From:	Dombrowski, Frank J <frank.dombrowski@wecenergygroup.com>
Sent:	Tuesday, March 15, 2022 9:31 AM
To:	Werner.Leah@epa.gov
Cc:	Krueger, Sarah E - DNR; 'adrienne.korpela@jacobs.com'; 'staci.goetz@ramboll.com'; Luke, Glenn R
Subject:	Former WPSC Green Bay MGP - Supplemental PDI Workplan
Attachments:	PDI WP Add 2 Memo FINAL.pdf

Leah,

As discussed at our last project update call, please find attached for your review the supplemental PDI workplan for additional soil borings and sampling in the north parking lot area of OU1. At this time, we have the drillers scheduled for the week of 4/11. If we could get your feedback on the workplan in time to facilitate that schedule it would be mot appreciated. Please do not hesitate to contact me with any questions.

Thanks,

Frank Dombrowski
Principal Environmental Consultant

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

RAMBOLL

ENVIRONMENT & HEALTH

MEMO

To: Frank Dombrowski - WEC Energy Group

From: Abby Small and Staci Goetz – Ramboll

cc: Glenn Luke – WEC Energy Group

Re: Pre-Design Investigation Work Plan Addendum No. 2, Revision 0
Green Bay Former Manufactured Gas Plant, Green Bay, Wisconsin
Wisconsin Public Service Corporation

March 14, 2022

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Ref. 70721

BACKGROUND AND OBJECTIVE

Ramboll has prepared this Pre-Design Investigation Work Plan, Addendum 2 (PDIWP Addendum 2) on behalf of Wisconsin Public Service Corporation (WPSC) for a portion of the upland operable unit (OU1) of the Green Bay Former Manufactured Gas Plant (MGP). This investigation is to augment information collected under the USEPA-approved August 2020 Pre-Design Investigation Work Plan (PDIWP) (Ramboll, 2020) and support design for an early removal action in the upland north parking lot area. Soil sample collection is proposed to begin in early April 2022 pending work plan approval.

Preliminary discussions with potential developers indicate an interest in a mixed-use development on the northern portion of the property owned by WPSC, north of Utility Court and East of the Annex Building. This proposed development may consist of residential housing, commercial uses, green space and parking. By conducting an early removal action in this area in advance of development construction, WPSC will address impacted soil potentially encountered during foundation construction and potential exposure pathways the construction team or building occupants may encounter.

Based on a review of site data collected to date and the preliminary redevelopment plan for residential use, the proposed supplemental PDI activities are intended to address the remaining data gaps for the northern half of the upland portion of the site. PDI data collected will be utilized to prepare a Removal Action Work Plan (RAWP) for an early removal action in the north parking lot. For the purposes of the early removal action, removal and off-site disposal of soil identified as principal threat waste as well as removal and off-site disposal of the top four feet of surface soil in the main parking lot and removal and off-site disposal of the top two feet of surface soil in the Riverwalk area and import of clean soil to address the direct contact pathway will be proposed in a Letter of Intent that will be submitted separately.

CURRENT DATA GAPS

This supplemental PDI focuses on refining the remaining limits of principal threat waste. Because surface soil (0-4 feet in main parking lot and 0-2 feet in the Riverwalk) will be removed throughout the north parking lot, additional delineation of direct contact screening level exceedances is not proposed. For the purposes of

this PDI, a definition of principal threat waste consistent with the definition recently used at WPSC's Marinette Former MGP will be utilized (accounting for the difference in proposed land use – residential versus industrial) and will be defined as soil that meets one or more of the following metrics:

- Non-aqueous phase liquid (NAPL) identified as separated liquid.
- Oil-coated or oil-wetted soil.
- Highly adsorbed phase concentrations of constituents of concern (COCs) exceeding a lifetime incremental cancer risk (CR) of 10^{-3} or a hazard index (HI) of 10 under applicable, residential land use assumptions.

Previously installed soil borings that meet the above definition of principal threat waste are shown on Figure 1. A summary of oil-wetted or oil-coated material observed in previous soil borings is provided on Table 1. Analytical data is provided in Table 2 and Table 3. Note that data collected through May 2020 was previously reported in the September 2020 Upland Remedial Investigation Data Summary Report – Revision 0 (RI Data Summary Report) (Ramboll, 2020b). PDI data collected between September 2020 and November 2020 has been provided in monthly progress reports to USEPA, but not in a formal report. All data were submitted to USEPA via email transmittal on March 1, 2022. Following the implementation of this work plan, a full synopsis of September 2020 through April 2022 sampling activities and results including risk calculations will be provided in a PDI Evaluation Report included with the RAWP. A full discussion of sampling and results are not provided herein. Results are reported as necessary to understand proposed additional PDI data collection activities.

As shown on Figure 1, the extent of principal threat waste is generally limited to the areas surrounding former Excavation Area 3. The following data gaps have been identified as the preliminary remedial action design for an early removal action Letter Of Intent (LOI) is being initiated:

- Refine the limits of principal threat waste identified for removal and off-site disposal. The following borings are proposed to address this data gap:
    - Two additional borings (SB-612 and SB-613) to the southwest of borings SB-553 and SB-589 to bound the oil-wetted/oil-coated remedial area.
    - Although oil-wetted/oil-coated material was not identified in the sidewall samples of Excavation Area 4 (Figure 1), the adsorbed phase COCs exceed a Residential HI of 10 (risk calculations provided in the RI Data Summary Report) primarily driven by concentrations of total cyanide. The extents of the Residential HI>10 are delineated by borings SB-403 and SB-404, but further refinement through the installation of SB-617, SB-618, and SB-619 is proposed to define the scope of the remedial action in this area.
- Determine if principal threat waste remains within Excavation Area 3 or has re-affected the thermally treated soil backfill placed during the 2003 remedial action. Monitoring well MW-411AR is screened mainly within the thermally treated backfill within Excavation Area 3 (Figure 2). As reported in the RI Data Summary Report, concentrations of benzene exceed Wisconsin Groundwater Risk Assessment Framework (RAF) Screening Levels (SLs). While the concentrations have remained stable with time, they remain above the SL. Based on these groundwater concentrations, it is unknown whether principal threat waste either remains within Excavation Area 3 (e.g. within clay fractures) or has re-affected the thermally treated soil backfill. Three soil borings (SB-614, SB-615, and SB-616) are proposed to be installed within Excavation Area 3 to address this data gap.
- Confirm the absence of principal threat waste in areas where limited investigation has occurred, and redevelopment is slated to occur (i.e. gas holder and the southeast corner of the north parking lot –

Figure 1). Nine soil borings (SB-609, SB-610, SB-611, SB-620, SB-621, SB-622, SB-623, SB-624, and SB-625, Figure 1) are proposed to address this data gap.

PROPOSED SUPPLEMENTAL SAMPLING ACTIVITIES

Based on the discussion above, additional investigation will be performed to complete delineation of the nature and extent of principal threat waste. The supplemental PDI activities described below will be performed in accordance with the site-specific information included in the Site Specific Work Plan (SSWP), Revision 2 (NRT, 2015A; NRT, 2015B), the Multi-Site Field Sampling Plan (FSP) – Revision 4 (IBS, 2008), and the PDIWP Revision 1 (Ramboll, 2020a), except where noted.

Soil Boring Advancement and Sampling Methods

Soil borings will be installed at the primary and secondary soil boring locations where data gaps have been identified as shown on Figure 1 and described above. Both primary and secondary soil borings will be advanced in the field and soil samples will be collected to limit the number of mobilizations needed of the drill rig. Soil samples collected from the primary borings will be run for laboratory analysis as described below. Soil samples collected from the secondary borings will be submitted to the analytical laboratory and placed on hold[1] pending the results of the primary soil borings. The vertical and horizontal extent evaluation will involve advancing soil borings for visual observations and evaluation of analytical exceedances of risk threshold criteria. Soil borings will be advanced using a direct-push method. Unless otherwise noted, sampling will be continuous, to define the presence/absence and vertical extent of affected soil at each boring location and extend a minimum of 5-ft into confining clay layer or to a depth of 20-ft bgs, whichever is achieved first. For the purpose of guiding PDI fieldwork, the vertical and horizontal extent of principal threat waste will be considered delineated if:

- no oil-coated or oil-wetted observations are present for two consecutive sample intervals (e.g., 4-feet) or into top of clay; and
- for the evaluation of risk criteria, a Residential CR is less than 10^{-3} and Residential HI is less than 10 within one sample interval.

All borings advanced as part of the PDI will be continuously logged, following Multi-Site standard operating procedure (SOP) SAS-05-02, the presence of fill material, moisture content, photoionization detector readings, the nature of each geologic unit encountered, and visual and olfactory observations indicating the presence of NAPL (e.g., oil-coated, or oil-wetted). Soil boring locations will be recorded per Multi-Site SOP SAS-03-03, and will be abandoned following the methods described in Multi-Site SOP SAS-05-05. Field equipment will be calibrated prior to use, as required by Multi-Site SOP SAS-02-01 from the Multi-Site FSP.

Subsurface soil samples will be collected from all delineation borings as follows:

- For borings that show no visual, olfactory, or photoionization detector (PID) indication of impacts, one sample within the 2-foot interval above the clay confining layer will be collected.
- For borings that indicate the presence of contamination (through visual, olfactory, or PID indication), a sample of impacted material will be collected. A second sample will also be collected below the interval(s)

[1] Analytes that could potentially exceed their hold times while the samples from primary borings are being analyzed will be extracted so hold times will not be exceeded for the samples collected from secondary borings.

of potential MGP residuals, to document vertical extent. A third sample will be collected from within the 2-foot interval above the clay confining layer if not included in the other samples.

No samples will be collected from the surface interval (0-4 ft) because the surface interval is slated for removal and offsite disposal as part of the early removal action.

All soil samples will be submitted to a Wisconsin certified laboratory (Pace Analytical of Green Bay, Wisconsin or EurofinsTest America, Chicago, IL)[2] for constituents of potential concern (COPCs) identified in the SSWP Revision 2 including:

- Petroleum volatile organic compounds (PVOCs) via USEPA Method 8260 (Benzene, Ethylbenzene, Toluene, Total Xylenes, 1,2,4-Trimethylbenzene)
- Polycyclic aromatic hydrocarbons (PAHs) via USEPA Method 8270 (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 Metals via USEPA Method 6020A (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) and total mercury via USEPA Method 7471.
- Total cyanide via USEPA Method 9012B

A sampling and analysis plan summary is presented in Table 4.

Quality control (QC) samples will be collected as required by Multi-Site FSP SOP SAS-04-03. Samples will be labeled and packaged in accordance with Multi-Site FSP SOP SAS-03-01 and shipped using chain-of-custody procedures described in Multi-Site FSP SOP SAS-03-02. Equipment will be decontaminated after use in accordance with Multi-Site FSP SOP SAS-04-04.

Schedule and Reporting

Soil sample collection is proposed to begin in early April 2022 pending work plan approval. Results of the supplemental PDI will be presented in a PDI Evaluation Report included with the RAWP for early removal action.

References

Integrys Business Support, 2008. Multi-Site Field Sampling Plan, Revision 4, Remedial Investigation/Feasibility Study, Former Manufactured Gas Plant Sites, CERCLA V-W-06-C-847. September.

NRT, 2015a. Site Specific Work Plan Revision 2, Green Bay Former MGP, Green Bay, Wisconsin. March 20.

NRT, 2015b. Site Specific Work Plan Revision 2, Modified October 2015, Green Bay Former MGP, Green Bay, Wisconsin. October 9.

Ramboll, 2020a. Pre-Design Investigation Work Plan Revision 1, Former Green Bay Manufactured Gas Plant Site. August 12.

[2] Expedited turn around times will be requested. The laboratory will be selected based on ability to support requested turn around times to meet WPSC goals for incorporating validated PDI results evaluation into the early removal action RAWP.

Ramboll, 2020b. Upland Remedial Investigation Data Summary Report, Former Green Bay Manufactured Gas Plant Site Operable Unit 1. September 18.

Attachments

Figure 1 – Principal Threat Waste Observations and Proposed Sample Location Map
Figure 2 – Shallow Groundwater Benzene Isoconcentration Map
Table 1 – Summary of Post-Excavation Oil-Wetted/Oil-Coated Observations in the North Parking Lot
Table 2 – Soil SVOCs Analytical Results Compared to Residential and Industrial SLs - North Parking Lot
Table 3 – Soil VOCs and Inorganic Analytical Results Compared to Residential and Industrial SLs - North Parking Lot
Table 4 – Sampling and Analysis Plan

FIGURES

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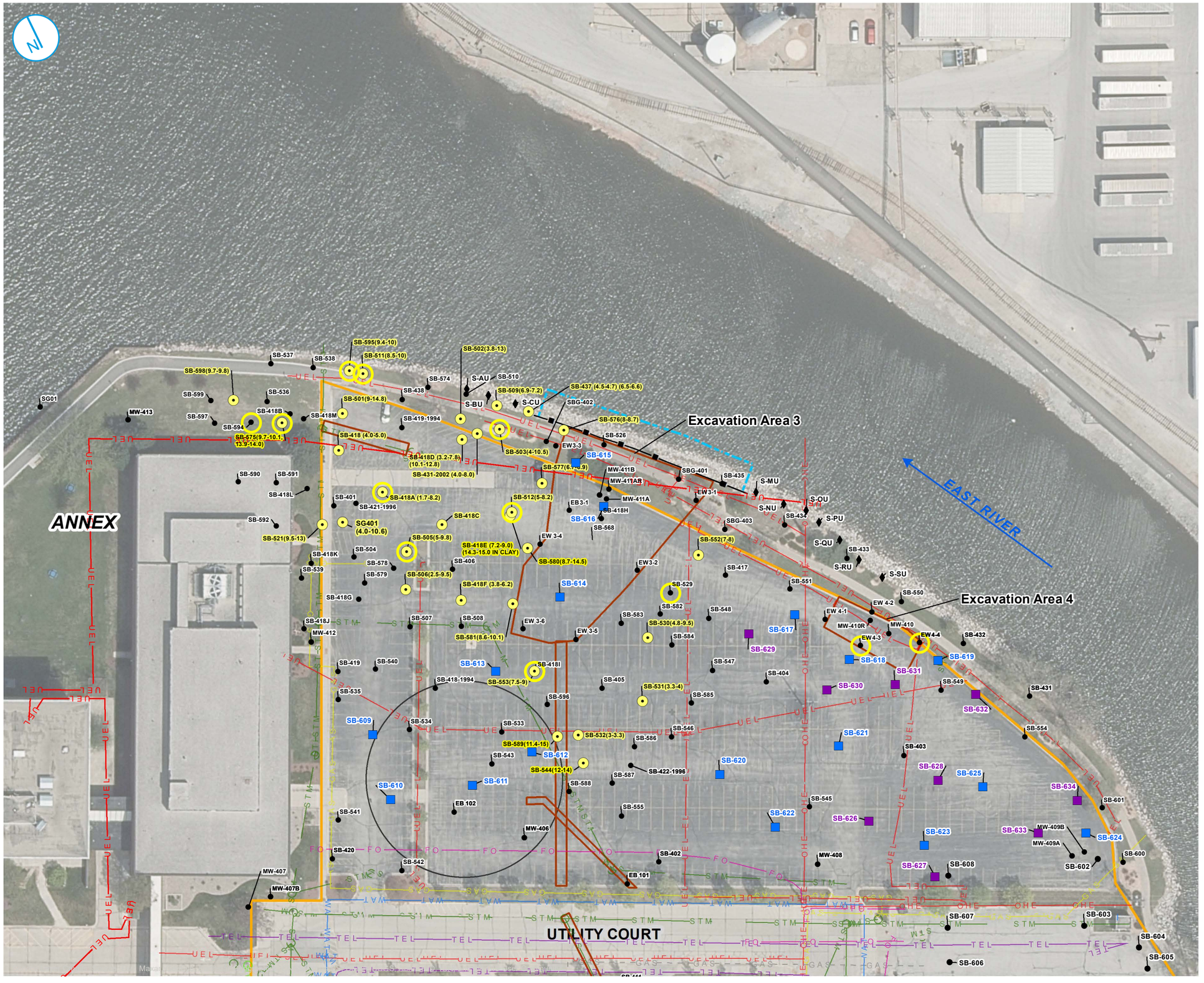

- OIL WETTED-COATED MATERIAL
- SOIL BORING LOCATION
- 2017 VISUAL BORING - NO OIL-WETTED/OIL-COATED MATERIAL OBSERVED
- RESIDENTIAL CANCER RISK > 1E-3 OR HAZARD INDEX >10
- SHEET PILE WALL
- SHORELINE EXCAVATION EXTENT (REMEDIAL ACTION COMPLETED IN 2018)
- FORMER STRUCTURE
- SOIL REMEDIATION EXCAVATION AREAS (2003)
- RIVER FLOW DIRECTION
- CAP MAINTENANCE
- PRIMARY PROPOSED SOIL BORING
- SECONDARY PROPOSED SOIL
- FO — FIBER OPTIC LINE
- GAS — GAS LINE
- SAN — SANITARY SEWER LINE
- STM — STORM SEWER LINE
- TEL — TELEPHONE LINE
- WAT — WATER LINE
- UEL — UNDERGROUND ELECTRIC LINE
- OHE — OVERHEAD ELECTRIC LINE
- GAS — ABANDONED GAS LINE

SB418 (4.0-5.0) SAMPLE ID AND INTERMITTENT NAPL DEPTH IN FEET BELOW GROUND SURFACE

0 35 70 Feet

PRINCIPAL THREAT WASTE OBSERVATIONS AND PROPOSED SAMPLE LOCATION MAP

FIGURE 1

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

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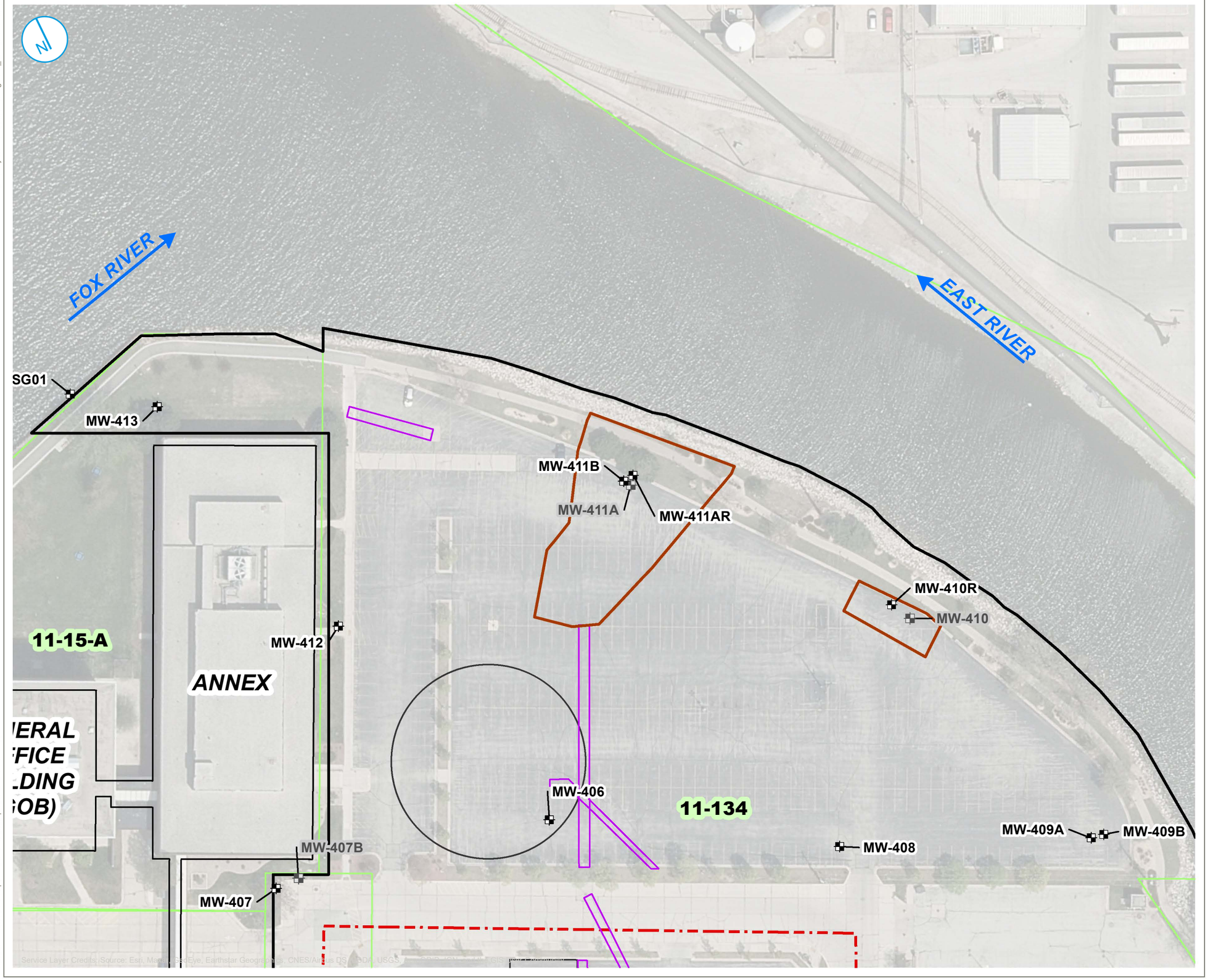

- MONITORING WELL/STAFF GAUGE LOCATION
- ABANDONED MONITORING WELL LOCATION
- FORMER STRUCTURE
- SOIL REMEDIATION EXCAVATION AREAS (2003)
- SOIL REMEDIATION MGP PIPING RUNS
- UPLAND SITE BOUNDARY
- FORMER MGP
- BUILDING FOOTPRINT
- TAX PARCEL

0 35 70 Feet

GROUNDWATER MONITORING LOCATIONS - NORTH PARKING LOT

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

FIGURE 2

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

PROJECT: 169000XXXX | DATED: 3/10/2022 | DESIGNER: ASMALL

TABLES

Table 1. Summary of Post-Excavation Oil-Wetted/Oil-Coated Observations in the North Parking Lot

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Steet, Green Bay, WI 54307
BRRTS# 02-05-000254 USEPA# WIN000509948

Location ID	Top of Interval (ft bgs)	Bottom of Interval (ft bgs)	NAPL Observation	NAPL above Native Clay	NAPL in Native Clay
Historical and Remedial Investigation Borings					
SB-418	4.0	5.0	slight odor, oil-wetted in the form of weathered tar-like material with taffy-like texture at bottom of sleeve	Y	N
SB-418A	1.7	6.2	odor, oil-wetted	N	N
SB-418A	6.2	7.2	odor, oil-wetted, sheen	N	N
SB-418A	7.2	8.2	odor, oil-wetted	N	N
SB-418C	4.8	5.0	odor, stained, oil-wetted, weathered tar-like material	Y	N
SB-418C	5.0	6.2	odor, oil-wetted in the form of weathered tar-like material	Y	N
SB-418C	6.2	10.7	odor, oil-wetted, sheen	Y	N
SB-418D	3.2	6.5	odor, stained to oil-wetted	Y	N
SB-418D	6.5	6.9	strong odor, oil-wetted	Y	N
SB-418D	6.9	7.8	odor, oil-wetted in the form of trace droplets	Y	N
SB-418D	10.1	12.8	strong odor, oil-wetted, sheen	Y	N
SB-418E	7.2	9.0	strong odor, stained, oil-wetted wood (produces droplets when squeezed)	Y	N
SB-418E	14.3	15.0	no odor, trace weathered tar-like material in fractures (larger fractures may have droplets of liquid material in center of weathered material)	N	Y
SB-418F	3.8	4.1	odor, stained, oil-wetted in the form of weathered tar-like material	Y	N
SB-418F	4.1	6.2	odor, oil-coated	Y	N
SB-431-2002	4.0	8.0	Oil stained/wetted SAND, odor.	Y	N
SB-437	4.5	4.7	no odor, oil-wetted weathered tar-like material	Y	N
SB-437	6.5	6.6	no odor, oil-wetted weathered tar-like material in 1/2-inch lens	Y	N
SG-401	4.0	10.0	slight odor, oil-wetted	Y	N
SG-401	10.0	10.6	slight odor, oil-wetted, slight sheen	Y	N
Pre-Design Investigation Borings					
PDI-SB-501	9.0	11.0	oil-wetted (60-80%), 1-5mm fluid droplets, oil-coated (30-50%), sheen (0-20%), moderate odor	Y	N
PDI-SB-501	11.0	14.8	oil-coated (30-50%), 1-5mm, sheen (0-10%), moderate odor	Y	N
PDI-SB-502	3.8	6.5	oil-coated (70-90%), strong odor	Y	N
PDI-SB-502	6.5	7.5	oil-wetted to oil-coated (70-90%)	Y	N
PDI-SB-502	7.5	13.0	oil-wetted (10-30%),1-10mm fluid droplets, oil-coated (30-50%), sheen (0-20%)	N	Y
PDI-SB-503	4.0	7.0	oil-coated (30-50%), moderate odor	Y	N
PDI-SB-503	7.0	10.5	oil-coated (60-80%), strong odor	Y	N
PDI-SB-505	5.0	6.2	oil-wetted (0-20%), fluid droplets in wood, oil-coated (30-50%), moderate odor	Y	N
PDI-SB-505	6.2	9.0	oil-coated (40-60%), moderate odor	Y	N
PDI-SB-505	9.0	9.8	oil-wetted (20-40%), fluid droplets	Y	N
PDI-SB-506	2.5	6.0	oil-coated (20-40%), strong odor	Y	N
PDI-SB-506	6.0	9.5	oil-coated (10-30%), coating decreases with depth, faint odor	Y	N
PDI-SB-509	6.9	7.2	oil-coated (10-20%), moderate odor	Y	N
PDI-SB-511	8.5	10.0	oil-wetted, weathered (hard)	Y	N
PDI-SB-512	5.0	8.2	oil-wetted to oil-coated (70-90%), 1-10mm fluid droplets, sheen (0-20%), moderate odor	Y	N
PDI-SB-521	9.5	12.5	oil-wetted (20-40%), sheen (10-20%)	Y	N
PDI-SB-521	12.5	13.0	oil-wetted (5-10%), moderate odor	Y	N

Table 1. Summary of Post-Excavation Oil-Wetted/Oil-Coated Observations in the North Parking Lot

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Steet, Green Bay, WI 54307
BRRTS# 02-05-000254 USEPA# WIN000509948

Location ID	Top of Interval (ft bgs)	Bottom of Interval (ft bgs)	NAPL Observation	NAPL above Native Clay	NAPL in Native Clay
Pre-Design Investigation Borings					
PDI-SB-530	4.8	5.3	oil-coated (60-80%)	Y	N
PDI-SB-530	5.3	9.5	oil-coated (30-50%), moderate odor	Y	N
PDI-SB-531	3.3	4.0	oil-coated (70-90%), faint odor	Y	N
PDI-SB-532	3.0	3.3	oil-coated (70-90%), moderate odor	Y	N
PDI-SB-544	12.0	14.0	oil-wetted to oil-coated (100%) in fractures, fluid to viscous	N	Y
PDI-SB-552	7.0	8.0	oil-wetted (10-20%), staining, moderate odor	Y	N
PDI-SB-553	7.5	8.5	oil-wetted (10-20%), moderate odor	Y	N
PDI-SB-553	8.5	9.0	oil-coated (10-30%)	Y	N
PDI-SB-575	9.7	10.0	oil-coated (35-40%), sheen (100%), moderate odor	Y	N
PDI-SB-575	13.9	14.4	oil-wetted (5-10%) in 1mm to 3mm fractures, viscous, moderate odor	N	Y
PDI-SB-576	8.0	8.7	oil-coated (5-10%), pinhead sized spots, moderate to strong odor	Y	N
PDI-SB-577	6.7	6.9	Staining (30-40%), sheen (10-20%) pinhead sized spots, moderate odor	Y	N
PDI-SB-580	8.7	10.2	oil-coated (80-100%), sheen (20%) 1mm to 3mm diameter spots, moderate odor	Y	N
PDI-SB-580	10.2	11.1	sheen (20-30%) 1mm to 3mm diameter spots	Y	N
PDI-SB-580	11.1	14.5	oil-wetted (0-5%) fractures 1mm to 3mm thick, faint odor	N	Y
PDI-SB-581	8.6	10.1	sheen (0-5%), pinhead size spots, moderate odor	Y	N
PDI-SB-589	11.4	15.0	oil-wetted (0-5%) in 2mm to 4mm diameter fractures, faint odor	N	Y
PDI-SB-595	9.4	10.0	oil-coated (0-5%), 1mm to 2mm spots, brown (10YR 3/3) staining (10-15%), moderate to strong odor	N	Y
PDI-SB-598	9.7	9.8	oil-coated (0-5%) 1mm to 2mm spots, staining (0-5%), faint to moderate odor	N	Y

Notes:

bgs = below ground surface
ft = foot/feet
N = no
NAPL = non-aqueous phase liquid
Y = yes

Table 2. Soil SVOCs Analytical Results Compared to Residential and Industrial SLs - North Parking Lot

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Street, Green Bay, WI 54307
BRRTS# 02-05-000254 | USEPA# WIN000509948

9-digit Code	Sample Location	Sample Depth (feet-BGS)	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		Phenol Phenol		Phenol Phenolics, Total Recoverable	
			Reporting Units:	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
				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 Industrial Soil SLs:	**73**		**3,000**		**45,000**		**45,000**		**100,000**		**21**		**2.1**		**21**		**23,000**		**210**		**2,100**		**2.1**		**30,000**		**30,000**		**21**		**8.6**		**100,000**		**23,000**		**100,000**		**NS**	
			WI Residential Soil SLs:	18		240		3,600		3,600		18,000		1.1		0.11		1.1		1,800		11		110		0.11		2,400		2,400		1.1		2		18,000		1,800		19,000		NS	
072414030	EB 101	8	04/22/2003	0.0095		0.012		0.013	U	0.021	U	0.013	U	0.0071	U	0.0071	U	0.0077	U	0.014	U	0.011	U	0.0081	U	0.0087	U	0.0094	U	0.0071	U	0.013	U	0.041		0.0094	U	0.015	U	--		0.420	U
072414031	EB 102	6	05/30/2003	0.0082	U	0.0088	U	0.013	U	0.021	U	0.013	U	0.007	U	0.007	U	0.0076	U	0.014	U	0.011	U	0.0081	U	0.0086	U	0.0093	U	0.007	U	0.013	U	0.0088	U	0.0093	U	0.015	U	--		0.190	U
072414022	EB 3-1	12	05/16/2003	0.087		0.110		0.021		0.033		0.041		0.038		0.032		0.020		0.014	U	0.025		0.033		0.0087	U	0.068		0.035		0.013	U	0.310		0.140		0.079		--		0.840	
072414016	EW 3-1	9.5	05/16/2003	1.300		0.190		0.260		0.340		0.200		0.330		0.320		0.410		0.140		0.380		0.310		0.046		0.600		0.420		0.150		0.980		0.170		0.620		--		0.940	
072414017	EW 3-2	6	05/16/2003	4.900		5.000		0.500	U	3.700		3.100		11.000		**17.000**		14.000		13.000		13.000		10.000		**3.200**		18.000		1.800		12.000		**9.700**		7.300		16.000		--		1.400	
072414018	EW 3-3	5	05/16/2003	5.100		2.400		1.300		5.800		4.400		11.000		**16.000**		11.000		7.500		11.000		9.400		**2.500**		16.000		2.900		7.800		6.400		7.100		16.000		--		1.900	
072414019	EW 3-4	10	05/16/2003	12.000		6.500		2.300		2.300		2.300		2.800		**2.400**		1.700		1.500		2.100		2.700		0.390	U	4.800		3.000		1.300		**42.000**		8.400		6.500		--		2.000	
072414020	EW 3-5	6	05/20/2003	1.300		0.690		0.230		1.500		1.300		2.900		**2.400**		2.600		1.900		2.600		3.200		0.520		4.300		0.890		1.800		3.100		3.500		5.200		--		--	
072414021	EW 3-6	3	05/20/2003	0.075		0.055		0.013	U	0.032		0.023		0.044		0.033		0.031		0.016		0.047		0.056		0.009	U	0.082		0.024		0.015		0.210		0.084		0.110		--		0.880	
072414025	EW 4-1	4.5	05/23/2003	30.000		27.000		1.400		10.000		8.000		**28.000**		**13.000**		**25.000**		13.000		20.000		35.000		**5.300**		52.000		13.000		13.000		**36.000**		62.000		69.000		--		--	
072414026	EW 4-2	4.5	05/23/2003	1.100		1.100		1.300	U	7.000		6.400		**33.000**		**33.000**		21.000		15.000		29.000		30.000		**5.900**		61.000		1.900		16.000		3.300		9.200		57.000		--		--	
072414027	EW 4-3	4.5	05/23/2003	26.000		20.000		3.800		35.000		20.000		**74.000**		**33.000**		**65.000**		45.000		86.000		100.000		**22.000**		120.000		20.000		**45.000**		**42.000**		110.000		160.000		--		--	
072414028	EW 4-4	4	05/23/2003	0.850	U	0.910	U	1.300	U	6.300		13.000		**43.000**		**41.000**		**51.000**		34.000		45.000		43.000		**9.900**		78.000		1.900		**35.000**		1.200		37.000		64.000		--		--	
101915201	HA-401	0 - 2	10/19/2015	0.180		0.257		0.0195	U	0.0139	J	0.0228		0.0452		0.0427		0.0441	J	0.0322		0.0418	J	0.0714		0.0099	J	0.0734		0.0178	J	0.0225		0.180		0.151		0.0769		--		--	
101915202	HA-402	0 - 2	10/19/2015	0.0219		0.0321		0.0186	U	0.0170	J	0.0136	J	0.0378		0.0519		0.0503	J	0.0441		0.0476	J	0.0457		0.0132	J	0.0593		0.0186	U	0.0362		0.0308		0.0361		0.0542		--		--	
101915203	HA-403	0 - 2	10/19/2015	0.0194	U	0.0194	U	0.0194	U	0.0194	U	0.0195		0.0484		0.0548		0.0848	J	0.0616		0.0715	J	0.0835		0.0173	J	0.114		0.0194	U	0.0441		0.0164	J	0.0736		0.0905		--		--	
101915204	HA-404	0 - 2	10/19/2015	0.0221		0.0448		0.0182	U	0.0134	J	0.0396		0.0898		0.108		0.128	J	0.0776		0.119	J	0.118		0.0264		0.210		0.0121	J	0.0669		0.0264		0.128		0.154		--		--	
101915205	HA-405	0 - 1.5	10/19/2015	0.0283	J	0.0530		0.0369	U	0.109		0.0937		0.277		0.303		0.435	J	0.234		0.294	J	0.379		0.0759		0.592		0.0369	U	0.208		0.0423		0.197		0.500		--		--	
101915206	HA-406	0 - 2	10/19/2015	0.0232		0.0366		0.0194	U	0.0203		0.0131	J	0.0380		0.0369		0.0614	J	0.0388		0.0479	J	0.0603		0.0139	J	0.0588		0.0194	U	0.0337		0.0923		0.0334		0.0538		--		--	
102015207	HA-407	0 - 2	10/20/2015	0.0185	UJ	0.0185	UJ	0.0185	UJ	0.0185	UJ	0.0185	UJ	0.0069	J	0.0096	J	0.0118	J	0.0071	J	0.0112	J	0.0106	J	0.0185	UJ	0.0159	J	0.0185	UJ	0.0185	UJ	0.0185	UJ	0.0185	UJ	0.0128	J	--		--	
102015208	HA-408	0 - 2	10/20/2015	0.0815		0.114		0.0377	U	0.283		0.143		0.371		0.369		0.523	J	0.352		0.495	J	0.494		0.126		0.573		0.0196	J	0.326		0.190		0.244		0.578		--		--	
102015209	HA-409	0 - 2	10/20/2015	0.0290		0.0434		0.0188	U	0.114		0.0580		0.224		0.258		0.270	J	0.188		0.301	J	0.286		0.0685		0.296		0.0188	U	0.168		0.0703		0.0942		0.316		--		--	
102015210	HA-410	0 - 2	10/20/2015	0.0680	J	0.105		0.0919	U	0.535		0.302		0.956		0.669		1.180	J	0.570		1.080	J	1.340		0.209		1.690		0.0566	J	0.558		0.151		0.748		1.860		--		--	
102015211/102015212 (N)	HA-411	0 - 2	10/20/2015	0.0765	U	0.0765	U	0.0765	U	0.129		0.160		0.723		0.868		1.050	J	0.499		0.746	J	0.911		0.168	J	1.600		0.189	U	0.474		0.0764	J	0.513		1.310		--		--	
072414049	MW-406	1 - 3	11/13/1994	--		--		0.040	U	0.080	U	0.020		0.120		0.140		0.052		0.610		0.067		0.091		0.004	U	0.240		0.016	U	0.240		3.200		0.067		0.120		0.130	U	--	
072414051	MW-408	3 - 5	11/13/1994	--		--		0.080	U	0.160	U	0.430		2.100		0.980		0.730		1.700		0.970		1.300		0.008	U	4.400		0.630		0.770		**11.000**		4.100		1.500		0.130	U	--	
072414052	MW-409A	5 - 7	11/14/1994	--		--		0.080	U	0.160	U	1.900		20.000		**10.000**		7.300		15.000		5.700		9.500		0.008	U	17.000		0.200		7.000		**13.000**		3.500		4.600		0.230		--	
072414055	MW-411B	27 - 29	11/15/1994	--		--		0.080	U	0.080	U	0.016	U	0.004	U	0.016	U	0.004	U	0.008	U	0.004	U	0.008	U	0.004	U	0.016	U	0.320	U	0.008	U	0.080	U	0.032	U	0.016	U	0.140		--	
072414056	MW-412	4 - 6	11/12/1994	--		--		0.040	U	0.080	U	0.008	U	0.002	U	0.008	U	0.002	U	0.004	U	0.002	U	0.004	U	0.004	U	0.008	U	0.016	U	0.004	U	0.040	U	0.016	U	0.008	U	0.130	U	--	
072414057	MW-413	1 - 3	11/22/1994	--		--		0.080	U	0.160	U	0.032		0.058		0.055		0.035		0.086		0.012		0.038		0.008	U	0.290		0.320	U	0.067		0.330		0.420		0.017		0.310		--	
072414067	SB-401	3 - 5	11/12/1994	--		--		0.080	U	0.160	U	1.600		8.400		**2.800**		1.500		4.100		0.780		3.300		0.008	U	8.800		2.600		1.500		**15.000**		9.100		2.100		0.510		--	
072414068	SB-402	3 - 5	11/12/1994	--		--		0.040	U	0.080	U	0.056		0.560		0.410		0.240		0.680		0.190		0.310		0.004	U	0.610		0.016	U	0.240		0.410		0.150		0.400		0.310		--	
072414069	SB-403	3 - 5	11/12/1994	--		--		0.080	U	0.160	U	0.099		0.820		0.730		0.460		1.100		0.430		0.570		0.008	U	1.200		0.320	U	0.570		0.620		0.270		0.770		0.130		--	
072414070	SB-404	1 - 3	11/12/1994	--		--		0.040	U	0.080	U	0.015		0.042		0.035		0.018		0.033		0.0068		0.030		0.004	U	0.084		0.016	U	0.030		0.110		0.035		0.027		0.130	U	--	
072414071	SB-405	3 - 5	11/12/1994	--		--		0.040	U	0.080	U	1.300		5.200		**5.400**		1.900		4.700		2.000		3.200		0.004	U	13.000		1.200		2.300		4.500		8.300		6.900		0.290		--	
072414072	SB-406	3 - 5	11/12/1994	--		--		0.040	U	0.080	U	1.300		4.000		**3.300**		1.200		3.000		0.620		2.300		0.004	U	11.000		4.500		1.700		3.900		10.000		3.200		0.510		--	
072414083	SB-417	1 - 3	12/01/1994	--		--		0.040	U	0.080	U	0.008	U	0.0038		0.008	U	0.0035		0.032		0.0072		0.004	U	0.004	U	0.008	U	0.016	U	0.0065		0.040	U	0.016	U	0.008	U	0.130	U	--	
101915101	SB-418	1 - 2	10/19/2015	0.679		1.070		0.126		1.160		0.538		1.700		**2.880**		2.940	J	2.450		1.920	J	1.850		0.693		2.280		0.110		2.010		1.560		0.825		2.400		--		--	
101915102	SB-418	4 - 6	10/19/2015	**170.000**		143.000		16.400		128.000		115.000		**64.900**		**48.600**		**23.200**	J	18.700		38.700	J	66.400		**7.670**	J	113.000		98.200		15.800		**147.000**		318.000		146.000		--		--	
101915103	SB-418	9 - 10	10/19/2015	0.499		0.196		0.422		0.0308	U	0.0759		0.0308	U	0.0308	U	0.0308	U	0.0308	U	0.0308	U	0.0308	U	0.0308	U	0.0996		0.105		0.0308	U	0.311		0.299		0.0661		--		--	
072414084	SB-418-1994	3 - 5	12/01/1994	--		--		1.600	U	1.600	U	1.000		4.200		**4.900**		2.000		5.100		2.100		3.000		0.160	U	11.000		0.440		2.800		**9.600**		4.700		8.600		0.380		--	
101915113/101915114 (N)	SB-418A	4 - 6	10/19/2015	**365.000**	J	515.000	J	35.700	U	35.700	U	20.600	J	**38.600**		**25.000**	J	20.800	J	17.100	J	30.400	J	42.600		35.700	U	77.900	J	18.100	J	15.500	J	**1.170**		90.300		74.600		--		--	
101915115	SB-418A	13 - 15	10/19/2015	0.0208	UJ	0.0208	UJ	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0208	U	0.0128	J	0.0208	U	0.0208	U	--		--	
101915116	SB-418B	4 - 6	10/19/2015	0.0883		0.124		0.125		0.232		0.243		0.457		0.651		0.604	J	0.390		0.461	J	0.489		0.124		0.667		0.0697		0.372		0.846		0.282		0.576		--		--	
101915117	SB-418C	13 - 15	10/19/2015	0.0199		0.0280		0.0117	J	0.0198	U	0.0135	J	0.0103	J	0.0088	J	0.0198	U	0.0198	U	0.0198	U	0.0111	J	0.0198	U	0.0173	J	0.0198	U	0.0198	U	0.0621		0.0355		0.0198	J	--		--	
102115158	SB-418D	13 - 15	10/21/2015	0.0206	U	0.0206	U	0.0206	U	0.0206	U	0.0206	U	0.0080	J	0.0206	U	0.0206	U	0.0206	U	0.0206	U	0.0114	J	0.0206	U	0.0153	J	0.0206	U	0.0206	U	0.0182	J	0.0124	J	0.0188	J	--		--	
102115159	SB-418E	18 - 20	10/21/2015	0.0578		0.0724		0.0444		0.0194	J	0.0409		0.0301		0.0256		0.0137	J	0.0174	J	0.0207	J	0.0347		0.0208	U	0.0532		0.0303		0.0093	J	0.301		0.113		0.0654		--		--	
102115161	SB-418F	8 - 10	10/21/2015	23.800	J	44.100		25.600	U	25.600	U	25.600	U	25.600	U	25.600	U	25.600	U	25.600	U	25.600	U	25.600	U	25.600	U	25.600	U	25.600	U	25.600	U	**617.000**		25.600	U	25.600	U	--		--	
102115162	SB-418F	13 - 15	10/21/2015	0.0264	J	0.0502		0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.0409	U	0.803		0.0409	U	0.0409	U	--		--	
102115163/102115164 (N)	SB-418G	13 - 15	10/21/2015	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0197	U	0.0402		0.0197	U	0.0197	U	--		--	
102115165	SB-418H	4 - 6	10/21/2015	1.320		1.810		0.635		0.572		1.750		1.370		1.010		0.703	J	0.479		0.982	J	1.530		0.208		2.850		1.020		0.442		4.230		5.680		3.120		--		--	

Table 2. Soil SVOCs Analytical Results Compared to Residential and Industrial SLs - North Parking Lot

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Street, Green Bay, WI 54307
BRRTS# 02-05-000254 | USEPA# WIN000509948

				PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		Phenol		Phenol	
9-digit Code	Sample Location	Sample Depth (feet-BGS)	Sample Date	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		Phenol		Phenolics, Total Recoverable	
			Reporting Units:	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
				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 Industrial Soil SLs:	**73**		**3,000**		**45,000**		**45,000**		**100,000**		**21**		**2.1**		**21**		**23,000**		**210**		**2,100**		**2.1**		**30,000**		**30,000**		**21**		**8.6**		**100,000**		**23,000**		**100,000**		**NS**	
			WI Residential Soil SLs:	18		240		3,600		3,600		18,000		1.1		0.11		1.1		1,800		11		110		0.11		2,400		2,400		1.1		2		18,000		1,800		19,000		NS	
102115166	SB-418I	7 - 9	10/21/2015	4.260		0.144	J	1.460		0.314		0.834		1.660		1.400		1.470	J	1.200		1.680	J	1.850		0.336		4.000		0.623		1.080		0.934		0.879		3.420		--		--	
102115167	SB-418I	13 - 15	10/21/2015	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	--		--	
020816001	SB-418J	6 - 8	02/08/2016	2.820		4.070		0.206	U	0.185	U	0.214	U	0.480		0.413	U	0.413	U	0.413	U	0.229	U	0.948	J	0.151	U	0.445		0.206	U	0.157	U	2.850		3.010		0.875		--		--	
020816002	SB-418J	12 - 14	02/08/2016	0.0100	U	0.0100	U	0.0100	U	0.0090	U	0.0104	U	0.0070	U	0.0072	U	0.0100	U	0.0077	U	0.0111	U	0.0093	U	0.0074	U	0.0100	U	0.0100	U	0.0076	U	0.0100	U	0.0100	U	0.0100	U	--		--	
020816003	SB-418K	8 - 10	02/08/2016	1.280	J	1.680	J	0.853	U	0.763	U	5.260		9.730		**8.600**		7.180	J	4.240	J	7.410	J	11.500		1.710	U	24.900		1.640	J	4.010	J	1.370	J	15.600		22.500		--		--	
020816004	SB-418K	16 - 18	02/08/2016	0.0104	U	0.0104	U	0.0104	U	0.0093	U	0.0108	U	0.0079	J	0.0209	U	0.0104	U	0.0080	U	0.0116	U	0.0209	U	0.0077	U	0.0164	J	0.0104	U	0.0079	U	0.0104	U	0.0104	U	0.0157	J	--		--	
020816005/020816006 (N)	SB-418L	8 - 10	02/08/2016	2.920	J	4.260	J	0.0491	U	0.352	J	0.0713	J	0.715	J	0.143	J	0.556	J	0.132	J	0.482	J	1.100	J	0.0982	U	0.852	J	0.272	J	0.0982	U	3.910	J	2.160	J	1.150	J	--		--	
020816007	SB-418L	10 - 12	02/08/2016	0.468	J	0.453	U	1.730		0.456	J	2.750		2.470		**2.400**	J	1.260	J	1.160	J	1.890	J	2.740	J	0.906	U	5.170		1.330		0.974	J	0.453	U	6.740		6.150		--		--	
020816008	SB-418L	14 - 15	02/08/2016	0.0109	J	0.0103	U	0.0416		0.0092	U	0.0371		0.0317		0.0472	J	0.0357	J	0.0275	J	0.0309	J	0.0406	J	0.0206	U	0.0660		0.0241		0.0257	J	0.0103	U	0.0683		0.0709		--		--	
020816009	SB-418M	8 - 10	02/08/2016	0.0122	U	0.0122	U	0.0122	U	0.0109	U	0.0126	U	0.0084	U	0.0087	U	0.0122	U	0.0093	U	0.0135	U	0.0113	U	0.0089	U	0.0122	U	0.0122	U	0.0093	U	0.0122	U	0.0122	U	0.0122	U	--		--	
020816010	SB-418M	10 - 12	02/08/2016	0.0342		0.0104	U	0.0933		0.0393		0.173		0.178		0.232		0.164	J	0.134		0.182	J	0.191		0.0376	J	0.453		0.0721		0.120		0.0440		0.262		0.360		--		--	
101915107	SB-419	1 - 3	10/19/2015	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0245		0.0185	U	0.0185	U	--		--	
101915108	SB-419	3 - 5	10/19/2015	4.340		7.160		1.090	U	5.700		3.980		12.800		**20.900**		**28.900**	J	18.800		21.900	J	15.600		**6.390**		11.900		0.748	J	19.100		**26.900**		5.400		12.400		--		--	
072414085	SB-419-1994	1 - 3	12/02/1994	--		--		1.600	U	3.200	U	5.400		**37.000**		**8.800**		6.200		14.000		5.800		14.000		0.160	U	29.000		7.000		3.900		**95.000**		26.000		1.700		2.200		--	
101915109	SB-420	1 - 3	10/19/2015	0.0170	U	0.0170	U	0.0170	U	0.0170	U	0.0170	U	0.0109	J	0.0117	J	0.0134	J	0.0110	J	0.0120	J	0.0149	J	0.0170	U	0.0234		0.0170	U	0.0083	J	0.0170	U	0.0136	J	0.0212		--		--	
101915110	SB-420	3 - 5	10/19/2015	0.720	J	0.917	J	1.380		1.080	U	3.490		12.800		**22.000**		16.400	J	12.100		16.000	J	12.600		**6.630**		12.000		0.799	J	13.600		0.946	J	7.130		10.200		--		--	
102015130	SB-431	0 - 2	10/20/2015	0.0912	U	0.109	J	0.0912	U	0.472		0.447		1.550		1.510		1.370	J	0.600		1.330	J	1.470		0.256		2.500		0.0475	J	0.654		0.250	J	0.505		2.180		--		--	
102015131	SB-431	4 - 6	10/20/2015	0.200	J	0.355	J	0.116	U	1.700		0.678		1.580		1.280		2.350	J	1.310		1.680	J	2.370		0.501		2.360		0.137		1.190		0.423	J	1.450		2.760		--		--	
102015128	SB-432	0 - 2	10/20/2015	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0185	U	0.0269		0.0287		0.0365	J	0.0208		0.0281	J	0.0352		0.0074	J	0.0546		0.0185	U	0.0184	J	0.0185	U	0.0261		0.0472		--		--	
102015129	SB-432	4 - 6	10/20/2015	0.315		0.0685	J	0.0405	U	0.301		0.219		0.690		0.609		0.657	J	0.273		0.577	J	0.710		0.122		1.110		0.0351	J	0.300		0.162	J	0.305		1.080		--		--	
102015132	SB-433	0 - 2	10/20/2015	0.0180	U	0.0227	J	0.0180	U	0.0111	J	0.0164	J	0.0439		0.0502		0.0606	J	0.0416		0.0602	J	0.0611		0.0126	J	0.0955		0.0180	U	0.0331		0.0180	U	0.0507		0.0799		--		--	
102015133	SB-433	3 - 5	10/20/2015	0.392	U	0.392	U	0.449		0.392	U	0.727		2.210		**4.040**		4.130	J	2.900		3.590	J	3.050		1.010		2.860		0.392	U	2.570		0.392	U	2.740		2.770		--		--	
102015134	SB-434	0 - 2	10/20/2015	0.0184	U	0.0265	J	0.0184	U	0.0184	U	0.0143	J	0.0350		0.0406		0.0416	J	0.0302		0.0439	J	0.0456		0.0092	J	0.0719		0.0184	U	0.0250		0.0198	J	0.0453		0.0611		--		--	
102015135	SB-434	8 - 10	10/20/2015	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	0.0285	U	--		--	
102015136	SB-435	0 - 2	10/20/2015	0.0196	U	0.0196	U	0.0196	U	0.0196	U	0.0196	U	0.0131	J	0.0166	J	0.0204	J	0.0160	J	0.0156	J	0.0192	J	0.0196	U	0.0226		0.0196	U	0.0097	J	0.0196	U	0.0108	J	0.0221		--		--	
102015137	SB-435	13 - 15	10/20/2015	0.252		0.0547	J	0.0699		0.0853		0.177		0.175		0.203		0.184	J	0.0830		0.154	J	0.204		0.0309		0.316		0.0970		0.0820		0.637		0.281		0.353		--		--	
102115154	SB-437	0 - 2	10/21/2015	0.247		0.368		0.0368	J	0.470		0.337		0.696		0.753		0.777	J	0.383		0.688	J	0.822		0.156		0.955		0.0810		0.361		0.758		0.799		1.130		--		--	
102115155/102115156 (N)	SB-437	4 - 6	10/21/2015	11.300	J	11.700	J	1.790	J	7.050	J	13.000	J	8.060	J	**5.760**	J	4.590	J	2.050	J	4.190	J	9.100	J	1.180	J	13.100	J	6.340	J	1.990	J	7.470	J	42.400	J	18.700	J	--		--	
102115157	SB-437	13 - 15	10/21/2015	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	0.0213	U	--		--	
102115152	SB-438	0 - 2	10/21/2015	0.0191	U	0.0191	U	0.0191	U	0.0191	U	0.0339		0.123		0.151		0.186	J	0.0953		0.173	J	0.188		0.0322		0.384		0.0191	U	0.0893		0.0191	U	0.182		0.300		--		--	
102115153	SB-438	13 - 15	10/21/2015	3.190		5.700		0.553	J	10.100		3.680		13.300		**10.100**		14.600	J	4.440		10.600	J	15.400		**2.270**		16.500		0.743	J	4.990		**9.830**		4.730		22.500		--		--	
082720021	SB-501	11 - 13	08/27/2020	0.0042	U	0.0286	UJ	0.0037	U	0.0036	U	0.0043	J	0.0180	J	0.0131	J	0.0240	J	0.0286	UJ	0.0096	J	0.0250	J	0.0040	U	0.0339		0.0034	U	0.0066	J	0.0286	UJ	0.0286	UJ	0.0416		--		--	
082720022	SB-501	13 - 15	08/27/2020	59.800	UJ	70.900		94.600		7.530	U	72.600		**45.900**	J	**42.000**	J	**42.500**	J	59.800	UJ	21.700	J	40.100	J	8.270	U	125.000		41.100	J	20.800	J	**591.000**		162.000		87.500		--		--	
082720019	SB-502	13 - 15	08/27/2020	0.220	UJ	0.220	UJ	0.0285	U	0.0277	U	0.0273	U	0.0284	U	0.0250	U	0.0305	U	0.0385	U	0.0281	U	0.0414	U	0.0304	U	0.0260	U	0.0263	U	0.0458	U	2.650		0.0252	U	0.0323	U	--		--	
082720020	SB-502	8 - 10	08/27/2020	10.200	UJ	11.700		1.650	J	2.020	J	4.090	J	6.910	J	**6.210**	J	7.140	J	10.200	UJ	3.250	J	6.780	J	1.410	U	17.400		3.920	J	3.390	J	**123.000**		21.300		13.700		--		--	
082520001	SB-503	8 - 10	08/25/2020	**116.000**		191.000		14.300	U	65.700	J	41.200	J	**43.400**	J	**26.000**	J	**24.600**	J	19.300	U	14.100	U	26.700	J	15.200	U	69.600	J	47.200	J	22.900	U	**1,150**		143.000		72.400	J	--		--	
082520002	SB-503	13 - 15	08/25/2020	0.0053	J	0.0061	J	0.0027	U	0.0026	U	0.0026	U	0.0027	U	0.0024	U	0.0029	U	0.0037	U	0.0027	U	0.0039	U	0.0029	U	0.0025	U	0.0025	U	0.0044	U	0.0314		0.0025	J	0.0031	U	--		--	
082720023	SB-504	8 - 10	08/27/2020	7.940		3.550		2.490		0.301	U	2.360	J	0.309	U	0.271	U	0.331	U	0.419	U	0.305	U	0.450	U	0.330	U	0.283	U	2.600		0.497	U	**48.500**		6.550		0.351	U	--		--	
082720024	SB-505	8 - 10	08/27/2020	**1,420**		2,330		1,160		247.000	J	598.000	J	**406.000**	J	**284.000**	J	**235.000**	J	117.000	U	122.000	J	316.000	J	92.400	U	838.000		746.000		139.000	U	**5,970**		2,140		841.000		--		--	
082720025	SB-506	3 - 5	08/27/2020	59.900		85.200		5.470	U	5.310	U	5.230	U	13.200	J	4.790	U	6.190	J	7.390	U	5.390	U	9.730	J	5.830	U	15.400	J	7.700	J	8.780	U	**558.000**	J	42.100	UJ	42.100	UJ	--		--	
082720025/082720026 (N)	SB-506	3 - 5	08/27/2020	59.900		85.200		2.720	U	2.640	U	2.600	U	13.200	J	**2.940**	J	6.190	J	3.680	U	2.680	U	9.730	J	2.900	U	15.400	J	7.700	J	4.370	U	**558.000**	J	21.000	UJ	21.000	UJ	--		--	
082720026	SB-506	3 - 5	08/27/2020	21.000	UJ	25.400		2.720	U	2.640	U	2.600	U	6.600	J	**2.940**	J	4.170	J	3.680	U	2.680	U	5.250	J	2.900	U	7.220	J	2.900	J	4.370	U	**168.000**	J	21.000	UJ	21.000	UJ	--		--	
082720027	SB-506	8 - 10	08/27/2020	0.353		0.170		0.0207	U	0.0201	U	0.0198	U	0.0294	J	0.0181	U	0.0221	U	0.0279	U	0.0204	U	0.0300	U	0.0220	U	0.0284	J	0.0191	U	0.0332	U	1.750		0.159	UJ	0.159	UJ	--		--	
082720028	SB-507	7 - 9	08/27/2020	0.0089	U	0.0090	U	0.0090	J	0.0077	U	0.0076	U	0.0276	J	0.0279	J	0.0338	J	0.0612	UJ	0.0153	J	0.0236	J	0.0085	U	0.0451	J	0.0073	U	0.0161	J	0.0612	UJ	0.0612	UJ	0.0612	UJ	--		--	
082720029	SB-508	8 - 10	08/27/2020	0.340		0.0592		0.0106	J	0.0231	J	0.0182	J	0.0382	J	0.0674		0.0744	J	0.0533		0.0334	J	0.0367	J	0.0137	J	0.0672		0.0111	J	0.0397	J	0.531		0.0522	UJ	0.0522	UJ	--		--	
091020101	SB-509	2 - 4	09/10/2020	0.399	UJ	0.450		0.0517	U	0.711		0.410		1.150		1.700		2.160	J	2.280		0.853	J	1.490		0.442		1.760		0.123	J	1.260		0.949		1.150		1.820		--		--	
091020102	SB-509	6 - 8	09/10/2020	24.000	UJ	40.400		3.110	U	24.000	UJ	5.310	J	24.000	UJ	24.000	UJ	24.000	UJ	4.210	U	3.070	U	24.000	UJ	3.320	U	24.000	UJ	5.210	J	5.000	U	**363.000**		24.000	UJ	24.000	UJ	--		--	
091020103	SB-509	12.5 - 14.5	09/10/2020	0.218	UJ	0.292		0.0282	U	0.0274	U	0.0270	U	0.218	UJ	0.218	UJ	0.218	UJ	0.0382	U	0.0278	U	0.218	UJ	0.0301	U	0.218	UJ	0.0261	U	0.0454	U	3.690		0.218	UJ	0.218	UJ	--		--	

Table 2. Soil SVOCs Analytical Results Compared to Residential and Industrial SLs - North Parking Lot

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Street, Green Bay, WI 54307
BRRTS# 02-05-000254 | USEPA# WIN000509948

9-digit Code	Sample Location	Sample Depth (feet-BGS)	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		Phenol Phenol		Phenol Phenolics, Total Recoverable	
			Reporting Units:	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
				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 Industrial Soil SLs:	**73**		**3,000**		**45,000**		**45,000**		**100,000**		**21**		**2.1**		**21**		**23,000**		**210**		**2,100**		**2.1**		**30,000**		**30,000**		**21**		**8.6**		**100,000**		**23,000**		**100,000**		**NS**	
			WI Residential Soil SLs:	18		240		3,600		3,600		18,000		1.1		0.11		1.1		1,800		11		110		0.11		2,400		2,400		1.1		2		18,000		1,800		19,000		NS	
091020104	SB-510	2 - 4	09/10/2020	0.363	UJ	0.363	UJ	0.363	UJ	0.363	UJ	0.409		0.840		0.903		1.110	J	0.469		0.443	J	0.941		0.133	J	2.080		0.188	J	0.420		0.363	UJ	1.720		1.810		--		--	
091020105	SB-510	8 - 10	09/10/2020	64.800		45.500		10.200	UJ	14.300		25.700		**35.500**		**26.500**		**33.400**	J	16.600		13.400	J	39.900		**4.230**	J	85.200		27.400		13.700		**46.000**		132.000		89.500		--		--	
091020106	SB-510	10 - 12	09/10/2020	0.232		0.175		0.0282		0.0713		0.127		0.162		0.138		0.165	J	0.0879		0.0754	J	0.180		0.0263		0.398		0.110		0.0754		0.255		0.516		0.365		--		--	
091020107	SB-510	14 - 16	09/10/2020	1.560		1.240		0.273		0.268		0.683		0.731		0.507		0.643	J	0.300		0.279	J	0.812		0.0767	J	2.020		0.761		0.263		1.140		3.210		1.910		--		--	
091120086	SB-511	2 - 4	09/11/2020	0.422	UJ	0.422	UJ	0.0547	U	1.250		0.428		1.710		1.880		2.590	J	2.040		1.090	J	1.920		0.406	J	2.720		0.136	J	1.520		0.815		1.170		3.070		--		--	
091120087	SB-511	8 - 10	09/11/2020	**926.000**		303.000		109.000		162.000		339.000		**318.000**		**238.000**		**205.000**	J	113.000		92.600	J	343.000		**44.000**	J	618.000		623.000		**74.200**	J	**690.000**		1,730		692.000		--		--	
091120088	SB-511	17 - 18	09/11/2020	37.700		43.700		5.760		8.480		13.000		11.300		**8.140**		7.970	J	3.950		3.140	J	11.700		1.430	J	21.100		19.900		3.020		**67.800**		59.300		23.400		--		--	
082720030	SB-512	7 - 9	08/27/2020	**1,080**		1,760		992.000		112.000	J	523.000		**285.000**	J	**208.000**	J	**176.000**	J	518.000	UJ	74.800	J	236.000	J	71.600	U	556.000		456.000	J	108.000	U	**5,100**		1,490		646.000		--		--	
082720031	SB-512	9 - 10	08/27/2020	19.500		30.700		17.900		1.870	J	11.300		5.730	J	**4.070**	J	3.410	J	1.810	U	1.460	J	4.800	J	1.430	U	10.600		9.010	J	2.150	U	**102.000**		29.500		11.600		--		--	
091020082	SB-521	2 - 4	09/10/2020	0.0183	UJ	0.0183	UJ	0.0024	U	0.0183	UJ	0.0056	J	0.0299		0.0352		0.0446	J	0.0243		0.0196	J	0.0430		0.0070	J	0.0595		0.0030	J	0.0172	J	0.0183	UJ	0.0338		0.0460		--		--	
091020083	SB-521	8 - 10	09/10/2020	1.750		1.940		0.662		0.832		0.710		1.250		1.060		1.310	J	0.639	UJ	0.639	UJ	1.340		0.185	J	1.930		0.825		0.475	J	4.230		2.430		2.270		--		--	
091020084	SB-521	12 - 14	09/10/2020	2.940		4.820		1.500		0.668		2.030		1.160		1.050		0.839	J	0.470	UJ	0.470	UJ	1.150		0.105	J	2.730		1.880		0.367	J	**9.210**		6.550		3.040		--		--	
082620018	SB-526	13 - 15	08/26/2020	0.0110	J	0.0189	J	0.0027	U	0.0026	U	0.0026	U	0.0034	J	0.0024	U	0.0029	U	0.0037	U	0.0027	U	0.0040	U	0.0029	U	0.0033	J	0.0025	U	0.0044	U	0.0184	J	0.0065	J	0.0031	UR	--		--	
082620005	SB-529	4 - 6	08/26/2020	**721.000**		1,250		33.800	U	64.600	J	115.000	J	**110.000**	J	**47.800**	J	**62.700**	J	45.700	U	33.300	U	72.800	J	36.000	U	189.000	J	159.000	J	54.300	U	**4,630**		466.000		204.000	J	--		--	
082620006	SB-529	8 - 10	08/26/2020	0.0662		0.0968		0.0060	U	0.0081	J	0.0101	J	0.0156	J	0.0057	J	0.0096	J	0.0082	U	0.0059	U	0.0101	J	0.0109	J	0.0271	J	0.0181	J	0.0175	J	0.442		0.0502		0.0279	J	--		--	
082620007	SB-530	5 - 7	08/26/2020	41.800	J	82.500		9.800	U	9.530	U	9.380	U	9.770	U	8.580	U	10.500	U	13.300	U	9.660	U	14.200	U	10.500	U	8.940	U	9.060	U	15.700	U	**966.000**		8.650	U	11.100	UR	--		--	
082620008	SB-530	10 - 12	08/26/2020	0.0646	J	0.103	J	0.0149	U	0.0145	U	0.0143	U	0.0244	J	0.0131	U	0.0185	J	0.0202	U	0.0147	U	0.0217	U	0.0159	U	0.0345	J	0.0138	U	0.0240	U	1.220		0.0371	J	0.0321	J	--		--	
082620009	SB-531	4 - 6	08/26/2020	12.000		2.360	J	2.480	J	12.100		11.900		**35.500**		**15.500**		**36.000**	J	14.500		15.000	J	41.700		**4.590**	J	94.200		16.700		13.600		**8.710**		74.300		91.500	J	--		--	
082620010	SB-531	6 - 8	08/26/2020	0.0223	J	0.0117	U	0.0330	J	0.0227	J	0.142		0.485		0.504		0.817	J	0.429		0.355	J	0.699		0.107		1.910		0.0634	J	0.377		0.0230	J	0.811		1.310	J	--		--	
082620011	SB-532	2 - 4	08/26/2020	37.900	J	5.380	J	1.890	J	3.060	J	1.720	J	8.420	J	1.320	J	9.130	J	3.580	J	3.550	J	10.400	J	1.140	J	23.300	J	6.160	J	3.500	J	4.220	J	32.700	J	20.500	J	--		--	
082620011/082620012 (N)	SB-532	2 - 4	08/26/2020	37.900	J	5.380	J	1.890	J	3.060	J	1.720	J	8.420	J	1.320	J	9.130	J	3.580	J	3.550	J	10.400	J	1.140	J	23.300	J	6.160	J	3.500	J	4.220	J	32.700	J	20.500	J	--		--	
082620012	SB-532	2 - 4	08/26/2020	0.747		0.149		0.0432	J	0.177		0.167		0.235		0.207		0.469	J	0.450		0.191	J	0.333		0.0782	J	0.553		0.108		0.335		0.343		0.779		0.511	J	--		--	
082620013	SB-532	6 - 8	08/26/2020	0.0709		0.0076	J	0.129		0.0129	J	0.0033	J	0.0133	J	0.0023	U	0.0148	J	0.0060	J	0.0058	J	0.0177	J	0.0027	U	0.0397		0.0777		0.0056	J	0.0112	J	0.0854		0.0342	J	--		--	
082620014	SB-533	3 - 5	08/26/2020	0.0741	J	0.101	J	0.0246	U	0.290		0.208		0.957		1.060		1.430	J	0.774		0.668	J	1.030		0.206		1.840		0.0475	J	0.718		0.422		0.477		1.430	J	--		--	
082620015	SB-534	7 - 9	08/26/2020	0.0027	U	0.0027	U	0.0024	U	0.0024	U	0.0023	U	0.0024	U	0.0021	U	0.0026	U	0.0033	U	0.0024	U	0.0035	U	0.0026	U	0.0022	U	0.0022	U	0.0039	U	0.0036	J	0.0021	U	0.0028	UR	--		--	
082620015/082620016 (N)	SB-534	7 - 9	08/26/2020	0.0196		0.0353		0.0024	U	0.0024	U	0.0035	J	0.0049	J	0.0021	U	0.0026	U	0.0033	U	0.0024	U	0.0035	U	0.0026	U	0.0079	J	0.0056	J	0.0039	U	0.107		0.0168	J	0.0083	J	--		--	
082620016	SB-534	7 - 9	08/26/2020	0.0196		0.0353		0.0025	U	0.0024	U	0.0035	J	0.0049	J	0.0022	U	0.0027	U	0.0034	U	0.0025	U	0.0036	U	0.0027	U	0.0079	J	0.0056	J	0.0040	U	0.107		0.0168	J	0.0083	J	--		--	
082620017	SB-535	5 - 7	08/26/2020	0.0869		0.161		0.0147	J	0.0239	J	0.0383	J	0.0992		0.143		0.172	J	0.0947		0.0655	J	0.0939		0.0299	J	0.142		0.0207	J	0.0845		1.480		0.0827		0.106	J	--		--	
090920034	SB-536	2 - 4	09/09/2020	3.060		4.330		0.0561	J	0.0896	J	0.222	J	0.360	J	0.255	J	0.368	J	0.213	J	0.104	J	0.515		0.0560	U	0.636		0.168	J	0.126	J	3.490		2.270		0.542		--		--	
090920035	SB-536	9 - 11	09/09/2020	0.0046	U	0.0046	U	0.0207	J	0.0043	J	0.0090	J	0.0198	J	0.0193	J	0.0250	J	0.0286	J	0.0110	J	0.0218	J	0.0044	U	0.0411		0.0040	J	0.0159	J	0.0199	J	0.0301	J	0.0332		--		--	
090920036	SB-537	2 - 4	09/09/2020	9.020		12.900		0.106	J	0.188	J	0.323	J	0.438	J	0.249	J	0.342	J	0.236	J	0.0921	J	0.689		0.0680	U	0.585		0.333	J	0.102	U	**10.100**		4.480		0.630		--		--	
090920037	SB-537	12 - 14	09/09/2020	0.0032	U	0.0032	U	0.0028	U	0.0027	U	0.0027	U	0.0036	J	0.0025	U	0.0030	U	0.0038	U	0.0028	U	0.0041	U	0.0030	U	0.0031	J	0.0026	U	0.0045	U	0.0021	U	0.0025	U	0.0044	J	--		--	
090920037/090920038 (N)	SB-537	12 - 14	09/09/2020	0.0031	U	0.0031	U	0.0028	U	0.0027	U	0.0027	U	0.0036	J	0.0024	U	0.0030	U	0.0038	U	0.0027	U	0.0040	U	0.0030	U	0.0031	J	0.0026	U	0.0045	U	0.0021	U	0.0024	U	0.0044	J	--		--	
090920038	SB-537	12 - 14	09/09/2020	0.0031	U	0.0031	U	0.0028	U	0.0027	U	0.0027	U	0.0028	U	0.0024	U	0.0030	U	0.0038	U	0.0027	U	0.0040	U	0.0030	U	0.0025	U	0.0026	U	0.0045	U	0.0021	U	0.0024	U	0.0031	U	--		--	
090920039	SB-538	2 - 4	09/09/2020	0.109		0.174		0.0465	J	0.257		0.154		0.580		0.617		0.711	J	0.386		0.256	J	0.558		0.0852	J	0.888		0.0573	J	0.341		0.237		0.347		0.908		--		--	
090920040	SB-538	13 - 15	09/09/2020	0.0073	J	0.0145	J	0.0028	U	0.0027	U	0.0027	U	0.0028	U	0.0025	U	0.0030	U	0.0038	U	0.0028	U	0.0041	U	0.0030	U	0.0026	U	0.0026	U	0.0045	U	0.0658		0.0025	U	0.0032	U	--		--	
091020078	SB-539	2 - 4	09/10/2020	0.384	UJ	0.477		0.384	UJ	0.384	UJ	0.243	J	0.814		0.898		1.140	J	0.519		0.578	J	0.939		0.143	J	1.690		0.103	J	0.515		0.576		1.150		1.550		--		--	
091020078/091020079 (N)	SB-539	2 - 4	09/10/2020	0.792		1.130		0.384	UJ	0.384	UJ	0.243	J	0.842		0.898		1.140	J	0.519		0.581	J	1.110		0.165	J	1.690		0.128	J	0.515		1.100		1.260		1.550		--		--	
091020079	SB-539	2 - 4	09/10/2020	0.792		1.130		0.415	UJ	0.415	UJ	0.190	J	0.842		0.872		1.090	J	0.500		0.581	J	1.110		0.165	J	1.630		0.128	J	0.454		1.100		1.260		1.550		--		--	
091020080	SB-539	12.5 - 14	09/10/2020	0.0298	U	0.0298	U	0.593	J	0.0257	U	0.385		0.0264	U	0.0232	U	0.0283	U	0.0358	U	0.0261	U	0.0385	U	0.0282	U	0.274		0.538		0.0425	U	0.0199	U	1.910		0.204	UJ	--		--	
090920041	SB-540	2 - 4	09/09/2020	0.0193		0.0257		0.0023	U	0.0398		0.0130	J	0.0506		0.0555		0.110	J	0.0603		0.0401	J	0.0764		0.0202		0.0597		0.0050	J	0.0508		0.0460		0.0299		0.0684		--		--	
090920042	SB-540	7 - 9	09/09/2020	0.0056	J	0.0081	J	0.0045	J	0.0089	J	0.0240		0.0772		0.102		0.118	J	0.0682		0.0578	J	0.0825		0.0135	J	0.140		0.0077	J	0.0532		0.0301		0.0782		0.114		--		--	
090920043	SB-541	2 - 4	09/09/2020	0.396	J	0.432	J	0.172	J	0.231	J	0.703		2.970		**4.760**		5.020	J	2.890		2.180	J	3.090		0.857		4.130		0.156	J	2.780		0.585		1.650		3.100		--		--	
090920044	SB-541	5 - 7	09/09/2020	0.0033	U	0.0033	U	0.0032	J	0.0028	U	0.0053	J	0.0268		0.0552		0.0516	J	0.0411		0.0253	J	0.0243		0.0097	J	0.0240		0.0027	U	0.0364		0.0118	J	0.0131	J	0.0201	J	--		--	
090920045	SB-542	2 - 4	09/09/2020	8.550		1.960		0.249	U	0.292	J	0.480	J	1.660	J	1.900	J	2.290	J	1.220	J	1.080	J	1.660	J	0.355	J	2.750		0.231	U	1.070	J	**51.500**		1.330	J	2.070		--		--	
090920046	SB-542	4 - 5	09/09/2020	5.390		2.400		0.257	U	0.466	J	0.631	J	3.010		**3.160**		3.950	J	1.990		1.760	J	3.030		0.544	J	5.970		0.238	U	1.850	J	**40.200**		1.660	J	4.450		--		--	
090920047	SB-543	2 - 4	09/09/2020	0.0055	J	0.0119	J	0.0024	U	0.0687		0.0220		0.0299		0.0500		0.0603	J	0.0656		0.0244	J	0.0351		0.0172	J	0.0419		0.0074	J	0.0511		0.0293		0.0217		0.0424		--		--	
090920048	SB-543	6.5 - 8.5	09/09/2020	0.0029	U	0.0029	U	0.0026	U	0.0025	U	0.0025	U	0.0026	U	0.0023	U	0.0028	U	0.0035	U	0.0026	U	0.0038	U	0.0028	U	0.0024	U	0.0024	U	0.0042	U	0.0053	J	0.0023	U	0.0029	U	--		--	
090920049	SB-544	2 - 4	09/09/2020	0.0184	J	0.0400		0.0117	J	0.317		0.115		0.252		0.350		0.532	J	0.418		0.209	J	0.317		0.122		0.306		0.0337		0.301		0.0671		0.0908		0.375		--		--	
090920050	SB-544	4 - 6	09/09/2020	0.0030	J	0.0048	J	0.0055	J	0.0065	J	0.0052	J	0.0063	J	0.0051	J	0.0071	J	0.0051	J	0.0035	J	0.0067	J	0.0027	U	0.0109	J	0.0056	J	0.0040	U	0.0098	J	0.0130	J	0.0103	J	--		--	

Table 2. Soil SVOCs Analytical Results Compared to Residential and Industrial SLs - North Parking Lot

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Street, Green Bay, WI 54307
BRRTS# 02-05-000254 | USEPA# WIN000509948

9-digit Code	Sample Location	Sample Depth (feet-BGS)	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	Phenol Phenol	Phenol Phenolics, Total Recoverable
			Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				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 Industrial Soil SLs:	**73**	**3,000**	**45,000**	**45,000**	**100,000**	**21**	**2.1**	**21**	**23,000**	**210**	**2,100**	**2.1**	**30,000**	**30,000**	**21**	**8.6**	**100,000**	**23,000**	**100,000**	**NS**
			WI Residential Soil SLs:	18	240	3,600	3,600	18,000	1.1	0.11	1.1	1,800	11	110	0.11	2,400	2,400	1.1	2	18,000	1,800	19,000	NS
091020070	SB-545	2 - 4	09/10/2020	0.0213 UJ	0.0213 UJ	0.0028 U	0.0213 UJ	0.0126 J	0.0300	0.0213 UJ	0.0434 J	0.0213 UJ	0.0213 UJ	0.0475	0.0060 J	0.0735	0.0186 J	0.0174 J	0.0399	0.0808 J	0.0706	--	--
091020070/091020071 (N)	SB-545	2 - 4	09/10/2020	0.0301	0.0207 UJ	0.0028 U	0.0380	0.0271	0.109	0.0644	0.170 J	0.0638	0.0531 J	0.151	0.0216	0.253	0.0449	0.0612	0.0645	0.218 J	0.252	--	--
091020071	SB-545	2 - 4	09/10/2020	0.0301	0.0207 UJ	0.0207 UJ	0.0380	0.0271	0.109	0.0644	0.170 J	0.0638	0.0531 J	0.151	0.0216	0.253	0.0449	0.0612	0.0645	0.218 J	0.252	--	--
091020072	SB-545	4 - 5.5	09/10/2020	0.0189 UJ	0.0189 UJ	0.0189 UJ	0.0189 UJ	0.0102 J	0.0320	0.0189 UJ	0.0402 J	0.0189 UJ	0.0189 UJ	0.0446	0.0057 J	0.0853	0.0160 J	0.0150 J	0.0189 UJ	0.0980 J	0.0786	--	--
090920051	SB-546	2 - 4	09/09/2020	0.0336 J	0.0390 J	0.0187 J	0.0676	0.0749	0.226	0.193	0.359 J	0.192	0.161 J	0.316	0.0545	0.475	0.0353 J	0.156	0.0857	0.206	0.400	--	--
090920052	SB-546	4 - 6	09/09/2020	0.0087 J	0.0144 J	0.0027 U	0.0537	0.0297	0.115	0.0678	0.198 J	0.0855	0.0852 J	0.189	0.0281	0.170	0.0123 J	0.0783	0.0407	0.0834	0.168	--	--
090920053	SB-547	2 - 4	09/09/2020	0.0135 J	0.0179 J	0.0380 J	0.0223 J	0.0610	0.180	0.246	0.301 J	0.316	0.0823 J	0.251	0.0510	0.430	0.0159 J	0.154	0.0242 J	0.168	0.407	--	--
090920054	SB-547	7.5 - 9.5	09/09/2020	0.0185 J	0.0169 J	0.0032 J	0.0070 J	0.0071 J	0.0076 J	0.0048 J	0.0075 J	0.0054 J	0.0029 U	0.0052 J	0.0031 U	0.0131 J	0.0110 J	0.0047 U	0.0678	0.0311	0.0102 J	--	--
090920055	SB-548	2 - 4	09/09/2020	0.0029 U	0.0029 U	0.0026 UJ	0.0025 U	0.0025 U	0.0049 J	0.0027 J	0.0046 J	0.0035 U	0.0026 J	0.0044 J	0.0028 U	0.0088 J	0.0024 U	0.0041 U	0.0282	0.0063 J	0.0071 J	--	--
090920056	SB-548	8 - 10	09/09/2020	0.0099 J	0.0088 J	0.0040 J	0.0055 J	0.0071 J	0.0084 J	0.0058 J	0.0113 J	0.0321	0.0043 J	0.0086 J	0.0043 U	0.0164 J	0.0102 J	0.0083 J	0.545	0.0332	0.0128 J	--	--
091020066	SB-549	2 - 4	09/10/2020	0.0027 U	0.0027 U	0.0024 U	0.0184 UJ	0.0023 U	0.0184 UJ	0.0184 UJ	0.0184 UJ	0.0184 UJ	0.0184 UJ	0.0184 UJ	0.0025 U	0.0184 UJ	0.0022 U	0.0056 J	0.0184 UJ	0.0027 J	0.0184 UJ	--	--
091020067	SB-549	8 - 10	09/10/2020	0.0038 U	0.0262 UJ	0.0034 U	0.0033 U	0.0032 U	0.0262 UJ	0.0030 U	0.0036 U	0.0262 UJ	0.0033 U	0.0049 U	0.0036 U	0.0262 UJ	0.0065 J	0.0055 U	0.0262 UJ	0.0164 J	0.0262 UJ	--	--
091020064	SB-550	2 - 4	09/10/2020	0.369 UJ	0.369 UJ	0.457	0.808	1.290	2.730	**3.030**	3.750 J	1.950	1.690 J	3.210	0.564	7.140	0.745	1.680	0.485	6.590 J	5.690	--	--
091020065	SB-550	11 - 13	09/10/2020	0.0212 UJ	0.0212 UJ	0.0028 U	0.0027 U	0.0026 U	0.0027 U	0.0024 U	0.0029 U	0.0037 U	0.0027 U	0.0040 U	0.0029 U	0.0025 U	0.0025 U	0.0044 U	0.0415	0.0024 U	0.0031 U	--	--
091020062	SB-551	2 - 4	09/10/2020	0.0027 U	0.0027 U	0.0024 U	0.0023 U	0.0023 U	0.0185 UJ	0.0185 UJ	0.0185 UJ	0.0033 U	0.0024 U	0.0035 U	0.0026 U	0.0185 UJ	0.0022 U	0.0039 U	0.0185 UJ	0.0021 U	0.0185 UJ	--	--
091020063	SB-551	8 - 10	09/10/2020	0.0036 U	0.0036 U	0.0032 U	0.0031 U	0.0031 U	0.0032 U	0.0028 U	0.0034 U	0.0043 U	0.0032 U	0.0047 U	0.0034 U	0.0029 U	0.0030 U	0.0052 U	0.0247 UJ	0.0042 J	0.0036 U	--	--
091020058	SB-552	6 - 8	09/10/2020	27.500	28.900	22.100 UJ	2.790 U	4.800 J	22.100 UJ	22.100 UJ	22.100 UJ	3.880 U	22.100 UJ	22.100 UJ	3.060 U	22.100 UJ	4.170 J	4.610 U	**343.000**	15.800 J	22.100 UJ	--	--
091020058/091020059 (N)	SB-552	6 - 8	09/10/2020	27.500	28.900	19.300 UJ	2.790 U	5.500 J	19.300 UJ	19.300 UJ	19.300 UJ	3.880 U	19.300 UJ	19.300 UJ	2.670 U	22.500	4.310 J	4.020 U	**343.000**	16.900 J	19.500	--	--
091020059	SB-552	6 - 8	09/10/2020	24.500	19.300 UJ	19.300 UJ	19.300 UJ	5.500 J	19.300 UJ	19.300 UJ	19.300 UJ	19.300 UJ	19.300 UJ	19.300 UJ	2.670 U	22.500	4.310 J	4.020 U	**232.000**	16.900 J	19.500	--	--
091020060	SB-552	8 - 10	09/10/2020	0.0597	0.0522	0.0505	0.0353 UJ	0.0992	0.192	0.196	0.238 J	0.109	0.0981 J	0.219	0.0345 J	0.450	0.0688	0.0874	1.300	0.445 J	0.352	--	--
091020061	SB-552	2 - 4	09/10/2020	0.0186 UJ	0.0186 UJ	0.0024 U	0.0470	0.0218	0.0498	0.0703	0.0712 J	0.0468	0.0336 J	0.0631	0.0154 J	0.0590	0.0072 J	0.0390	0.0226	0.0190 J	0.0688	--	--
091020075	SB-553	2 - 4	09/10/2020	0.019 UJ	0.019 UJ	0.019 UJ	0.0265	0.0144 J	0.0355	0.0196	0.0419 J	0.0205	0.019 UJ	0.0531	0.0066 J	0.0635	0.0187 J	0.0159 J	0.0216	0.0905 J	0.0750	--	--
091020076	SB-553	7.5 - 9	09/10/2020	**369.000**	456.000	379.000	56.800 UJ	157.000	**83.500**	**71.300**	56.800 UJ	56.800 UJ	56.800 UJ	92.000	7.860 U	172.000	182.000	16.200 J	**1,260**	543.000 J	225.000	--	--
091020076/091020077 (N)	SB-553	7.5 - 9	09/10/2020	**369.000**	456.000	379.000	52.300 UJ	157.000	**83.500**	**71.300**	**57.800** J	52.300 UJ	52.300 UJ	92.000	7.240 U	172.000	182.000	16.200 J	**1,260**	543.000 J	225.000	--	--
091020077	SB-553	7.5 - 9	09/10/2020	**342.000**	422.000	335.000	52.300 UJ	146.000	**78.800**	**67.200**	**57.800** J	52.300 UJ	52.300 UJ	86.800	7.240 U	161.000	159.000	14.300 J	**1,160**	485.000 J	207.000	--	--
091020068	SB-554	2 - 4	09/10/2020	0.0194 UJ	0.0194 UJ	0.0025 U	0.0024 U	0.0024 U	0.0194 UJ	0.0022 U	0.0194 UJ	0.0034 U	0.0025 U	0.0037 U	0.0027 U	0.0194 UJ	0.0023 U	0.0040 U	0.0194 UJ	0.0040 J	0.0194 UJ	--	--
091020069	SB-554	7.5 - 9.5	09/10/2020	0.0050 U	0.0050 U	0.0044 U	0.0043 U	0.0043 U	0.0343 UJ	0.0039 U	0.0343 UJ	0.0060 U	0.0044 U	0.0065 U	0.0047 U	0.0343 UJ	0.0048 J	0.0071 U	0.0343 UJ	0.0097 J	0.0343 UJ	--	--
091020073	SB-555	2 - 4	09/10/2020	0.0251 U	0.0252 U	0.0223 U	0.0217 U	0.0214 U	0.0222 U	0.0196 U	0.0239 U	0.0302 U	0.0220 U	0.0325 U	0.0238 U	0.0204 U	0.0206 U	0.0359 U	0.0168 U	0.0197 U	0.0253 U	--	--
091020074	SB-555	4 - 5.5	09/10/2020	0.0028 U	0.0028 U	0.0025 U	0.0193 UJ	0.0025 J	0.0193 UJ	0.0193 UJ	0.0193 UJ	0.0193 UJ	0.0193 UJ	0.0193 UJ	0.0027 U	0.0193 UJ	0.0023 U	0.0054 J	0.0193 UJ	0.0043 J	0.0193 UJ	--	--
111120139	SB-574	0 - 2	11/11/2020	0.224	0.319	0.0106 J	0.0583	0.0438	0.145	0.147	0.187 J	0.119	0.0941 J	0.168	0.0336 J	0.219	0.0145 J	0.0904	0.290	0.257	0.237	--	--
111120140	SB-574	13 - 15	11/11/2020	0.0032 U	0.0032 U	0.0029 U	0.0028 U	0.0028 U	0.0034 J	0.0025 U	0.0031 U	0.0039 U	0.0028 U	0.0042 U	0.0031 U	0.0030 J	0.0027 U	0.0046 U	0.0069 J	0.0041 J	0.0033 U	--	--
111220144	SB-575	0 - 2	11/12/2020	0.0762 UJ	0.134	0.0140 J	0.173	0.101	0.372	0.560	0.636 J	0.530	0.260 J	0.382	0.124	0.473	0.0180 J	0.454	0.434	0.188	0.422 J	--	--
111220145	SB-575	8 - 10	11/12/2020	56.000 UJ	81.600	116.000	17.000 J	121.000	**77.500**	**83.400**	**86.400** J	50.700 J	37.200 J	72.300	**9.030** J	219.000	60.400	**45.200** J	**575.000**	240.000	158.000	--	--
111220146	SB-575	12 - 14	11/12/2020	10.400 UJ	16.300	18.700	1.320 U	10.800	7.000 J	**5.890** J	5.970 J	3.540 J	2.800 J	4.340 J	1.440 U	18.200	8.550 J	3.020 J	**132.000**	30.400	12.700	--	--
111120134	SB-576	0 - 2	11/11/2020	0.0071 J	0.0106 J	0.0033 J	0.0127 J	0.0292	0.0726	0.0506	0.127 J	0.0767 J	0.0472 J	0.103 J	0.0220	0.114 J	0.0038 J	0.0586 J	0.0383 J	0.118 J	0.0835 J	--	--
111120134/111120135 (N)	SB-576	0 - 2	11/11/2020	0.0077 J	0.0119 J	0.0033 J	0.0294	0.0292	0.0726	0.0506	0.127 J	0.0767 J	0.0472 J	0.103 J	0.0220	0.114 J	0.0038 J	0.0586 J	0.0383 J	0.118 J	0.0835 J	--	--
111120135	SB-576	0 - 2	11/11/2020	0.0077 J	0.0119 J	0.0026 U	0.0294	0.0139 J	0.0399	0.0375	0.0640 J	0.0410 J	0.0218 J	0.0505 J	0.0114 J	0.0594 J	0.0036 J	0.0324 J	0.0274 J	0.0452 J	0.0546 J	--	--
111120136	SB-576	7 - 9	11/11/2020	**101.000**	142.000	94.300	12.900 J	50.900	**30.300** J	**20.000** J	18.300 J	9.270 J	7.750 J	29.100 J	6.580 U	61.500	44.200 J	9.910 U	**355.000**	164.000	66.200	--	--
111120137	SB-576	10 - 12	11/11/2020	0.0979	0.107	0.0542	0.0265 J	0.0513	0.0399 J	0.0269 J	0.0251 J	0.0130 J	0.0104 J	0.0346 J	0.0063 U	0.0810	0.0451 J	0.0106 J	0.588	0.172	0.0933	--	--
111120138	SB-576	13 - 15	11/11/2020	0.0048 J	0.0057 J	0.0028 U	0.0027 U	0.0027 U	0.0033 J	0.0024 U	0.0030 U	0.0038 U	0.0028 U	0.0041 U	0.0030 U	0.0029 J	0.0026 U	0.0045 U	0.281	0.0055 J	0.0032 U	--	--
111120131	SB-577	2 - 4	11/11/2020	0.225 J	0.196 J	0.120 J	0.559	0.697	1.470	1.340	1.510 J	0.800	0.719 J	1.590	0.227 J	3.040	0.287 J	0.669	0.731	1.740	2.940	--	--
111120132	SB-577	4 - 6	11/11/2020	**82.700**	96.300	5.730 J	14.900 J	24.200 J	21.000 J	**11.300** J	11.800 J	6.230 J	5.200 J	20.500 J	4.380 U	39.500	21.700 J	6.600 U	**489.000**	89.200	44.100	--	--
111120133	SB-577	9 - 11	11/11/2020	0.803	0.715	0.0571 U	0.144 J	0.170 J	0.221 J	0.0898 J	0.131 J	0.0773 U	0.0563 U	0.220 J	0.0609 U	0.357 J	0.204 J	0.0917 U	3.910	0.800	0.423 J	--	--
111120141	SB-578	2 - 4	11/11/2020	0.0027 U	0.0028 U	0.0024 UJ	0.0024 U	0.0023 U	0.0040 J	0.0021 U	0.0026 U	0.0033 U	0.0024 U	0.0035 U	0.0026 U	0.0055 J	0.0023 U	0.0039 U	0.0018 U	0.0048 J	0.0043 J	--	--
111120142	SB-578	9 - 11	11/11/2020	0.994	0.591	0.216 J	0.391 J	1.020	0.820	0.590	0.795 J	0.432	0.355 J	0.862	0.115 J	1.620	0.484	0.368 J	3.530	1.980	1.650	--	--
111220147	SB-579	2 - 4	11/12/2020	0.0176 UJ	0.0176 UJ	0.0051 J	0.0023 J	0.0108 J	0.0105 J	0.0101 J	0.0117 J	0.0084 J	0.0062 J	0.0124 J	0.0024 U	0.0220	0.0030 J	0.0068 J	0.0222	0.0156 J	0.0172 J	--	--
111220148	SB-579	4 - 6	11/12/2020	2.620	2.590	0.236 U	0.750 J	0.749 J	2.650	**2.560**	3.250 J	1.870	1.460 J	2.970	0.452 J	4.650	0.388 J	1.690 J	**14.500**	2.610	4.630	--	--
111220149	SB-579	8 - 10	11/12/2020	2.280 UJ	2.280 UJ	0.296 U	1.640 J	2.200 J	10.400	**10.600**	15.400 J	8.540	7.830 J	11.000	**2.540**	16.400	0.721 J	8.000	3.750	4.160	13.200	--	--
111120129	SB-580	2 - 4	11/11/2020	0.801	1.020	0.269 J	0.603	0.713	1.360	1.190	1.600 J	0.799	0.612 J	1.610	0.216 J	2.690	0.336 J	0.656	1.040	2.160	2.520	--	--
111120130	SB-580	9 - 11	11/11/2020	**101.000**	125.000	107.000	10.500 J	57.000	**29.100** J	**19.200** J	14.900 J	8.190 J	7.720 J	22.300 J	6.010 U	53.900	47.700	9.050 U	**404.000**	144.000	63.200	--	--

Table 2. Soil SVOCs Analytical Results Compared to Residential and Industrial SLs - North Parking Lot

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Street, Green Bay, WI 54307
BRRTS# 02-05-000254 | USEPA# WIN000509948

9-digit Code	Sample Location	Sample Depth (feet-BGS)	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	Phenol Phenol	Phenol Phenolics, Total Recoverable
			Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				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 Industrial Soil SLs:	**73**	**3,000**	**45,000**	**45,000**	**100,000**	**21**	**2.1**	**21**	**23,000**	**210**	**2,100**	**2.1**	**30,000**	**30,000**	**21**	**8.6**	**100,000**	**23,000**	**100,000**	**NS**
			WI Residential Soil SLs:	18	240	3,600	3,600	18,000	1.1	0.11	1.1	1,800	11	110	0.11	2,400	2,400	1.1	2	18,000	1,800	19,000	NS
111120127	SB-581	2 - 4	11/11/2020	0.0094 J	0.0121 J	0.0024 U	0.0085 J	0.0057 J	0.0231	0.0269	0.0313 J	0.0198	0.0159 J	0.0265	0.0050 J	0.0383	0.0022 U	0.0157 J	0.0267	0.0125 J	0.0307	--	--
111120128	SB-581	8 - 10	11/11/2020	1.390 J	1.460 J	0.408 J	2.230	2.380	8.360	**7.160**	11.500 J	6.770	5.370 J	9.550	1.890	15.400	1.540	6.170	6.800	5.320	16.000	--	--
111120123	SB-582	2 - 4	11/11/2020	0.0027 U	0.0027 U	0.0046 J	0.0031 J	0.0219	0.0488	0.0499	0.0696 J	0.0445	0.0246 J	0.0607	0.0097 J	0.149	0.0040 J	0.0307	0.0021 J	0.0787	0.105	--	--
111120124	SB-582	8 - 10	11/11/2020	1.990	0.301 J	0.265 J	0.805 J	1.070	2.660	**2.130**	3.340 J	1.840	1.510 J	3.270	0.511 J	4.960	1.360	1.560	3.840	4.020	5.950	--	--
111120125	SB-583	2 - 4	11/11/2020	0.0150 J	0.0244 J	0.0128 J	0.162	0.100	0.225	0.249	0.367 J	0.249	0.138 J	0.268	0.0576	0.372	0.0220 J	0.204	0.0470	0.164	0.347	--	--
111120126	SB-583	8 - 10	11/11/2020	48.100	39.900	1.780 U	1.760 J	2.950 J	3.770 J	1.560 U	2.280 J	2.410 U	1.750 U	2.810 J	1.900 U	6.370 J	4.380 J	2.860 U	**172.000**	15.600	6.500 J	--	--
111120120	SB-584	2 - 4	11/11/2020	0.0026 U	0.0026 U	0.0023 U	0.0023 J	0.0029 J	0.0064 J	0.0046 J	0.0063 J	0.0045 J	0.0030 J	0.0054 J	0.0025 U	0.0094 J	0.0021 U	0.0037 U	0.0026 J	0.0049 J	0.0081 J	--	--
111120121	SB-584	8 - 10	11/11/2020	2.300 J	4.530 J	1.190 U	1.150 U	1.140 U	1.180 U	1.040 U	1.270 U	1.610 U	1.170 U	1.730 U	1.270 U	1.080 U	1.100 U	1.910 U	**76.400**	1.050 U	1.350 U	--	--
111120122	SB-584	10 - 12	11/11/2020	0.0116 J	0.0041 J	0.0026 U	0.0026 U	0.0025 U	0.0026 U	0.0023 U	0.0028 U	0.0036 U	0.0026 U	0.0038 U	0.0028 U	0.0024 U	0.0024 U	0.0042 U	0.770	0.0023 U	0.0030 U	--	--
111120108	SB-585	2 - 4	11/11/2020	0.0259 J	0.0327 J	0.0090 J	0.190	0.0889	0.264	0.233	0.418 J	0.245	0.174 J	0.349	0.0802	0.412	0.0235 J	0.204	0.0518	0.164	0.443	--	--
111120109	SB-585	6 - 8	11/11/2020	0.0131 J	0.0123 J	0.0045 U	0.0044 U	0.0124 J	0.0074 J	0.0044 J	0.0066 J	0.0205 J	0.0044 U	0.0065 U	0.0048 U	0.0093 J	0.0067 J	0.0072 U	0.161	0.0169 J	0.0138 J	--	--
111120110	SB-586	2 - 4	11/11/2020	21.400	1.880 J	7.050 J	15.400	27.500	**48.200**	**24.700**	**37.400** J	18.200	18.000 J	47.400	**5.240** J	119.000	27.600	16.800	**16.400**	95.600	123.000	--	--
111120111	SB-586	4 - 6	11/11/2020	0.128	0.0122 J	0.0321	0.0605	0.0960	0.131	0.0726	0.119 J	0.0552	0.0464 J	0.136	0.0175 J	0.338	0.114	0.0507	0.0979	0.287	0.338	--	--
111120112	SB-587	2 - 4	11/11/2020	0.0033 J	0.0032 J	0.0025 U	0.0112 J	0.0156 J	0.0465 J	0.0479 J	0.0676 J	0.0438 J	0.0316 J	0.0550 J	0.0102 J	0.105 J	0.0032 J	0.0347	0.0081 J	0.0452 J	0.0880 J	--	--
111120112/111120113 (N)	SB-587	2 - 4	11/11/2020	0.0563 J	0.0862 J	0.0215 J	0.164	0.297	0.863 J	0.966 J	1.180 J	0.665 J	0.429 J	0.975 J	0.173	1.830 J	0.103 J	0.573	0.321	1.060 J	1.780 J	--	--
111120113	SB-587	2 - 4	11/11/2020	0.0563 J	0.0862 J	0.0215 J	0.164	0.297	0.863 J	0.966 J	1.180 J	0.665 J	0.429 J	0.975 J	0.173	1.830 J	0.103 J	0.573	0.321	1.060 J	1.780 J	--	--
111120114	SB-587	4 - 6	11/11/2020	0.0389 J	0.0606 J	0.0711 J	0.0531 J	0.190	0.299	0.306	0.395 J	0.190	0.173 J	0.387	0.0589 J	0.768	0.0801	0.164	0.0486 J	0.725	0.577	--	--
111120115	SB-588	2 - 4	11/11/2020	0.0113 J	0.0177 J	0.0067 J	0.130	0.0769	0.172	0.165	0.349 J	0.203	0.134 J	0.226	0.0589	0.285	0.0146 J	0.176	0.0345 J	0.0942	0.279	--	--
111120116	SB-588	6 - 8	11/11/2020	0.248	0.0159 J	0.352	0.122	0.552	0.394	0.384	0.433 J	0.204	0.178 J	0.379	0.0631 J	1.120	0.280	0.201	0.242	1.150	0.753	--	--
111120117	SB-589	2 - 4	11/11/2020	0.0041 J	0.0059 J	0.0025 U	0.0223	0.0152 J	0.0688	0.0596	0.103 J	0.0617	0.0406 J	0.0770	0.0165 J	0.124	0.0038 J	0.0523	0.0122 J	0.0395	0.109	--	--
111120118	SB-589	10 - 12	11/11/2020	1.030	1.130	0.500	0.147 J	0.460	0.240 J	0.152 J	0.131 J	0.0709 J	0.0617 J	0.194 J	0.0544 U	0.428	0.371 J	0.0819 U	2.210	1.160	0.454	--	--
111120119	SB-589	12 - 14	11/11/2020	1.090	1.340	0.523	0.152 J	0.494	0.247 J	0.155 J	0.118 J	0.0763 U	0.0583 J	0.184 J	0.0601 U	0.448	0.389 J	0.0905 U	2.560	1.220	0.479	--	--
112320179	SB-590	2 - 4	11/23/2020	0.0026 U	0.0030 J	0.0023 U	0.0023 U	0.0025 J	0.0097 J	0.0091 J	0.0118 J	0.0076 J	0.0063 J	0.0117 J	0.0025 U	0.0181	0.0022 U	0.0056 J	0.0034 J	0.0097 J	0.0154 J	--	--
112320180	SB-590	12.5 - 14.5	11/23/2020	0.0108 J	0.0156 J	0.0081 J	0.0029 U	0.0035 J	0.0041 J	0.0026 U	0.0032 U	0.0041 U	0.0030 U	0.0044 U	0.0032 U	0.0081 J	0.0056 J	0.0049 U	0.0094 J	0.0144 J	0.0061 J	--	--
112320176	SB-591	2 - 4	11/23/2020	0.0026 U	0.0026 U	0.0023 U	0.0023 U	0.0022 U	0.0023 U	0.0020 U	0.0025 U	0.0031 U	0.0023 U	0.0034 U	0.0025 U	0.0021 U	0.0021 U	0.0037 U	0.0017 U	0.0021 U	0.0026 U	--	--
112320176/112320177 (N)	SB-591	2 - 4	11/23/2020	0.0026 U	0.0026 U	0.0023 U	0.0023 U	0.0022 U	0.0023 U	0.0020 U	0.0025 U	0.0031 U	0.0023 U	0.0034 U	0.0025 U	0.0021 U	0.0021 U	0.0037 U	0.0017 U	0.0021 U	0.0026 U	--	--
112320177	SB-591	2 - 4	11/23/2020	0.0027 U	0.0027 U	0.0024 U	0.0023 U	0.0023 U	0.0024 U	0.0021 U	0.0025 U	0.0032 U	0.0023 U	0.0035 U	0.0025 U	0.0022 U	0.0022 U	0.0038 U	0.0018 U	0.0021 U	0.0027 U	--	--
112320178	SB-591	13 - 15	11/23/2020	0.0279	0.0324	0.0226	0.0198	0.0535	0.116	0.124	0.149 J	0.0920	0.0568 J	0.130	0.0182 J	0.278	0.0375	0.0768	0.0482	0.228	0.235	--	--
112320174	SB-592	2 - 4	11/23/2020	0.0026 U	0.0026 U	0.0023 U	0.0022 U	0.0022 U	0.0023 U	0.0020 U	0.0025 U	0.0031 U	0.0023 U	0.0034 U	0.0025 U	0.0021 U	0.0021 U	0.0037 U	0.0017 U	0.0020 U	0.0026 U	--	--
112320175	SB-592	10 - 12	11/23/2020	0.0216 J	0.0300 J	0.0411 J	0.0946	0.188	0.745	0.854	1.000 J	0.587	0.432 J	0.792	0.134	1.410	0.0856 J	0.522	0.205	0.689	1.170	--	--
111220150	SB-593	0 - 2	11/12/2020	0.0185 UJ	0.0186 J	0.0046 J	0.0257	0.0189	0.0621	0.0983	0.116 J	0.0919	0.0474 J	0.0779	0.0167 J	0.110	0.0037 J	0.0759	0.0557	0.0383	0.0881	--	--
111220151	SB-593	10 - 12	11/12/2020	0.309	0.0040 U	0.193	0.0035 U	0.0034 U	0.0036 U	0.0031 U	0.0038 U	0.0048 U	0.0035 U	0.0052 U	0.0038 U	0.0033 U	0.0120 J	0.0058 U	0.0181 J	0.0082 J	0.0041 U	--	--
111220152	SB-594	0 - 2	11/12/2020	0.105 UJ	0.105 UJ	0.0136 U	0.0739 J	0.115	0.502 J	0.429 J	0.613 J	0.327 J	0.230 J	0.533 J	0.0975 J	0.981 J	0.0176 J	0.285 J	0.109	0.304 J	0.740 J	--	--
111220152/111220153 (N)	SB-594	0 - 2	11/12/2020	0.105 UJ	0.105 UJ	0.0136 U	0.149 J	0.343 J	1.340 J	1.810 J	2.530 J	1.770 J	1.150 J	2.040 J	0.380 J	3.930 J	0.0667 J	1.310 J	0.241 J	1.260 J	2.870 J	--	--
111220153	SB-594	0 - 2	11/12/2020	0.391 UJ	0.391 UJ	0.0507 U	0.149 J	0.343 J	1.340 J	1.810 J	2.530 J	1.770 J	1.150 J	2.040 J	0.380 J	3.930 J	0.0667 J	1.310 J	0.241 J	1.260 J	2.870 J	--	--
111220154	SB-594	8 - 10	11/12/2020	**219.000**	99.400	61.400	61.400	133.000	**132.000**	**108.000**	**103.000** J	58.200	43.200 J	127.000	**14.200** J	278.000	143.000	**46.400** J	**326.000**	413.000	272.000	--	--
111220155	SB-594	13 - 15	11/12/2020	4.680 UJ	5.330	9.430	0.597 J	8.060	5.800	**5.190**	5.550 J	3.270 J	2.560 J	5.350	0.648 U	17.500	4.830	2.830 J	**41.500**	21.600	12.800	--	--
111220156	SB-595	0 - 2	11/12/2020	0.0200	0.0283	0.0024 U	0.0079 J	0.0070 J	0.0303	0.0337	0.0391 J	0.0263	0.0193 J	0.0354	0.0062 J	0.0592	0.0026 J	0.0217	0.0352	0.0358	0.0490	--	--
111220157	SB-595	8 - 10	11/12/2020	1,130 UJ	1,130 UJ	1,240	142.000 U	1,430	**680.000** J	**495.000** J	**487.000** J	286.000 J	**296.000** J	546.000 J	156.000 U	1,930	681.000 J	**240.000** J	**7.400**	2,730	1,340	--	--
111220158	SB-595	11 - 13	11/12/2020	4.940 UJ	8.850	9.240	0.984 J	9.130	4.160 J	**3.310** J	3.240 J	1.810 J	1.820 J	3.220 J	0.683 U	13.000	5.070	1.540 J	**72.600**	19.300	8.890	--	--
111220164	SB-596	2 - 4	11/12/2020	0.595	0.375 UJ	0.136 J	1.520	1.090	2.150	1.980	2.940 J	1.960	1.390 J	2.390	0.574	3.440	0.285 J	1.650	1.230	2.670	3.470	--	--
111220165	SB-596	7.5 - 9.5	11/12/2020	0.752	0.404 UJ	1.210	0.597	1.330	2.600	1.600	2.580 J	1.310	1.080 J	2.650	0.375 J	6.960	1.230	1.200	0.575	3.090	5.970	--	--
111220159	SB-597	0 - 2	11/12/2020	0.0193 UJ	0.0237	0.0025 U	0.0031 J	0.0069 J	0.0258	0.0257	0.0334 J	0.0208	0.0157 J	0.0275	0.0049 J	0.0517	0.0031 J	0.0165 J	0.0516	0.0271	0.0419	--	--
111220160	SB-597	9 - 11	11/12/2020	0.0403	0.0635	0.0029 U	0.0028 U	0.0069 J	0.0134 J	0.0120 J	0.0137 J	0.0089 J	0.0053 J	0.0130 J	0.0031 U	0.0242	0.0056 J	0.0063 J	0.0616	0.0321	0.0195 J	--	--
111220160/111220161 (N)	SB-597	9 - 11	11/12/2020	0.0403	0.0635	0.0049 J	0.0028 U	0.0069 J	0.0134 J	0.0120 J	0.0137 J	0.0089 J	0.0053 J	0.0130 J	0.0031 U	0.0242	0.0056 J	0.0063 J	0.0616	0.0321	0.0195 J	--	--
111220161	SB-597	9 - 11	11/12/2020	0.0235 UJ	0.0235 UJ	0.0049 J	0.0030 U	0.0045 J	0.0113 J	0.0095 J	0.0107 J	0.0064 J	0.0044 J	0.0083 J	0.0033 U	0.0196 J	0.0036 J	0.0050 J	0.0529	0.0161 J	0.0150 J	--	--
111220162	SB-598	0 - 2	11/12/2020	0.0236	0.0336	0.0024 U	0.0030 J	0.0056 J	0.0149 J	0.0149 J	0.0178 J	0.0120 J	0.0087 J	0.0163 J	0.0026 U	0.0231	0.0022 U	0.0096 J	0.0295	0.0231	0.0194	--	--
111220163	SB-598	9.5 - 11.5	11/12/2020	2.780 UJ	2.780 UJ	0.967 J	0.350 U	0.647 J	0.631 J	0.628 J	0.604 J	0.487 U	0.355 U	0.523 U	0.384 U	0.974 J	0.333 U	0.578 U	**17.300**	1.100 J	0.730 J	--	--
111220166	SB-599	0 - 2	11/12/2020	0.0189 UJ	0.0028 U	0.0033 J	0.0038 J	0.0041 J	0.0129 J	0.0098 J	0.0133 J	0.0083 J	0.0057 J	0.0124 J	0.0026 U	0.0240	0.0038 J	0.0070 J	0.0189 UJ	0.0102 J	0.0213	--	--
111220167	SB-599	11 - 13	11/12/2020	0.0031 U	0.0031 U	0.0028 U	0.0027 U	0.0027 U	0.0042 J	0.0024 U	0.0030 U	0.0038 U	0.0028 U	0.0041 U	0.0030 U	0.0073 J	0.0026 U	0.0045 U	0.0215 UJ	0.0047 J	0.0057 J	--	--

Table 2. Soil SVOCs Analytical Results Compared to Residential and Industrial SLs - North Parking Lot

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Street, Green Bay, WI 54307
BRRTS# 02-05-000254 | USEPA# WIN000509948

				PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		Phenol		Phenol	
9-digit Code	Sample Location	Sample Depth (feet-BGS)	Sample Date	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		Phenol		Phenolics, Total Recoverable	
			Reporting Units:	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
				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 Industrial Soil SLs:				**73**		**3,000**		**45,000**		**45,000**		**100,000**		**21**		**2.1**		**21**		**23,000**		**210**		**2,100**		**2.1**		**30,000**		**30,000**		**21**		**8.6**		**100,000**		**23,000**		**100,000**		**NS**	
WI Residential Soil SLs:				18		240		3,600		3,600		18,000		1.1		0.11		1.1		1,800		11		110		0.11		2,400		2,400		1.1		2		18,000		1,800		19,000		NS	
111220168	SB-600	0 - 2	11/12/2020	0.0548	U	0.0548	U	0.0486	U	0.451		0.568		1.600		1.400		2.160	J	1.140		0.882	J	1.910		0.300	J	4.020		0.0797	J	0.933		0.375	UJ	1.210		2.990		--		--	
111220169	SB-600	2 - 4	11/12/2020	0.038	UJ	0.038	UJ	0.0056	J	0.0746		0.0880		0.248		0.254		0.373	J	0.226		0.132	J	0.315		0.0620		0.439		0.0123	J	0.175		0.038	UJ	0.124		0.398		--		--	
111220170	SB-601	0 - 2	11/12/2020	0.0027	U	0.0027	U	0.0024	U	0.0024	U	0.0023	U	0.0070	J	0.0083	J	0.0127	J	0.0093	J	0.0063	J	0.0085	J	0.0026	U	0.0132	J	0.0022	U	0.0073	J	0.0018	U	0.0028	J	0.0097	J	--		--	
111220171	SB-601	2 - 4	11/12/2020	0.0556	U	0.0556	U	0.0914	J	0.143	J	0.517		1.040	J	1.040	J	1.330	J	0.702		0.690	J	1.370	J	0.204	J	2.760	J	0.0884	J	0.595		0.380	UJ	1.380	J	2.090	J	--		--	
111220171/111220172 (N)	SB-601	2 - 4	11/12/2020	0.0556	U	0.0556	U	0.355	J	0.443	J	1.540		3.710	J	**2.620**	J	3.480	J	1.390		1.460	J	3.980	J	0.436	J	11.300	J	0.575	J	1.220		0.380	UJ	7.340	J	8.800	J	--		--	
111220172	SB-601	2 - 4	11/12/2020	0.112	U	0.112	U	0.355	J	0.443	J	1.540		3.710	J	**2.620**	J	3.480	J	1.390		1.460	J	3.980	J	0.436	J	11.300	J	0.575	J	1.220		0.767	UJ	7.340	J	8.800	J	--		--	
101915104	SG401	1 - 2	10/19/2015	0.0172	U	0.0097	J	0.0172	U	0.0172	U	0.0172	U	0.0116	J	0.0140	J	0.0116	J	0.0124	J	0.0124	J	0.0167	J	0.0172	U	0.0148	J	0.0172	U	0.0082	J	0.0172	U	0.0154	J	0.0187		--		--	
101915105	SG401	9 - 11	10/19/2015	11.200		17.500		5.210		1.890	J	5.600		2.780		**2.140**	J	1.270	J	0.905	J	1.400	J	2.630		2.240	U	5.630		4.920		2.240	U	**51.600**		15.400		6.480		--		--	
101915106	SG401	13 - 15	10/19/2015	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0195	U	0.0281		0.0195	U	0.0195	U	--		--	
072414036	SS-2	0.5 - 1.5	05/20/1985	--		--		ND	U	ND	U	ND	U	2.600		**5.100**		ND	U	3.400		4.700		ND	U	1.400		2.000		ND	U	4.800		ND	U	ND	U	2.100		--		--	
072414035	SS-2	0 - 0.5	05/20/1985	--		--		ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	--		--	
072414038	SS-3	0.5 - 1.5	05/20/1985	--		--		ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	--		--	
072414037	SS-3	0 - 0.5	05/20/1985	--		--		ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	--		--	
072414023	Topsoil 1	0 - 0.5	05/27/2003	0.027		0.053		0.012		0.028		0.036		0.092		0.110		0.130		0.060		0.098		0.100		0.021		0.180		0.017		0.057		0.050		0.140		0.170		--		--	
072414024	Topsoil 2	0 - 0.5	05/27/2003	0.011		0.016		0.012	U	0.020		0.012		0.042		0.055		0.063		0.021		0.057		0.051		0.008	U	0.075		0.0065	U	0.019		0.022		0.044		0.083		--		--	
072414032	TP-10	5.5	05/20/2003	0.0087	U	0.0093	U	0.014	U	0.022	U	0.014	U	0.016		0.0076		0.012		0.015	U	0.012		0.016		0.0092	U	0.035		0.0075	U	0.014	U	0.0093	U	0.021		0.033		--		--	

Total Number of Samples Analyzed:	246	246	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	262	15	8
Number of Detections:	152	161	113	144	198	216	195	199	173	181	199	125	219	177	175	210	217	209	10	6
Min:	0.003	0.003	0.0032	0.0023	0.0025	0.0033	0.0027	0.0035	0.0045	0.0026	0.0044	0.0049	0.0029	0.0026	0.005	0.0021	0.0025	0.0043	0.13	0.84
Max:	1,420	2,330	1,240	247	1,430	680	495	487	286	296	546	44	1,930	746	240	7,400	2,730	1,340	2.2	2
WI Industrial Soil SLs:	73	3000	45000	45000	100000	21	2.1	21	23000	210	2100	2.1	30000	30000	21	8.6	100000	23000	100000	NS
Number of Samples that Exceed WI Industrial Soil SL:	14	0	0	0	0	24	61	19	0	1	0	17	0	0	6	56	0	0	0	0
WI Residential Soil SLs:	18	240	3600	3600	18000	1.1	0.11	1.1	1800	11	110	0.11	2400	2400	1.1	2	18000	1800	19000	NS
Number of Samples that Exceed WI Residential Soil SL:	30	8	0	0	0	82	131	85	0	19	5	66	0	0	58	79	0	0	0	0

[O:CMD 8/6/20, C:SGW 8/7/20, QA: KLT 8/30/20,U:MGP 3/2/22]

Notes:
Analyte concentration exceeds the standard for:

Bold	**WI Industrial Soil SLs**
Underlined	WI Residential Soil SLs
Pink Highlighting	result exceeds one or more screening criteria
Yellow Highlighting	analyte exceedance in statistics for one or more samples

Lab comments, additional data qualifiers and definitions can be found in associated laboratory and validation reports.

-- = Analysis not performed
(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
BGS = Below ground surface
BRRTS = Bureau for Remediation and Redevelopment Tracking System
J = Estimated concentration
mg/kg = milligrams per kilogram
MGP = manufactured gas plant
ND = analyte not detected
NS = No Screening Level
PAH = Polycyclic Aromatic Hydrocarbon
RAF = Risk Assessment Framework
RI = remedial investigation
RSL = Regional Screening Level (EPA)
SL = Screening Level
U = Concentration was not detected above the reported limit
USEPA = United States Environmental Protection Agency

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, six revisions of the RSLs have been published by EPA through May 2020. As a result of these six revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.

Table 3. Soil VOCs and Inorganic Analytical Results Compared to Residential and Industrial SLs

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Street, Green Bay, WI 54307 BRRTS#
02-05-000254 | USEPA# WIN000509948

				PVOC		PVOC	PVOC	PVOC	PVOC	PVOC	PVOC	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Cyanide	Cyanide	Cyanide	Organic
9-digit Code	Sample Location	Sample Depth (feet-BGS)	Sample Date	1,2,4-Trimethylbenzene	Benzene	BTEX, Total	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	Arsenic, Total	Barium, Total	Cadmium, Total	Chromium, Total	Copper, Total	Lead, Total	Mercury, Total	Nickel, Total	Selenium, Total	Silver, Total	Thallium, Total	Zinc, Total	Cyanide, Amenable	Cyanide, Total	Cyanide, Weak Acid Dissociable	Carbon, Total Organic
Reporting Units:				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				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 Industrial Soil SLs:				**219**	**5.1**	**NS**	**25**	**818**	**434**	**388**	**260**	**8**	**100,000**	**100**	**100,000**	**47,000**	**800**	**350**	**22,000**	**5,800**	**5,800**	**12**	**100,000**	**1,200**	**1,200**	**1,200**	**NS**
WI Residential Soil SLs:				219	1.2	NS	5.8	818	434	388	260	8	15,000	7.1	100,000	3,100	400	23	1,500	390	390	0.78	23,000	78	78	78	NS
072414030	EB 101	8	04/22/2003	--	0.025 U	1.225	1.100	0.025 U	--	--	0.075	3.600	69.000	0.230	24.000	--	5.600	0.009	--	0.940	0.041	--	--	0.500	0.500	--	--
072414031	EB 102	6	05/30/2003	--	0.025 U	0.050 U	0.025 U	0.025 U	--	--	0.050 U	2.500	70.000	0.220	1.300	--	5.200	0.012	--	22.000	0.058 J	--	--	0.130 U	0.120 U	--	--
072414022	EB 3-1	12	05/16/2003	--	0.025 U	0.050 U	0.025 U	0.025 U	--	--	0.050 U	2.400	64.000	0.260	33.000	--	6.400	0.011	--	0.660	0.032	--	--	0.870	0.870	--	--
072414016	EW 3-1	9.5	05/16/2003	--	0.410	1.860	0.640	0.210	--	--	0.600	**9.100**	64.000	0.400	22.000	--	33.000	0.120	--	1.500	0.086	--	--	5.800	5.800	--	25,000
072414017	EW 3-2	6	05/16/2003	--	2.200	5.940	0.780	0.840	--	--	2.120	**8.200**	48.000	0.370	13.000	--	72.000	17.000	--	2.700	0.023	--	--	15.000	15.000	--	71,000
072414018	EW 3-3	5	05/16/2003	--	0.730	3.020	1.000	0.230	--	--	1.060	5.600	86.000	0.390	23.000	--	89.000	0.310	--	2.200	0.050	--	--	16.000	16.000	--	62,000
072414019	EW 3-4	10	05/16/2003	--	0.710	5.810	1.800	0.500	--	--	2.800	2.400	36.000	0.220	12.000	--	42.000	0.081	--	0.840	0.033	--	--	10.000	10.000	--	12,000
072414020	EW 3-5	6	05/20/2003	--	0.210	1.310	0.440	0.150	--	--	0.510	3.900	19.000	0.270	18.000	--	31.000	0.050	--	0.380	0.036	--	--	17.000	17.000	--	30,000
072414021	EW 3-6	3	05/20/2003	--	0.110	1.131	0.240	0.051	--	--	0.730	1.200	9.700	0.084 U	5.600	--	4.700	0.0037	--	0.420	0.024 U	--	--	0.490	0.490	--	2,000
072414025	EW 4-1	4.5	05/23/2003	--	0.320	3.650	1.200	0.480	--	--	1.650	--	--	--	--	--	--	--	--	--	--	--	--	380.000	380.000	18.000	--
072414026	EW 4-2	4.5	05/23/2003	--	0.280	1.020	0.360	0.070	--	--	0.310	8.000	48.000	0.300	12.000	--	**7,900**	0.250	--	1.300	0.026	--	--	17.000	17.000	5.100	--
072414027	EW 4-3	4.5	05/23/2003	--	0.670	5.860	0.970	0.920	--	--	3.300	**18.000**	250.000	0.480	29.000	--	**1,900**	0.630	--	2.400	0.038	--	--	**1,500**	**1,500**	47.000	--
072414028	EW 4-4	4	05/23/2003	--	0.025 U	0.146	0.025 U	0.025 U	--	--	0.071	--	--	--	--	--	--	--	--	--	--	--	--	680.000	690.000	14.000	--
101915201	HA-401	0 - 2	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.4	51.2	0.23	17.3	--	11.6	0.028	--	0.43	0.43 U	--	--	0.113 UJ	0.113 U	--	--
101915202	HA-402	0 - 2	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	1.4	22.9	0.078 J	6.5	--	28.2	0.044	--	0.50 U	0.50 U	--	--	0.00261 UJ	0.930	--	20,700
101915203	HA-403	0 - 2	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.4	58.9	0.15	21.5	--	16.1	0.025	--	0.34 J	0.52 U	--	--	0.187 J	0.187 J	--	--
101915204	HA-404	0 - 2	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.0	38.0	0.41	21.6	--	29.6	1.3	--	0.22 J	0.74	--	--	0.240 J	0.240 J	--	--
101915205	HA-405	0 - 1.5	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	3.1	65.5	0.51	31.6	--	47.3	0.84	--	0.34 J	0.75	--	--	0.851	1.10	--	32,400
101915206	HA-406	0 - 2	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.3	50.7	0.17	14.5	--	10.8	0.019	--	0.30 J	0.49 U	--	--	0.158 J	0.158 J	--	--
102015207	HA-407	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.2	46.4	0.17	20.6	--	21.6	0.013	--	0.38 J	0.53 U	--	--	0.0921 UJ	0.092 U	--	--
102015208	HA-408	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.4	38.5	0.16	15.9	--	31.5	0.039	--	0.28 J	0.43 U	--	--	1.26 J	5.86	--	--
102015209	HA-409	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	1.6	29.7	0.099	12.8	--	16.4	0.12	--	0.21 J	0.46 U	--	--	0.274 J	0.274 J	--	18,800
102015210	HA-410	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0457 J	--	--	0.180 U	2.0	33.4	0.54	12.4	--	70.4	0.11	--	0.24 J	0.44 U	--	--	10.6	11.5	--	--
102015211/102015212 (N)	HA-411	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.1	30.1	0.17	13.9	--	28.3	0.023 J	--	0.25 J	0.54 U	--	--	1.26 J	2.24 J	--	--
072414049	MW-406	1 - 3	11/13/1994	--	0.005 U	--	0.052	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414051	MW-408	3 - 5	11/13/1994	--	0.005 U	--	0.005 U	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414052	MW-409A	5 - 7	11/14/1994	--	0.005 U	--	0.520	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414055	MW-411B	27 - 29	11/15/1994	--	0.005 U	--	0.005 U	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414056	MW-412	4 - 6	11/12/1994	--	0.005 U	--	0.005 U	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414057	MW-413	1 - 3	11/22/1994	--	0.005 U	--	0.005 U	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414067	SB-401	3 - 5	11/12/1994	--	1.800	--	1.600	5.800	--	--	8.700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414068	SB-402	3 - 5	11/12/1994	--	0.005 U	--	0.005 U	0.005 U	--	--	0.200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414069	SB-403	3 - 5	11/12/1994	--	0.005 U	--	0.005 U	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414070	SB-404	1 - 3	11/12/1994	--	0.005 U	--	0.005 U	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414071	SB-405	3 - 5	11/12/1994	--	0.070	--	0.005 U	0.120	--	--	0.280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414072	SB-406	3 - 5	11/12/1994	--	0.110	--	0.220	0.190	--	--	0.440	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
072414083	SB-417	1 - 3	12/01/1994	--	0.005 U	--	0.005 U	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
101915101	SB-418	1 - 2	10/19/2015	0.0611 J	0.0375 J	--	0.340	0.167	--	--	0.236	3.9	81.7	0.28	23.2	--	41.5 J	0.14	--	1.1	0.15 J	--	--	0.223 J	0.223 J	--	--
101915102	SB-418	4 - 6	10/19/2015	0.612	0.412	--	3.670	0.470	--	--	1.300	6.3	59.5	0.21	15.2	--	28.8	0.23	--	1.0	0.47 U	--	--	0.00231 UJ	34.5	--	--
101915103	SB-418	9 - 10	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.7	60.9	0.25	25.0	--	27.7	0.026	--	1.1	0.70 U	--	--	0.940	3.54	--	--
072414084	SB-418-1994	3 - 5	12/01/1994	--	0.005 U	--	0.005 U	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
101915113/101915114 (N)	SB-418A	4 - 6	10/19/2015	181.000	**23.100** J	--	**133.000**	15.200 J	--	--	140.000	**13.6**	233 J	0.74	46.9	--	**1,070** J	0.60	--	2.8	0.16 J	--	--	0.00246 UJ	728 J	--	176,000
101915115	SB-418A	13 - 15	10/19/2015	0.0600 U	3.140	--	0.0600 U	0.0600 U	--	--	0.180 U	2.8	94.6	0.097	38.4	--	7.2 J	0.0099 J	--	1.6	0.54 U	--	--	0.330	1.61	--	--

Table 3. Soil VOCs and Inorganic Analytical Results Compared to Residential and Industrial SLs

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Street, Green Bay, WI 54307 BRRTS#
02-05-000254 | USEPA# WIN000509948

9-digit Code	Sample Location	Sample Depth (feet-BGS)	Sample Date	PVOC 1,2,4-Trimethylbenzene	PVOC Benzene	PVOC BTEX, Total	PVOC Ethylbenzene	PVOC Toluene	PVOC Xylene, o	PVOC Xylenes, m + p	PVOC Xylenes, Total	Metal Arsenic, Total	Metal Barium, Total	Metal Cadmium, Total	Metal Chromium, Total	Metal Copper, Total	Metal Lead, Total	Metal Mercury, Total	Metal Nickel, Total	Metal Selenium, Total	Metal Silver, Total	Metal Thallium, Total	Metal Zinc, Total	Cyanide Cyanide, Amenable	Cyanide Cyanide, Total	Cyanide Cyanide, Weak Acid Dissociable	Organic Carbon, Total Organic
Reporting Units:				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				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 Industrial Soil SLs:				**219**	**5.1**	**NS**	**25**	**818**	**434**	**388**	**260**	**8**	**100,000**	**100**	**100,000**	**47,000**	**800**	**350**	**22,000**	**5,800**	**5,800**	**12**	**100,000**	**1,200**	**1,200**	**1,200**	**NS**
WI Residential Soil SLs:				219	1.2	NS	5.8	818	434	388	260	8	15,000	7.1	100,000	3,100	400	23	1,500	390	390	0.78	23,000	78	78	78	NS
101915116	SB-418B	4 - 6	10/19/2015	0.0600 U	0.0600 U	--	0.0291 J	0.0404 J	--	--	0.180 U	1.3	23.0	0.044 J	11.5	--	5.6 J	0.014	--	0.43 J	0.46 U	--	--	0.550 J	0.550 J	--	--
101915117	SB-418C	13 - 15	10/19/2015	0.0600 U	0.0600 U	--	0.0315 J	0.0600 U	--	--	0.180 U	3.1	88.1	0.065 J	31.0	--	5.8 J	0.022	--	1.0	0.55 U	--	--	0.353 J	0.311 J	--	--
102115158	SB-418D	13 - 15	10/21/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.3	172	0.066 J	29.8	--	6.2 J	0.011 J	--	0.95	0.51 U	--	--	0.351 J	0.351 J	--	--
102115159	SB-418E	18 - 20	10/21/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	3.2	67.6	0.034 J	21.7	--	5.1 J	0.0099 J	--	0.80	0.46 U	--	--	0.101 UJ	0.101 U	--	--
102115160	SB-418F	8 - 10	10/21/2015	215.000	63.200 U	--	**841.000**	175.000	--	--	**652.000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
102115161	SB-418F	8 - 10	10/21/2015	**287.000**	30.000 U	--	**745.000**	209.000	--	--	**866.000**	7.3	140	0.57	14.6	--	46.6	0.074	--	1.1	0.74 U	--	--	0.00321 UJ	13.4	--	--
102115162	SB-418F	13 - 15	10/21/2015	0.0600 U	0.0600 U	--	0.0388 J	0.0600 U	--	--	0.180 U	2.1 J	49.9 J	0.038 J	14.2 J	--	3.4 J	0.012 U	--	0.48 J	0.61 UJ	--	--	0.500 J	0.500 J	--	--
102115163/102115164 (N)	SB-418G	13 - 15	10/21/2015	0.0600 U	0.0600 U	--	0.0380 J	0.0600 U	--	--	0.180 U	4.1	120 J	0.081	31.1	--	7.1 J	0.0081 J	--	0.99	0.51 U	--	--	0.463 J	0.463 J	--	--
102115165	SB-418H	4 - 6	10/21/2015	0.0600 U	0.106	--	0.0382 J	0.0578 J	--	--	0.180 U	4.6	66.7	0.51	17.6	--	182	0.027	--	0.93	0.53 U	--	--	0.651 J-	0.651 J-	--	--
102115166	SB-418I	7 - 9	10/21/2015	0.0790 J	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	**15.3**	110	0.13 J	25.9	--	198	0.030	--	1.4	0.87 U	--	--	4.58	5.35	--	--
102115167	SB-418I	13 - 15	10/21/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	3.7	65.2	0.054 J	24.8	--	5.9 J	0.0069 J	--	0.78	0.55 U	--	--	0.149 J	0.149 J	--	--
020816001	SB-418J	6 - 8	02/08/2016	0.317	0.0702 J	--	0.141	0.559	0.403	0.606	1.010	6.700 J-	50.700	0.260 J	13.700	--	57.200	0.220	--	1.800 J-	0.022 U	--	--	6.460 UJ	16.500 J	--	--
020816002	SB-418J	12 - 14	02/08/2016	0.0250 U	0.0250 U	--	0.0250 U	0.0250 U	0.0250 U	0.0500 U	0.0750 U	2.900 J-	86.600	0.100 U	29.400	--	7.100 J-	0.0063 J	--	1.400 J-	0.023 U	--	--	0.205 UJ	0.104 J	--	--
020816003	SB-418K	8 - 10	02/08/2016	0.210	0.384	--	0.182	0.193	0.248	0.312	0.561	6.800	80.300	0.800 U	11.800	--	57.700	0.230	--	1.800 J-	0.034 J	--	--	7.870 UJ	47.700 J	--	--
020816004	SB-418K	16 - 18	02/08/2016	0.0250 U	0.0250 U	--	0.0250 U	0.0250 U	0.0250 U	0.0500 U	0.0750 U	5.600 J-	101.000	0.100 U	40.300	--	7.600 J-	0.0099 J	--	1.300 J-	0.023 U	--	--	0.249 UJ	0.832 J	--	--
020816005/020816006 (N)	SB-418L	8 - 10	02/08/2016	0.297	0.114	--	0.296	0.730	0.370	0.704	1.070	7.600 J-	72.400 J	1.500 J	11.800	--	147.000 J	0.240	--	2.500 J-	0.022 U	--	--	1.660 UJ	45.800 J	--	--
020816007	SB-418L	10 - 12	02/08/2016	0.346	0.455	--	0.161 J	0.0250 U	0.307	0.151 J	0.458 J	**49.400**	71.500	0.480 J	38.500	--	336.000	1.500	--	1.700 U	0.850 U	--	--	18.400 J	158.000 J	--	--
020816008	SB-418L	14 - 15	02/08/2016	0.0250 U	0.0250 U	--	0.0250 U	0.0250 U	0.0250 U	0.0500 U	0.0750 U	2.500 J-	64.900	0.099 U	28.500	--	6.200 J	0.0099 J	--	1.300 J-	0.022 U	--	--	0.227 UJ	0.392 J	--	--
020816009	SB-418M	8 - 10	02/08/2016	0.195	0.218	--	0.0892	0.111	0.0914	0.283	0.375	5.000 J-	137.000	0.710 J	24.400	--	361.000	4.600	--	1.800 J-	1.600 J-	--	--	1.610 UJ	3.890 J	--	--
020816010	SB-418M	10 - 12	02/08/2016	0.0250 U	0.0250 U	--	0.0250 U	0.0250 U	0.0250 U	0.0500 U	0.0750 U	4.200 J-	89.800	0.110 U	37.000	--	6.900 J-	0.0074 J	--	1.600 J-	0.410 U	--	--	0.264 UJ	0.132 UJ	--	--
101915107	SB-419	1 - 3	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0462 J	--	--	0.180 U	0.96	5.0	0.026 J	5.8	--	1.6	0.0060 J	--	0.46 U	0.46 U	--	--	0.118 UJ	0.118 U	--	--
101915108	SB-419	3 - 5	10/19/2015	0.550	0.319	--	0.128	0.596	--	--	0.974	5.6	36.7	0.072 J	14.7	--	107	93.6	--	1.2	0.61 U	--	--	0.00239 UJ	25.2	--	--
072414085	SB-419-1994	1 - 3	12/02/1994	--	0.005 U	--	**66.000**	0.005 U	--	--	0.015 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
101915109	SB-420	1 - 3	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	1.0	3.5	0.066 U	2.7	--	3.4	0.073	--	0.15 J	0.41 U	--	--	0.124 UJ	0.124 U	--	6,140
101915110	SB-420	3 - 5	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0694 J	--	--	0.131 J	**12.9**	86.1	0.32	8.9	--	59.5	0.18	--	1.1	0.55 U	--	--	1.00 J	1.00 J	--	--
102015130	SB-431	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	3.3	59.7	0.50	32.7	--	38.2	1.5	--	0.87	1.0	--	--	0.216 J	0.216 J	--	--
102015131	SB-431	4 - 6	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	**11.3**	107	0.54	26.1	--	**883**	3.6	--	1.2	0.18 J	--	--	0.00278 UJ	24.2	--	43,000
102015128	SB-432	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	3.3	54.0	0.14	22.8	--	37.1 J	0.65	--	0.67	0.15 J	--	--	0.118 UJ	0.118 U	--	--
102015129	SB-432	4 - 6	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0583 J	--	--	0.180 U	5.5	37.5	0.25	28.5	--	98.3	0.072	--	0.82	0.56 U	--	--	0.00243 UJ	9.61	--	--
102015132	SB-433	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	3.7	79.2	0.89	40.1	--	66.4	1.3	--	0.72	1.8	--	--	0.165 J	0.165 J	--	--
102015133	SB-433	3 - 5	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	3.9	55.4	0.12	13.0	--	94.4	0.12	--	0.93	0.14 J	--	--	0.00233 UJ	2.99	--	38,300
102015134	SB-434	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	3.2	60.4	0.26	25.8	--	31.0 J	0.51	--	0.83	0.39 J	--	--	0.153 J	0.153 J	--	--
102015135	SB-434	8 - 10	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	2.3	55.2	0.16	24.3	--	6.0 J	0.084	--	1.3	0.85 U	--	--	0.554 J	0.554 J	--	--
102015136	SB-435	0 - 2	10/20/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	4.5	132	0.25	40.3	--	20.6 J	0.028	--	1.3	0.54 U	--	--	0.104 UJ	0.104 U	--	--
102015137	SB-435	13 - 15	10/20/2015	0.159	0.0600 U	--	0.483	0.0600 U	--	--	0.116 J	1.5	24.4	0.093	13.0	--	5.3 J	0.019	--	0.64	0.49 U	--	--	0.300	2.36	--	--
102115154	SB-437	0 - 2	10/21/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	5.4	135	0.24	40.1	--	20.7 J	0.15	--	1.2	0.40 U	--	--	1.32 J	1.32	--	--
102115155/102115156 (N)	SB-437	4 - 6	10/21/2015	0.0855	0.287	--	0.0444 J	0.244	--	--	0.206 J	**93.3** J	704 J	1.6 J	36.6	--	104 J	0.15 J	--	3.6 J	0.23 J	--	--	7.60 J	24.4	--	--
102115157	SB-437	13 - 15	10/21/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	0.92	21.7	0.060 J	11.9	--	2.9	0.0094 J	--	0.52 J	0.56 U	--	--	0.462 J	0.462 J	--	--
102115152	SB-438	0 - 2	10/21/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	4.0	88.7	0.058 J	30.4	--	7.5 J	0.067	--	1.3	0.48 U	--	--	0.0989 UJ	0.099 U	--	--
102115153	SB-438	13 - 15	10/21/2015	0.600 U	0.501 J	--	**70.800**	0.805 J	--	--	1.800 U	**9.4**	170	0.40	55.2	--	318	2.3	--	1.6	0.35 J	--	--	0.00238 UJ	28.8	--	--
101915104	SG401	1 - 2	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	3.7	12.9	0.11	10.2	--	21.1	0.0078 J	--	0.37 J	0.49 U	--	--	0.107 UJ	0.107 U	--	--
101915105	SG401	9 - 11	10/19/2015	6.900	3.560	--	13.000	1.200 U	--	--	6.220	1.2	12.6	0.18	8.3	--	21.5	0.022	--	0.50 J	0.53 U	--	--	6.08	29.1	--	--
101915106	SG401	13 - 15	10/19/2015	0.0600 U	0.0600 U	--	0.0600 U	0.0600 U	--	--	0.180 U	1.4	25.7	0.073 U	11.7	--	2.4 J	0.0029 J	--	0.43 J	0.46 U	--	--	0.00248 UJ	0.787	--	--

Table 3. Soil VOCs and Inorganic Analytical Results Compared to Residential and Industrial SLs

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Street, Green Bay, WI 54307
BRRTS# 02-05-000254 | USEPA# WIN000509948

9-digit Code	Sample Location	Sample Depth (feet-BGS)	Sample Date	PVOC 1,2,4-Trimethylbenzene	PVOC Benzene	PVOC BTEX, Total	PVOC Ethylbenzene	PVOC Toluene	PVOC Xylene, o	PVOC Xylenes, m + p	PVOC Xylenes, Total	Metal Arsenic, Total	Metal Barium, Total	Metal Cadmium, Total	Metal Chromium, Total	Metal Copper, Total	Metal Lead, Total	Metal Mercury, Total	Metal Nickel, Total	Metal Selenium, Total	Metal Silver, Total	Metal Thallium, Total	Metal Zinc, Total	Cyanide Cyanide, Amenable	Cyanide Cyanide, Total	Cyanide Cyanide, Weak Acid Dissociable	Organic Carbon, Total Organic
Reporting Units:				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				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 Industrial Soil SLs:				**219**	**5.1**	**NS**	**25**	**818**	**434**	**388**	**260**	**8**	**100,000**	**100**	**100,000**	**47,000**	**800**	**350**	**22,000**	**5,800**	**5,800**	**12**	**100,000**	**1,200**	**1,200**	**1,200**	**NS**
WI Residential Soil SLs:				219	1.2	NS	5.8	818	434	388	260	8	15,000	7.1	100,000	3,100	400	23	1,500	390	390	0.78	23,000	78	78	78	NS
072414036	SS-2	0.5 - 1.5	05/20/1985	--	--	--	--	--	--	--	--	0.860	--	0.700 U	3.000	12.000	51.000	0.040 U	5.400	0.010	0.200 U	ND U	43.000	ND U	0.590	--	--
072414035	SS-2	0 - 0.5	05/20/1985	--	--	--	--	--	--	--	--	4.000	--	0.700 U	2.800	8.400	27.000	0.040 U	4.600	0.010 U	0.200 U	1.400	46.000	ND U	0.100 U	--	--
072414038	SS-3	0.5 - 1.5	05/20/1985	--	--	--	--	--	--	--	--	0.480	--	0.700 U	2.400 U	3.200	4.300 U	0.040 U	ND U	0.010 U	0.260	ND U	6.800	ND U	0.100 U	--	--
072414037	SS-3	0 - 0.5	05/20/1985	--	--	--	--	--	--	--	--	5.800	--	0.700 U	2.400 U	3.800	6.400	0.050	ND U	0.040	0.240	ND U	11.000	ND U	0.100 U	--	--
072414023	Topsoil 1	0 - 0.5	05/27/2003	--	0.025 U	0.133	0.025 U	0.033	--	--	0.050 U	2.800	59.000	0.670	29.000	--	43.000	0.016 U	--	0.770	1.100	--	--	0.460	0.460	--	--
072414024	Topsoil 2	0 - 0.5	05/27/2003	--	0.025 U	0.050 U	0.025 U	0.025 U	--	--	0.050 U	2.500	61.000	0.340	24.000	--	30.000	0.270	--	0.500	0.280	--	--	2.000	2.000	--	--
072414032	TP-10	5.5	05/20/2003	--	0.025 U	0.050 U	0.025 U	0.025 U	--	--	0.050 U	--	--	--	--	--	--	--	--	--	--	--	--	2.000	2.000	0.130	--
Total Number of Samples Analyzed:				58	89	16	89	89	9	9	89	74	70	74	74	4	74	74	4	74	74	4	4	77	77	5	13
Number of Detections:				15	26	12	35	31	5	5	30	74	70	62	72	4	73	69	2	69	28	1	4	45	63	5	13
Min:				0.0611	0.0375	0.133	0.0291	0.033	0.0914	0.151	0.071	0.48	3.5	0.026	1.3	3.2	1.6	0.0029	4.6	0.01	0.023	1.4	6.8	0.149	0.104	0.13	2,000
Max:				287	23.1	5.94	841	209	0.403	0.704	866	93.3	704	1.6	55.2	12	7,900	93.6	5.4	22	1.8	1.4	46	1,500	1,500	47	176,000
WI Industrial Soil SLs:				219	5.1	NS	25	818	434	388	260	8	100000	100	100000	47000	800	350	22000	5800	5800	12	100000	1200	1200	1200	NS
Number of Samples that Exceed WI Industrial Soil SL:				1	1	0	5	0	0	0	2	10	0	0	0	0	4	0	0	0	0	0	0	1	1	0	0
WI Residential Soil SLs:				219	1.2	NS	5.8	818	434	388	260	8	15000	7.1	100000	3100	400	23	1500	390	390	0.78	23000	78	78	78	NS
Number of Samples that Exceed WI Residential Soil SL:				1	5	0	6	0	0	0	2	10	0	0	0	0	4	1	0	0	0	1	0	3	5	0	0

[O:CMD 8/6/20, C:SGW 8/7/20, QA:ESM 8/14/20,U:MGP 3/2/22]

Notes:
Analyte concentration exceeds the standard for:

Bold	**WI Industrial Soil SLs**
Underlined	WI Residential Soil SLs
Pink Highlighting	result exceeds one or more screening criteria
Yellow Highlighting	analyte exceedance in statistics for one or more samples

Lab comments, additional data qualifiers and definitions can be found in associated laboratory and validation reports.

-- = Analysis not performed
% = percent
(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
BGS = Below ground surface
BRRTS = Bureau for Remediation and Redevelopment Tracking System
J = Estimated concentration
J- = Indicates a concentration estimated with low bias
mg/kg = milligrams per kilogram
MGP = manufactured gas plant
ND = analyte not detected
NS = No Screening Level
PVOC = Petroleum Volatile Organic Compound: 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Benzene, Ethylbenzene, Toluene, and Total Xylenes (BTEX)
RAF = Risk Assessment Framework
RI = remedial investigation
RSL = Regional Screening Level (EPA)
SL = Screening Level
U = Concentration was not detected above the reported limit
USEPA = United States Environmental Protection Agency

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

Table 4. Sampling and Analysis Plan Summary

Pre-Design Investigation Work Plan, Addendum 2
Wisconsin Public Service Corporation
Former MGP Site - Green Bay
700 N. Adams Steet, Green Bay, WI 54307
BRRTS# 02 05 000254 USEPA# WIN000509948

SAMPLE TYPE	SAMPLE FREQUENCY	ESTIMATED NUMBER OF SAMPLES[1]	PARAMETER	METHOD	FIELD DUPLICATES (1 extra volume)	MS/MSD (2 extra volumes)	EQUIPMENT BLANKS	TRIP BLANKS	TOTAL NUMBER OF SAMPLES	ESTIMATED NO. OF CONTAINERS	CONTAINER TYPE	MINIMUM VOLUME	PRESERVATION (Cool All Samples to 4° ± 2°C Unless 'None' Indicated)	HOLDING TIME FROM SAMPLING DATE
Subsurface Investigation per Workplan Addendum	If visual, olfactory, or PID indications of impacts: 1 within impacted interval(s), 1 immediately below impacted interval(s), 1 from bottom of boring. If no indication of impacts: 1 sample within 2-ft interval above clay	Continuous	Logging	Multi-Site SOP SAS-05-02	--									
		Up to 3 per boring	PVOCs [1]	8260	1 per 20	1 per 20	Equipment blanks will be collected at a frequency of 1 per soil sampling day with non-dedicated sampling equipment.	VOC trip blanks will accompany each cooler containing VOC samples.	Min: 26 samples collected & 17 samples analyzed; Max: 78 samples collected & analyzed	Min: 26 Max: 78	Glass Vial	2 oz.	NaSO4 and MeOH	48 hours to freeze 14 days to analyze
		Up to 3 per boring	PAHs [2]	8270	1 per 20	1 per 20				Min: 26 Max: 78	Glass	4 oz.	--	14 days to extract 40 days to analyze
		Up to 3 per boring	Total Metals [3]	6020A/7471	1 per 20	1 per 20				Min: 26 Max: 78	Plastic	5 oz.	--	14 days/6 months
		Up to 3 per boring	Total Cyanide	9012B	1 per 20	1 per 20				Min: 26 Max: 78	Glass	4 oz.	--	14 days

Notes:

1. Petroleum volatile organic compounds (PVOCs) include benzene, ethylbenzene, toluene, total xylenes, and 1,2,4-trimethylbenzene
2. Polycyclic aromatic hydrocarbon (PAHs) include 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
3. Total Metals include arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver