring results are attached to this report.

3) PROJECTED WORK

WPSC Actions

- Submit monthly progress report to USEPA by the 15th of the month.
- Continue to evaluate pre-design investigation (PDI) information for the northern portion of the upland Operable Unit (OU). Incorporate PDI data into a PDI Data Summary Report.
- Respond to comments on the Letter of Intent (LOI) for the upland OU and incorporate comments into a Remedial Action Work Plan or an RI Report Revision 0.
- Prepare to receive comments on Sediment OU RI Report, Revision 1.

USEPA Actions

- Review Sediment OU Response to Comments on RI Report Revision 0 and RI Report, Revision 1, submitted February 19, 2021.

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) 221-2156 or via email at frank.dombrowski@wecenergygroup.com.

Sincerely,

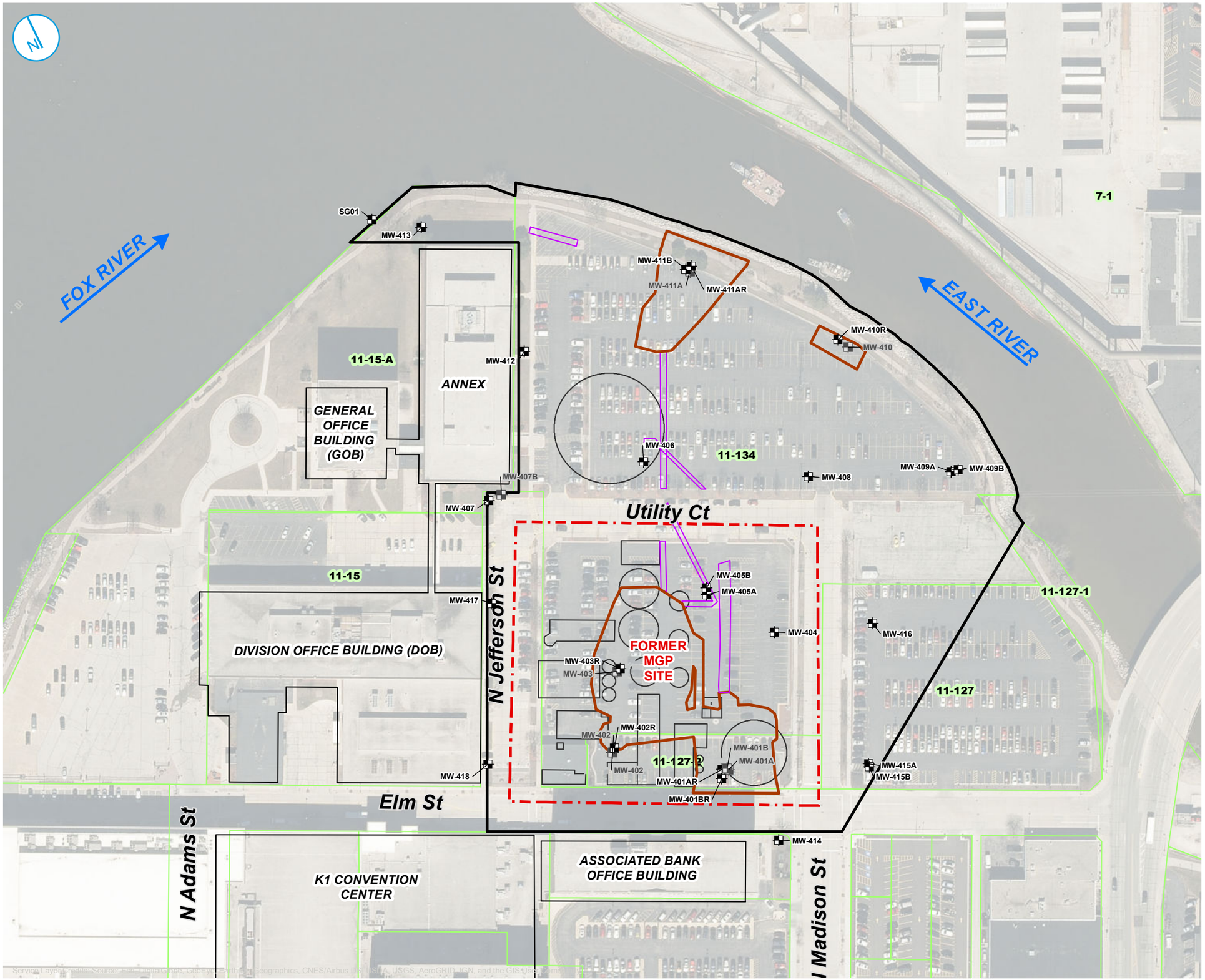
Frank Dombrowski
Principal Environmental Consultant
WEC Business Services – Environmental Dept.

Enclosures:
Figure 1. Monitoring Well Locations
Table 1. May 2021 Groundwater Analytical Results Compared to the Groundwater SL, the PAL, and Tap Water Criteria
Table 2. May 2021 Groundwater Sample Results Compared to VISLs
Green Bay June 2021 MPR SharePoint Link

For distribution to:
Ms. Sarah Krueger, WDNR (via US Mail and email)
Mr. William Fitzpatrick, WDNR (via email)
WDNR Northeast Region (via email to DNRRRNER@wisconsin.gov)
Ms. Adrienne Korpela, Jacobs (via email)
Mr. Dave Klatt, Jacobs (via email)
Dr. Staci Goetz, Ramboll (via email)

FIGURE

Y:\GIS\Projects\15\1584\MXD\MPR\2019_Ramb\Figure 1_GW Locations.mxd



- MONITORING WELL/STAFF GAUGE LOCATION
- ABANDONED MONITORING WELL LOCATION
- FORMER STRUCTURE
- SOIL REMEDIATION EXCAVATION AREAS (2003)
- SOIL REMEDIATION MGP PIPING RUNS
- UPLAND SITE BOUNDARY
- FORMER MGP
- BUILDING FOOTPRINT
- TAX PARCEL

0 62.5 125 Feet

GROUNDWATER MONITORING LOCATIONS

FORMER GREEN BAY MANUFACTURED GAS PLANT
WISCONSIN PUBLIC SERVICE CORPORATION
CITY OF GREEN BAY, WISCONSIN

FIGURE 01

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

PROJECT: 169000XXXX | DATED: 12/9/2019 | DESIGNER: STOLZSD

TABLES

Table 1. May 2021 Groundwater Analytical Results Compared to the Groundwater SL, the PAL, and Tap Water Criteria

June 2021 Monthly Progress Report
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site
700 N Adams St, Green Bay, Wisconsin
BRRTS#: 02-05-000254 USEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	PVOC 1,2,4-Trimethylbenzene	PVOC 1,3,5-Trimethylbenzene	PVOC Trimethylbenzenes, Total [1]	PVOC Benzene	PVOC Ethylbenzene	PVOC Toluene	PVOC Xylene, o	PVOC Xylenes, m + p	PVOC Xylenes, Total	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	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	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag
WI Groundwater SL:			**NS**	**NS**	**480**	**5**	**700**	**800**	**NS**	**NS**	**2,000**	**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	96	0.5	140	160	NS	NS	400	NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50
Tap Water RSL:			*56*	*60*	*NS*	*0.46*	*1.5*	*1,100*	*190*	*190*	*190*	*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*
052521021	MW-401BR	05/25/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.26	0.30	0.017 J	0.043	0.037 J	*0.094*	0.099	0.17	0.11	0.066	0.20	0.016 J	0.32	0.045	0.081 J	*1.9*	0.16	0.30
052521020	MW-402R	05/25/2021	15.2	0.71 U	15.2	**167**	*17.0*	3.3	11.3	17.1	28.4	*50.0*	2.6	15.9	0.99	0.67 J	0.16 U	0.23 U	0.12 U	0.15 U	0.16 U	0.28 U	0.22 U	0.45 J	6.6	0.38 U	77.2	3.5	0.51 J
052621025	MW-403R	05/26/2021	29.1	3.6 U	29.1	**894**	*76.8*	22.0	55.4	65.8	121	*49.1*	33.4	12.4	2.7	1.4 J	0.68 U	0.95 U	0.52 U	0.61 U	0.68 U	1.2 U	0.90 U	0.96 U	6.9	1.6 U	**788**	8.6	0.69 U
052621023	MW-404	05/25/2021	5.3	1.4	6.7	**77.5**	213	0.91 J	12.2	6.4	18.6	*104*	0.11 U	10.3	4.9	1.6	0.16 U	0.23 U	0.12 U	0.15 U	0.16 U	0.28 U	0.22 U	0.74 J	0.92	0.38 U	*3.7*	8.3	0.79 J
052621024	MW-405B	05/26/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.037	0.015 J	0.015 J	0.029	0.076	*0.41*	**0.71**	**1.3**	0.89	0.61	**1.1**	*0.12*	1.8	0.015 J	*0.71*	*0.22*	0.49	1.4
052521013/052521014 (N)	MW-406	05/25/2021	0.45 U	0.36 U	0.81 U	0.50 J	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.017 J	0.0080 J	0.025 J	0.029	0.022 J	*0.041*	0.091	**0.27**	0.17	0.10	**0.22**	0.018 J	0.48	0.012 J	0.12	0.023 J	0.087	0.31
052421003	MW-407	05/24/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0056 U	0.0048 J	0.0058 U	0.0047 U	0.010 U	0.0072 U	0.010 U	0.0055 U	0.0065 U	0.0072 U	0.012 U	0.0095 U	0.010 U	0.0076 U	0.017 U	0.017 U	0.013 U	0.011 J
052521015	MW-408	05/25/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.031 J	0.013 J	0.062	0.041 J	0.24	*0.76*	**1.4**	**3.2**	1.9	1.4	**3.0**	*0.24*	6.9	0.19	*1.5*	0.036 U	1.3	4.7
052521011	MW-409A	05/25/2021	0.45 U	0.36 U	0.81 U	0.95 J	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.019 J	0.0075 J	0.015 J	0.039	0.073	*0.17*	**0.32**	**0.75**	0.48	0.32	**0.59**	*0.062*	0.99	0.026 J	*0.38*	0.036 J	0.24	0.81
052521012	MW-409B	05/25/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0060 J	0.0045 J	0.0054 U	0.013 J	0.023 J	*0.078*	0.14	**0.30**	0.22	0.13	**0.25**	*0.026* J	0.39	0.0071 U	0.16	0.016 U	0.099	0.31
052421006/052421007 (N)	MW-410R	05/24/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.047	0.028	0.019 J	0.012 J	0.052	0.0070 U	0.0098 U	0.0075 J	0.0063 U	0.0070 U	0.012 U	0.0093 U	0.011 J	0.0074 U	0.016 U	0.038 J	0.013 U	0.0098 J
052521009	MW-411AR	05/25/2021	1.2	0.36 U	1.2	**188**	*11.6*	0.60 J	0.62 J	0.70 U	1.3 J	0.96	0.29	0.33	0.11	0.079	0.011 J	0.010 U	0.021 J	0.015 J	0.010 J	0.038 J	0.0095 U	0.090	0.18	0.017 U	*2.5*	0.35	0.12
052521010	MW-411B	05/25/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0080 J	0.0051 U	0.0071 J	0.012 J	0.059	*0.11*	*0.20*	**0.47**	0.32	0.19	**0.35**	*0.040* J	0.54	0.0082 U	0.22	0.019 U	0.14	0.43
052421004	MW-412	05/24/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	*1.3*	1.5	0.15	1.4	1.3	*1.4*	**1.3**	**1.1**	0.67	0.44	**1.6**	*0.21*	1.9	1.1	*0.50*	*1.6*	4.2	2.6
052421005	MW-413	05/24/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0056 U	0.0049 J	0.0059 J	0.0047 U	0.010 U	0.0072 U	0.010 U	0.0055 U	0.0065 U	0.0072 U	0.012 U	0.0095 U	0.010 U	0.0076 U	0.017 U	0.024 J	0.013 U	0.0073 U
052521019	MW-414	05/25/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0057 U	0.0048 U	0.0059 U	0.0048 U	0.010 U	0.0073 U	0.010 U	0.012 J	0.0066 U	0.0073 U	0.013 U	0.0097 U	0.023 J	0.0077 U	0.017 U	0.018 U	0.013 U	0.017 J
052521017	MW-415A	05/25/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0061 U	0.0063 J	0.0061 U	0.017 J	0.010 U	*0.037* J	*0.058*	0.13	0.079	0.064	0.12	0.011 J	0.20	0.0096 J	0.065 J	0.027 J	0.083	0.15
052521018	MW-415B	05/25/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0061 U	0.0051 U	0.0063 U	0.0052 U	0.011 U	0.011 J	0.014 J	0.037	0.026 J	0.013 J	0.031 J	0.010 U	0.056	0.0083 U	0.019 J	0.019 U	0.019 J	0.042
052521016	MW-416	05/25/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0068 J	0.0044 U	0.0054 U	0.0044 U	0.0093 U	0.0087 J	0.010 J	0.030	0.020 J	0.012 J	0.027 J	0.0089 U	0.048	0.0071 U	0.016 J	0.016 U	0.017 J	0.037
052421002	MW-417	05/24/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.027 J	0.034	0.0061 U	0.0060 J	0.010 U	0.0084 J	0.011 U	0.0057 U	0.0068 U	0.0076 U	0.013 U	0.010 U	0.015 J	0.011 J	0.018 U	0.098	0.034 J	0.018 J
052421001	MW-418	05/24/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.032	0.043	0.0060 U	0.0052 J	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	*0.18*	0.020 J	0.0081 J
052621028 [2]	MW-401AR	05/24/2021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
052621027 [2]	MW-405A	05/24/2021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
052621029 [2]	SG01	05/24/2021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
052421008	EB01	05/24/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0069 U	0.0058 U	0.0071 U	0.0059 U	0.012 U	0.0089 U	0.012 U	0.0068 U	0.0080 U	0.0089 U	0.015 U	0.012 U	0.013 U	0.0094 U	0.021 U	0.022 U	0.016 U	0.0090 U
052521022	EB02	05/25/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0055 U	0.0045 U	0.0056 U	0.0046 U	0.0097 U	0.0070 U	0.0098 U	0.0053 U	0.0063 U	0.0070 U	0.012 U	0.0093 U	0.0099 U	0.0074 U	0.016 U	0.017 U	0.013 U	0.0071 U
052621026	TB01	05/26/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total Number of Samples Analyzed:			21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Number of Detections:			4	1	4	6	4	4	4	3	4	17	16	13	16	13	13	11	14	12	12	12	9	17	12	11	14	17	19
Min:			1.2	1.4	1.2	0.5	11.6	0.6	0.62	6.4	1.3	0.006	0.0045	0.0059	0.0052	0.022	0.0084	0.01	0.0075	0.015	0.01	0.027	0.011	0.011	0.0096	0.016	0.023	0.017	0.0081
Max:			29.1	1.4	29.1	894	213	22	55.4	65.8	121	104	33.4	15.9	4.9	1.6	1.4	1.4	3.2	1.9	1.4	3	0.24	6.9	6.9	1.5	788	8.6	4.7
WI Groundwater SL:			NS	NS	480	5	700	800	NS	NS	2000	NS	NS	NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	3000	250
Number of Samples that Exceed WI Groundwater SL:			0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4	7	0	0	7	0	0	0	0	1	0	0
WI Groundwater PAL:			NS	NS	96	0.5	140	160	NS	NS	400	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	6	1	0	0	0	0	0	0	0	0	0	0	9	12	0	0	12	0	0	0	0	2	0	0
Tap Water RSL:			56	60	NS	0.46	1.5	1100	190	190	190	1.1	36	530	530	1800	0.03	0.025	0.25	120	2.5	25	0.025	800	290	0.25	0.12	1800	120
Number of Samples that Exceed Tap Water RSL:			0	0	0	6	4	0	0	0	0	4	0	0	0	0	9	9	7	0	0	0	6	0	0	4	8	0	0

Bold	exceeds the WI Groundwater SL
Underline	attains or exceeds the WI Groundwater PAL
Italic	exceeds the Tap Water RSL
Yellow Highlighting	analyte exceedance in statistics for one or more samples
Pink Highlighting	Groundwater 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:
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, eight revisions of the RSLs have been published by EPA through May 2021. As a result of these eight revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.
PAL from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020. Results that attain or exceed the PAL are considered to be in exceedance.

Results & Flags:
-- = Analysis not performed
J = Estimated Concentration
U = Concentration was not detected above the reported limit

Acronyms:
(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter (aka micromhos per centimeter)
BRRTS = Bureau for Remediation and Redevelopment Tracking System
Deg C = degrees Celsius
EB = Equipment Blank
EPA = Environmental Protection Agency
MCL = Maximum Contaminant Level
MGP = Manufactured Gas Plant
NO2 + NO3 = nitrite plus nitrate
NS = No Screening Level/No Standard
NTU = Nephelometric Turbidity Unit
PAH = Polycyclic Aromatic Hydrocarbon
PAL = Preventive Action Limit
PVOC = Petroleum Volatile Organic Compound
RSL = Regional Screening Level
s.u. = standard units
SL = Screening Level
TB = Trip Blank
USEPA = United States Environmental Protection Agency
WI = Wisconsin

Superscripts:
1. Total Trimethylbenzenes were calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, only the detected results were added together for the total summation.
   c. Analytes used for the calculation are 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.
2. No sample collected at this location; only depth to groundwater recorded.

Field parameters were analyzed at time of sampling using an InSitu Aquatroll Multiparameter sonde.
Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Table 1. May 2021 Groundwater Analytical Results Compared to the Groundwater SL, the PAL, and Tap Water Criteria

June 2021 Monthly Progress Report
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site
700 N Adams St, Green Bay, Wisconsin
BRRTS#: 02-05-000254 USEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	Metal: Arsenic, Total	Metal: Barium, Total	Metal: Cadmium, Total	Metal: Chromium, Total	Metal: Iron, Total	Metal: Lead, Total	Metal: Manganese, Total	Metal: Mercury, Total	Metal: Selenium, Total	Metal: Silver, Total	Inorganic: Nitrogen, NO2 + NO3, Total	Inorganic: Sulfate, Total	Organic: Methane	Field: Dissolved oxygen	Field: Groundwater, depth to	Field: Oxidation Reduction Potential	Field: pH, Field	Field: Specific Conductance, Field	Field: Temperature, Water	Field: Turbidity, Quantitative
		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	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	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag
		WI Groundwater SL:	**10**	**2,000**	**5**	**100**	**NS**	**15**	**300**	**2**	**50**	**50**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
		WI Groundwater PAL:	1	400	0.5	10	150	1.5	60	0.2	10	10	2,000	125,000	NS	NS	NS	NS	NS	NS	NS	NS
		Tap Water RSL:	*0.052*	*3,800*	*9.2*	*22,000*	*14,000*	*15*	*430*	*5.7*	*100*	*94*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
052521021	MW-401BR	05/25/2021	*0.77* J	66.7	0.30 U	2.0 U	116 U	0.47 U	***326***	0.066 U	0.63 U	0.25 U	370	1,030,000	5.5	0.36	8.72	61.8	7.12	3757.5	18.46	0.00
052521020	MW-402R	05/25/2021	*1.7* J	762	0.30 U	2.0 U	4,320	0.47 U	***325***	0.066 U	1.2 J	0.25 U	160 J	152,000	208	0.24	4.11	-47.5	7.03	9063.4	17.38	0.00
052621025	MW-403R	05/26/2021	*1.1* J	131	0.30 U	2.0 U	1,400	0.47 U	141	0.066 U	0.63 U	0.25 U	120 J	473,000	63.9	0.10	2.76	-127.7	7.40	4622.6	15.78	2.43
052621023	MW-404	05/25/2021	1.4 U	136	0.76 U	5.1 U	2,560	1.2 U	280	0.066 U	1.6 U	0.64 U	96 J	279,000	76.6	0.42	2.09	-38.6	6.74	7344.9	16.17	0.00
052621024	MW-405B	05/26/2021	1.4 U	21.9	0.76 U	5.1 U	290 U	1.2 U	9.3 J	0.066 U	1.6 U	0.64 U	1,300	111,000	0.58 U	0.74	4.34	179.9	8.02	4617.3	16.69	0.00
052521013/052521014 (N)	MW-406	05/25/2021	2.8 U	163	1.5 U	10.2 U	1,410 J	2.4 U	***814***	0.066 U	3.2 U	1.3 U	59 U	200,000	198	0.15	2.46	-90.2	7.01	10195.9	19.48	13.77
052421003	MW-407	05/24/2021	*3.0*	301	0.56 J	2.0 U	9,950	0.60 J	***671***	0.066 U	0.94 J	0.25 U	59 U	46,500	472	0.54	3.75	-95.5	7.06	4243.7	16.11	0.00
052521015	MW-408	05/25/2021	*2.8* J	294	0.76 U	5.1 U	*32,500*	1.2 U	***2,630***	0.066 U	1.6 U	0.64 U	59 U	50,600	1,100	0.23	1.74	-53.3	6.53	9,063	18.83	71.65
052521011	MW-409A	05/25/2021	*3.6* J	74.2	0.76 U	7.6 J	3,190	***19.0***	***334***	0.066 U	1.6 U	0.64 U	160 J	252,000	703	0.17	2.38	-93.7	7.12	11902.1	18.48	14.05
052521012	MW-409B	05/25/2021	0.56 U	16.8	0.30 U	2.0 U	116 U	0.47 U	9.9	0.066 U	0.63 U	0.25 U	750	394,000	0.58 U	2.73	6.63	86.5	6.98	1,485	18.01	2.13
052421006/052421007 (N)	MW-410R	05/24/2021	1.4 U	316	0.76 U	5.1 U	2,730	1.2 U	***798***	0.066 U	1.6 U	0.64 U	59 U	103,000	5,250	0.34	3.31	-198.4	6.58	8486.4	16.88	28.39
052521009	MW-411AR	05/25/2021	***67.4***	62.7	0.30 U	4.4 J	1,150	4.5	26.6	0.066 U	2.9	0.25 U	630	153,000	27.4	0.43	2.90	-70.9	9.35	4970.4	15.51	92.35
052521010	MW-411B	05/25/2021	*0.73* J	8.7	0.30 U	2.0 U	116 U	0.47 U	107	0.066 U	0.63 U	0.25 U	580	74,300	4.8	0.33	4.75	-18.6	8.44	2825.2	15.61	0.00
052421004	MW-412	05/24/2021	*4.5* J	544	0.79 J	5.1 U	*47,100*	1.2 U	***2,160***	0.066 U	1.6 U	0.64 U	59 U	9,300 J	1,680	0.79	6.23	-115.6	6.89	9400.5	16.40	0.00
052421005	MW-413	05/24/2021	*0.87* J	112	0.66 J	2.0 U	11,000	0.77 J	253	0.066 U	0.63 U	0.25 U	59 U	11,000	3,780	0.55	4.31	-70.6	6.77	868.0	13.33	5.97
052521019	MW-414	05/25/2021	1.4 U	279	0.76 U	5.1 U	290 U	1.2 U	116	0.066 U	1.6 U	0.64 U	470	104,000	2.6 J	0.51	4.66	122.2	7.03	8445.1	16.93	0.00
052521017	MW-415A	05/25/2021	0.56 U	106	0.30 U	2.0 U	116 U	0.47 U	4.7 J	0.066 U	0.63 U	0.25 U	190 J	253,000	0.58 U	0.31	2.97	99.0	6.82	5974.2	18.95	58.08
052521018	MW-415B	05/25/2021	0.56 U	22.2	0.30 U	2.0 U	116 U	0.47 U	2.4 U	0.066 U	0.63 U	0.25 U	250	1,620,000	0.58 U	2.29	6.14	99.2	7.44	2422.4	17.24	0.00
052521016	MW-416	05/25/2021	5.6 U	233	3.0 U	20.4 U	5,900	4.7 U	***2,060***	0.066 U	6.3 U	2.5 U	59 U	322,000	21.3	0.34	3.21	24.3	6.46	24783.7	19.07	0.00
052421002	MW-417	05/24/2021	*1.2* J	473	0.30 U	2.0 U	7,740	0.47 U	***689***	0.066 U	0.63 U	0.25 U	59 U	16,000	262	0.87	4.97	-70.5	6.80	10661.9	16.23	101.31
052421001	MW-418	05/24/2021	*1.1* J	307	0.55 J	2.0 U	116 U	0.72 J	***389***	0.066 U	5.1	0.25 U	2,700	70,500	30.0	6.81	6.14	200.2	6.76	4956.7	16.23	0.00
052621028 [2]	MW-401AR	05/24/2021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.31	--	--	--	--	--
052621027 [2]	MW-405A	05/24/2021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.46	--	--	--	--	--
052621029 [2]	SG01	05/24/2021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.41	--	--	--	--	--
052421008	EB01	05/24/2021	0.28 U	0.70 U	0.15 U	1.0 U	58.0 U	0.24 U	1.2 U	0.066 U	0.32 U	0.13 U	--	--	--	--	--	--	--	--	--	--
052521022	EB02	05/25/2021	0.28 U	1.3 J	0.15 U	1.0 U	58.0 U	0.24 U	1.2 U	0.066 U	0.32 U	0.13 U	--	--	--	--	--	--	--	--	--	--
052621026	TB01	05/26/2021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

	Arsenic, Total	Barium, Total	Cadmium, Total	Chromium, Total	Iron, Total	Lead, Total	Manganese, Total	Mercury, Total	Selenium, Total	Silver, 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
Total Number of Samples Analyzed:	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Number of Detections:	12	21	4	2	13	5	20	0	4	0	13	21	17	21	21	21	21	21	21	21
Min:	0.73	8.7	0.55	4.4	1,150	0.6	4.7	NA	0.94	NA	96	9,300	2.6	0.1	1.74	-198.4	6.46	868	13.33	0
Max:	67.4	762	0.79	7.6	47,100	19	2,630	NA	5.1	NA	2,700	1,620,000	5,250	6.81	8.72	200.2	9.35	24,784	19.48	101.31
WI Groundwater SL:	10	2000	5	100	NS	15	300	2	50	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed WI Groundwater SL:	1	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0	0	0	0	0
WI Groundwater PAL:	1	400	0.5	10	150	1.5	60	0.2	10	10	2000	125000	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed WI Groundwater PAL:	9	3	4	0	13	2	16	0	0	0	1	11	0	0	0	0	0	0	0	0
Tap Water RSL:	0.052	3800	9.2	22000	14000	15	430	5.7	100	94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed Tap Water RSL:	12	0	0	0	2	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0

[O:CMD 7/13/21, C:LDH 7/13/2021, C:SJM 7/14/21]

Bold	exceeds the WI Groundwater SL
Underline	attains or exceeds the WI Groundwater PAL
Italic	exceeds the Tap Water RSL
Yellow Highlighting	analyte exceedance in statistics for one or more samples
Pink Highlighting	Groundwater 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:
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, eight revisions of the RSLs have been published by EPA through May 2021. As a result of these eight revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.
PAL from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020. Results that attain or exceed the PAL are considered to be in exceedance.

Results & Flags:
-- = Analysis not performed
J = Estimated Concentration
U = Concentration was not detected above the reported limit

Acronyms:
(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter (aka micromhos per centimeter)
BRRTS = Bureau for Remediation and Redevelopment Tracking System
Deg C = degrees Celsius
EB = Equipment Blank
EPA = Environmental Protection Agency
MCL = Maximum Contaminant Level
MGP = Manufactured Gas Plant
NO2 + NO3 = nitrite plus nitrate
NS = No Screening Level/No Standard
NTU = Nephelometric Turbidity Unit
PAH = Polycyclic Aromatic Hydrocarbon
PAL = Preventive Action Limit
PVOC = Petroleum Volatile Organic Compound
RSL = Regional Screening Level
s.u. = standard units
SL = Screening Level
TB = Trip Blank
USEPA = United States Environmental Protection Agency
WI = Wisconsin

Superscripts:
1. Total Trimethylbenzenes were calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, only the detected results were added together for the total summation.
   c. Analytes used for the calculation are 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.
2. No sample collected at this location; only depth to groundwater recorded.

Field parameters were analyzed at time of sampling using an InSitu Aquatroll Multiparameter sonde.
Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Table 2. May 2021 Groundwater Sample Results Compared to VISLs

June 2021 Monthly Progress Report
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site
700 N Adams St, Green Bay, Wisconsin
BRRTS#: 02-05-000254 USEPA#: WIN000509948

			PVOC		PVOC		PVOC		PVOC		PVOC		PVOC		PAH	
9-digit Code	Sample Location	Sample Date	1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		Benzene		Ethylbenzene		Toluene		Xylene, o		Xylenes, m + p		Xylenes, Total		Naphthalene	
		Reporting Units:	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
		Groundwater VISL, Industrial:	**1,040**		**733**		**6.9**		**15**		**80,700**		**2,070**		**1,490**		**1,620**		**20**	
		Groundwater VISL, Residential:	248		175		1.6		3.5		19,200		492		355		385		4.6	
052521021	MW-401BR	05/25/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	1.9	
052521020	MW-402R	05/25/2021	15.2		0.71	U	**167**		**17.0**		3.3		11.3		17.1		28.4		**77.2**	
052621025	MW-403R	05/26/2021	29.1		3.6	U	**894**		**76.8**		22.0		55.4		65.8		121		**788**	
052621023	MW-404	05/25/2021	5.3		1.4		**77.5**		**213**		0.91	J	12.2		6.4		18.6		3.7	
052621024	MW-405B	05/26/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.22	
052521013/052521014 (N)	MW-406	05/25/2021	0.45	U	0.36	U	0.50	J	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.023	J
052421003	MW-407	05/24/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.017	U
052521015	MW-408	05/25/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.036	U
052521011	MW-409A	05/25/2021	0.45	U	0.36	U	0.95	J	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.036	J
052521012	MW-409B	05/25/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.016	U
052421006/052421007 (N)	MW-410R	05/24/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.038	J
052521009	MW-411AR	05/25/2021	1.2		0.36	U	**188**		11.6		0.60	J	0.62	J	0.70	U	1.3	J	2.5	
052521010	MW-411B	05/25/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.019	U
052421004	MW-412	05/24/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	1.6	
052421005	MW-413	05/24/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.024	J
052521019	MW-414	05/25/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.018	U
052521017	MW-415A	05/25/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.027	J
052521018	MW-415B	05/25/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.019	U
052521016	MW-416	05/25/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.016	U
052421002	MW-417	05/24/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.098	
052421001	MW-418	05/24/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.18	
052421008	EB01	05/24/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.022	U
052521022	EB02	05/25/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.017	U
052621026	TB01	05/26/2021	0.45	U	0.36	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--	
		Total Number of Samples Analyzed:	21		21		21		21		21		21		21		21		21	
		Number of Detections:	4		1		6		4		4		4		3		4		14	
		Min:	1.2		1.4		0.5		11.6		0.6		0.62		6.4		1.3		0.023	
		Max:	29.1		1.4		894		213		22		55.4		65.8		121		788	
		Groundwater VISL, Industrial:	1040		733		6.9		15		80700		2070		1490		1620		20	
		Number of Samples that Exceed Groundwater VISL, Industrial:	0		0		4		3		0		0		0		0		2	
		Groundwater VISL, Residential:	248		175		1.6		3.5		19200		492		355		385		4.6	
		Number of Samples that Exceed Groundwater VISL, Residential:	0		0		4		4		0		0		0		0		2	

[O:CMD 7/13/21, C:LDH 7/13/2021, C:SJM 7/14/21]

Only parameters with VISL will be presented; please refer to Table 1 for results for other parameters.

Bold	exceeds the Groundwater VISL, Industrial
Underline	exceeds the Groundwater VISL, Residential
Yellow Highlighting	analyte exceedance in statistics for one or more samples
Pink Highlighting	result exceeds one or more screening criteria

Statistics exclude the quality control samples (Equipment and Trip blanks)

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, eight revisions of the RSLs have been published by EPA through May 2021. As a result of these eight revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.

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PVOC = Petroleum Volatile Organic Compound
RSL = Regional Screening Level
TB = Trip Blank
USEPA = United States Environmental Protection Agency
VISL = Vapor Intrusion Screening Level