



Wisconsin Public Service Corporation

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

www.wisconsinpublicservice.com

March 15, 2022

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

**RE: February 2022 Monthly Progress Report
Green Bay Former Manufactured Gas Plant
Green Bay, Wisconsin
Wisconsin Public Service Corporation
CERCLA Docket No. V-W-06-C-847, CERCLIS ID – WIN000509948**

Dear Ms. Werner:

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

1) PROGRESS MADE DURING THE PAST MONTH

- Prepared and submitted January 2022 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by February 15, 2022.
- Submitted *Supplemental Investigation Results Memo* on February 18, 2022 summarizing the 2021 December Utility Corridor Investigation and September Sediment, Surface Water and Sheen Sampling Events.

2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

- Groundwater sample results collected at SB-608 during the utility corridor investigation.

3) PROJECTED WORK

WPSC Actions

- Submit monthly progress report to USEPA by the 15th of the month.
- Submit a summary data package of Pre-Design Investigation (PDI) and Site-Specific Work Plan (SWWP) investigation results.
- Submit a *Supplemental PDI Work Plan* to address potential data gaps for Early Removal Action planning and redevelopment of the north parking lot. Field work is planned for April 2022.
- Respond to comments and revise *Letter of Intent* (LOI) for and Early Removal Action in the northern portion of the upland OU and incorporate comments into a *Remedial Action Work Plan* (RAWP).

- Continue to evaluate and incorporate PDI data into a *PDI Data Summary Report*, which will be incorporated into the RAWP for the Early Removal Action.
- Prepare to receive comments on the *Supplemental Investigation Results Memo* and incorporate comments into the RAWP for the Early Removal Action.
- Respond to comments on the *Sediment OU RI Report, Revision 1*.

USEPA Actions

- Review and comment on a *Supplemental Investigation Results Memo* of the 2021 Utility Corridor and Sediment sampling events.
- Prepare to receive *PDI Work Plan, Addendum 2* for additional investigation planned for April 2022.
- Prepare to receive a *Letter of Intent to Conduct and Early Removal Action* in the northern portion of the upland OU.

4) PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED

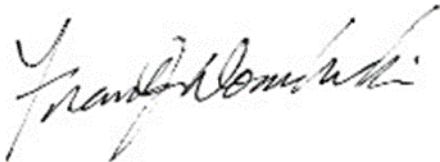
- None.

5) ACTUAL OR PLANNED RESOLUTION OF PROBLEMS OR POTENTIAL PROBLEMS

- None.

If you have any questions, please don't hesitate to contact me at (414) 221-2156 or via email at frank.dombrowski@wecenergygroup.com.

Sincerely,



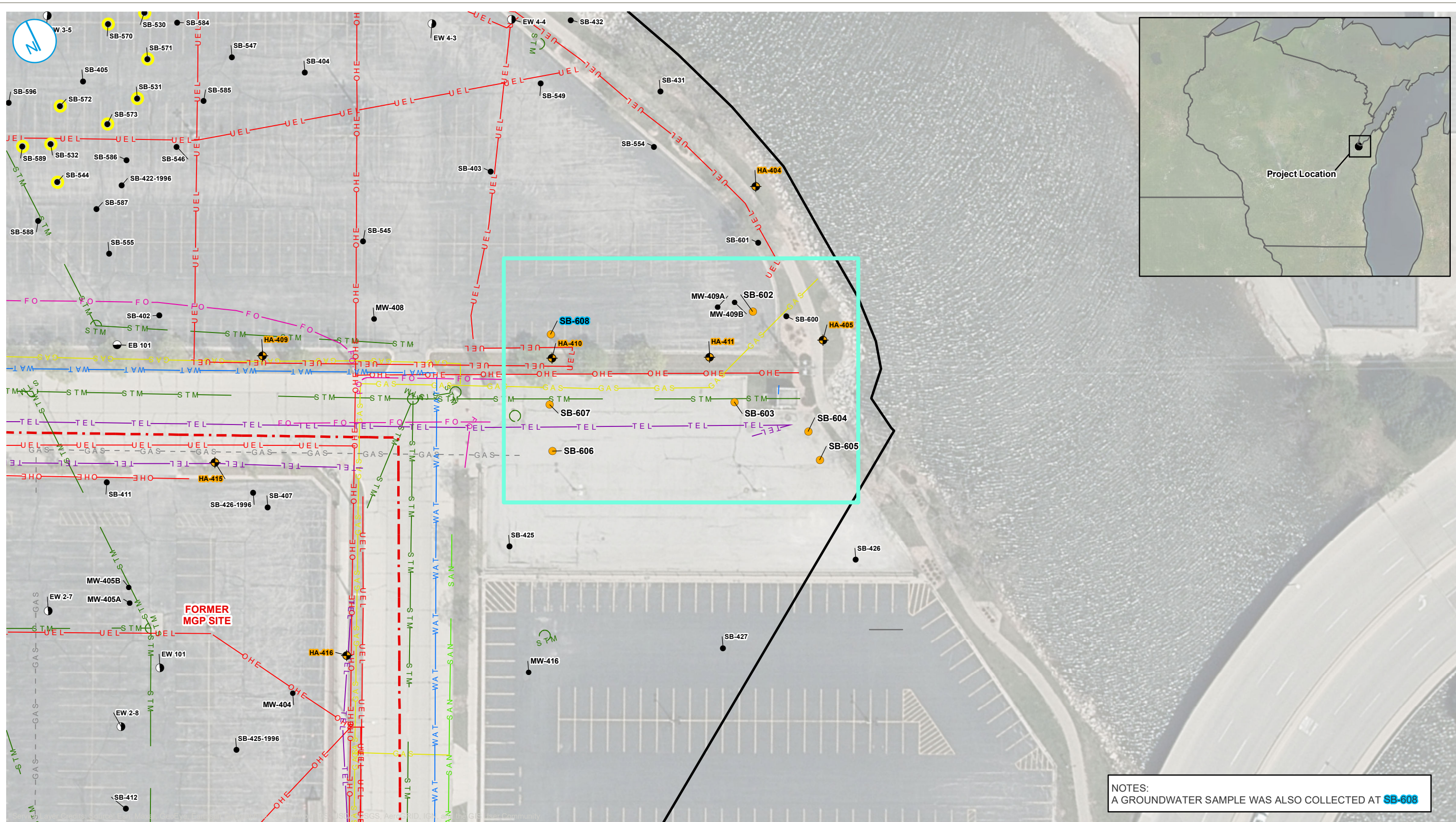
Frank Dombrowski
Principal Environmental Consultant
WEC Business Services – Environmental Dept.

Enclosures: Figure 1. Groundwater Sample Location
 Table 1. December 2021 Groundwater Analytical Results Compared to the Groundwater SL, the PAL, and Tap Water Criteria
 Table 2. December 2021 Groundwater Sample Results Compared to VISLs
 [Green Bay MGP February 2022 MPR](#)

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

FIGURES

PROJECT: 169000XXXXX | DATED: 3/9/2022 | DESIGNER: HOTCALD
 Y:\GIS\Projects\1511564\MXD\FieldWork_Addendum_2021\actual_locations\Figure 1_Utility Investigation with GW Boring Location_20220309.mxd



NOTES:
 A GROUNDWATER SAMPLE WAS ALSO COLLECTED AT **SB-608**

- | | | | |
|-------------------------------------|-------------------------|-------------------------|--------------------------------|
| ▲ INDOOR AIR SAMPLING LOCATION | ◆ GEOTECHNICAL LOCATION | — BUILDING FOOTPRINT | TEL TELEPHONE LINE |
| ▲ SOIL GAS SAMPLING LOCATION | ▲ OIP LOCATION | UTILITIES | WAT WATER LINE |
| ● EXCAVATION BASE SAMPLING LOCATION | ● SOIL BORING LOCATION | FO FIBER OPTIC LINE | UEL UNDERGROUND ELECTRIC LINE |
| ● EXCAVATION WALL SAMPLING LOCATION | ● NAPL OBSERVATION | GAS GAS LINE | OHE OVERHEAD ELECTRIC LINE |
| ● HAND AUGER SAMPLING LOCATION | ● UPLAND SITE BOUNDARY | SAN SANITARY SEWER LINE | GAS- ABANDONED GAS LINE |
| | ● FORMER MGP SITE | STM STORM SEWER LINE | ● SOIL BORING (DECEMBER 2021)* |
| | | | ■ INVESTIGATION AREA |



UTILITY CORRIDOR INVESTIGATION WITH GROUNDWATER SAMPLE LOCATION

PRE-DESIGN INVESTIGATION EVALUATION REPORT
 FORMER GREEN BAY MANUFACTURED GAS PLANT
 WISCONSIN PUBLIC SERVICE CORPORATION
 GREEN BAY, WISCONSIN

FIGURE 1

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



TABLES

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

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

9-digit Code	Sample Location	Sample Date	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal																	
			Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Cadmium, Total	Chromium, Total	Copper, Total	Iron, Total	Lead, Total	Manganese, Total	Mercury, Total	Nickel, Total	Selenium, Total	Silver, Total	Vanadium, Total	Zinc, Total																
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L																
Reporting Units:			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag																
WI Groundwater SL:			200		6		10		2,000		5		100		1,300		NS		15		300		2		100		50		50		30		NS	
WI Groundwater PAL:			40		1.2		1		400		0.5		10		130		150		1.5		60		0.2		20		10		10		6		2,500	
Tap Water RSL:			20,000		7.8		0.052		3,800		1.8		22,000		800		14,000		15		430		5.7		390		100		94		86		6,000	
122121001/122121002 (N)	SB-608	12/21/2021	6.030		0.46		3.2		106		0.30 U		12.8		11.8		12,000		16.0		628		0.066 U		7.2		0.63 U		0.25 U		15.4		63.6	
122121003	TB01	12/21/2021	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	

[O:CMD 2/8/22, C:ECB 3/8/22]

Underline attains or exceeds the WI Groundwater PAL
Italic exceeds the Tap Water RSL
Pink Highlighting Groundwater SL exceedance; results only exceeding the PAL and/or Tap Water criteria are not highlighted.

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

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

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. The RSLs necessary for the MGP-related constituents evaluated in this table are up to date with the most recent revision.
 PAL from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020. Results that attain or exceed the PAL are considered to be in exceedance.

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

Acronyms:
 (N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
 µg/L = micrograms per liter
 BRRTS = Bureau for Remediation and Redevelopment Tracking System
 EPA = Environmental Protection Agency
 MCL = Maximum Contaminant Level
 MGP = Manufactured Gas Plant
 NS = No Screening Level/No Standard
 PAH = Polycyclic Aromatic Hydrocarbon
 PAL = Preventive Action Limit
 PVOC = Petroleum Volatile Organic Compound
 RSL = Regional Screening Level
 SL = Screening Level
 USEPA = United States Environmental Protection Agency
 WI = Wisconsin

Table 2. December 2021 Groundwater Sample Results Compared to VISLs

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

9-digit Code	Sample Location	Sample Date	PVOC	PVOC	PVOC	PVOC	PVOC	PVOC	PVOC	PVOC	PAH	
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trimethylbenzenes, Total ¹	Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	Naphthalene
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Groundwater VISL, Industrial:			1,040	733	1,040	6.9	15	80,700	2,070	1,490	1,620	20
Groundwater VISL, Residential:			<u>248</u>	<u>175</u>	<u>248</u>	<u>1.6</u>	<u>3.5</u>	<u>19,200</u>	<u>492</u>	<u>355</u>	<u>385</u>	<u>4.6</u>
122121001/122121002 (N)	SB-608	12/21/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.047
122121003	TB01	12/21/2021	0.45 U	0.36 U	0.81 U	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	--

[O:CMD 2/8/22, C:ECB 3/8/22]

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

Bold	exceeds the Groundwater VISL, Industrial
<u>Underline</u>	exceeds the Groundwater VISL, Residential
Pink Highlighting	result exceeds one or more screening criteria

Results & Flags:

-- = Analysis not performed
 U = Concentration was not detected above the reported limit

Acronyms:

(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
 µg/L = micrograms per liter
 BRRTS = Bureau for Remediation and Redevelopment Tracking System
 EPA = Environmental Protection Agency
 MGP = Manufactured Gas Plant
 PAH = Polycyclic Aromatic Hydrocarbon
 PVOC = Petroleum Volatile Organic Compound
 RSL = Regional Screening Level
 TB = Trip Blank
 USEPA = United States Environmental Protection Agency
 VISL = Vapor Intrusion Screening Level

Superscripts:

- Total Trimethylbenzenes were calculated by Ramboll as follows:
 - Where no detections were observed, the sum of the reporting limits is presented.
 - Where detections were observed, only the detected results were added together for the total summation.
 - Analytes used for the calculation are 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

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. The RSLs necessary for the MGP-related constituents evaluated in this table are up to date with the most recent revision.

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

ANALYTICAL LABORATORY REPORTS

January 05, 2022

Staci Goetz
Ramboll US Consulting, Inc.
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204

RE: Project: 1940101253 GREEN BAY FORMER MG
Pace Project No.: 40238726

Dear Staci Goetz:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Phil Brochocki, Ramboll
NRT Data, Ramboll
Eric Hritsuk, Ramboll
Kyle Schaefer, Ramboll Americas
Dan Vachon, O'Brien & Gere Engineers, Inc Integrys WI
Steve Wiskes, Ramboll



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238726001	122121001	Water	12/21/21 14:35	12/22/21 10:21
40238726002	122121002	Water	12/21/21 14:40	12/22/21 10:21
40238726003	122121003	Water	12/21/21 00:00	12/22/21 10:21

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40238726001	122121001	EPA 6020B	KXS	15
		EPA 7470	AJT	1
		EPA 8270E by SIM	RJN	19
		EPA 8260	LAP	11
40238726002	122121002	EPA 6020B	KXS	15
		EPA 7470	AJT	1
		EPA 8270E by SIM	RJN	19
		EPA 8260	LAP	11
40238726003	122121003	EPA 8260	LAP	11
		EPA 8260	LAP	11

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Method: EPA 6020B

Description: 6020B MET ICPMS

Client: O'Brien & Gere Engineers, Inc Integrys WI

Date: January 05, 2022

General Information:

2 samples were analyzed for EPA 6020B by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 405198

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 122121001 (Lab ID: 40238726001)
 - Silver
 - Cadmium
 - Copper
 - Antimony
 - Selenium
 - Zinc
- 122121002 (Lab ID: 40238726002)
 - Silver
 - Cadmium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Method: EPA 6020B

Description: 6020B MET ICPMS

Client: O'Brien & Gere Engineers, Inc Integrys WI

Date: January 05, 2022

Analyte Comments:

QC Batch: 405198

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 122121002 (Lab ID: 40238726002)
 - Copper
 - Antimony
 - Selenium
 - Zinc

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Method: EPA 7470

Description: 7470 Mercury

Client: O'Brien & Gere Engineers, Inc Integrys WI

Date: January 05, 2022

General Information:

2 samples were analyzed for EPA 7470 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Method: EPA 8270E by SIM

Description: 8270E MSSV PAH

Client: O'Brien & Gere Engineers, Inc Integrys WI

Date: January 05, 2022

General Information:

2 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 404944

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40238662001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2337351)
 - Acenaphthylene
 - Fluorene
 - Naphthalene
 - Phenanthrene
 - Pyrene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2337351)
 - 2-Methylnaphthalene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Method: EPA 8270E by SIM

Description: 8270E MSSV PAH

Client: O'Brien & Gere Engineers, Inc Integrys WI

Date: January 05, 2022

QC Batch: 404944

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40238662001

R1: RPD value was outside control limits.

- 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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Method: EPA 8260

Description: 8260 MSV UST

Client: O'Brien & Gere Engineers, Inc Integrys WI

Date: January 05, 2022

General Information:

3 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG
Pace Project No.: 40238726

Sample: 122121001 **Lab ID: 40238726001** Collected: 12/21/21 14:35 Received: 12/22/21 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum	5780	ug/L	500	117	2	12/29/21 06:05	01/04/22 14:44	7429-90-5	
Antimony	0.38J	ug/L	2.0	0.30	2	12/29/21 06:05	01/04/22 14:44	7440-36-0	D3
Arsenic	2.9	ug/L	2.0	0.56	2	12/29/21 06:05	01/04/22 14:44	7440-38-2	
Barium	103	ug/L	4.7	1.4	2	12/29/21 06:05	01/04/22 14:44	7440-39-3	
Cadmium	<0.30	ug/L	2.0	0.30	2	12/29/21 06:05	01/04/22 14:44	7440-43-9	D3
Chromium	12.2	ug/L	6.8	2.0	2	12/29/21 06:05	01/04/22 14:44	7440-47-3	
Copper	9.7J	ug/L	12.7	3.8	2	12/29/21 06:05	01/04/22 14:44	7440-50-8	D3
Iron	12000	ug/L	500	116	2	12/29/21 06:05	01/04/22 14:44	7439-89-6	
Lead	14.8	ug/L	2.0	0.47	2	12/29/21 06:05	01/04/22 14:44	7439-92-1	
Manganese	628	ug/L	8.1	2.4	2	12/29/21 06:05	01/04/22 14:44	7439-96-5	
Nickel	6.6	ug/L	2.0	0.57	2	12/29/21 06:05	01/04/22 14:44	7440-02-0	
Selenium	<0.63	ug/L	2.1	0.63	2	12/29/21 06:05	01/04/22 14:44	7782-49-2	D3
Silver	<0.25	ug/L	1.0	0.25	2	12/29/21 06:05	01/04/22 14:44	7440-22-4	D3
Vanadium	15.0	ug/L	2.1	0.63	2	12/29/21 06:05	01/04/22 14:44	7440-62-2	
Zinc	60.6J	ug/L	68.9	20.7	2	12/29/21 06:05	01/04/22 14:44	7440-66-6	D3
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	01/03/22 09:50	01/04/22 07:42	7439-97-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	0.043J	ug/L	0.046	0.013	1	12/23/21 08:45	12/27/21 11:32	83-32-9	
Acenaphthylene	0.076	ug/L	0.046	0.012	1	12/23/21 08:45	12/27/21 11:32	208-96-8	
Anthracene	0.55	ug/L	0.046	0.017	1	12/23/21 08:45	12/27/21 11:32	120-12-7	
Benzo(a)anthracene	0.22	ug/L	0.046	0.013	1	12/23/21 08:45	12/27/21 11:32	56-55-3	
Benzo(a)pyrene	0.21	ug/L	0.046	0.018	1	12/23/21 08:45	12/27/21 11:32	50-32-8	
Benzo(b)fluoranthene	0.40	ug/L	0.046	0.018	1	12/23/21 08:45	12/27/21 11:32	205-99-2	
Benzo(g,h,i)perylene	0.26	ug/L	0.046	0.022	1	12/23/21 08:45	12/27/21 11:32	191-24-2	
Benzo(k)fluoranthene	0.18	ug/L	0.046	0.021	1	12/23/21 08:45	12/27/21 11:32	207-08-9	
Chrysene	0.39	ug/L	0.046	0.025	1	12/23/21 08:45	12/27/21 11:32	218-01-9	
Dibenz(a,h)anthracene	0.052	ug/L	0.046	0.017	1	12/23/21 08:45	12/27/21 11:32	53-70-3	
Fluoranthene	0.74	ug/L	0.046	0.024	1	12/23/21 08:45	12/27/21 11:32	206-44-0	
Fluorene	0.037J	ug/L	0.046	0.022	1	12/23/21 08:45	12/27/21 11:32	86-73-7	
Indeno(1,2,3-cd)pyrene	0.19	ug/L	0.046	0.014	1	12/23/21 08:45	12/27/21 11:32	193-39-5	
2-Methylnaphthalene	0.013J	ug/L	0.046	0.013	1	12/23/21 08:45	12/27/21 11:32	91-57-6	
Naphthalene	0.030J	ug/L	0.046	0.018	1	12/23/21 08:45	12/27/21 11:32	91-20-3	
Phenanthrene	0.18	ug/L	0.046	0.024	1	12/23/21 08:45	12/27/21 11:32	85-01-8	
Pyrene	0.64	ug/L	0.046	0.021	1	12/23/21 08:45	12/27/21 11:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	10-113		1	12/23/21 08:45	12/27/21 11:32	321-60-8	
Terphenyl-d14 (S)	64	%	28-124		1	12/23/21 08:45	12/27/21 11:32	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG
Pace Project No.: 40238726

Sample: 122121001 **Lab ID: 40238726001** Collected: 12/21/21 14:35 Received: 12/22/21 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		12/28/21 01:53	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/28/21 01:53	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/28/21 01:53	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/28/21 01:53	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/28/21 01:53	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		12/28/21 01:53	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/28/21 01:53	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/28/21 01:53	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		12/28/21 01:53	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		12/28/21 01:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		1		12/28/21 01:53	2199-69-1	

Sample: 122121002 **Lab ID: 40238726002** Collected: 12/21/21 14:40 Received: 12/22/21 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum	6030	ug/L	500	117	2	12/29/21 06:05	01/04/22 15:13	7429-90-5	
Antimony	0.46J	ug/L	2.0	0.30	2	12/29/21 06:05	01/04/22 15:13	7440-36-0	D3
Arsenic	3.2	ug/L	2.0	0.56	2	12/29/21 06:05	01/04/22 15:13	7440-38-2	
Barium	106	ug/L	4.7	1.4	2	12/29/21 06:05	01/04/22 15:13	7440-39-3	
Cadmium	<0.30	ug/L	2.0	0.30	2	12/29/21 06:05	01/04/22 15:13	7440-43-9	D3
Chromium	12.8	ug/L	6.8	2.0	2	12/29/21 06:05	01/04/22 15:13	7440-47-3	
Copper	11.8J	ug/L	12.7	3.8	2	12/29/21 06:05	01/04/22 15:13	7440-50-8	D3
Iron	12000	ug/L	500	116	2	12/29/21 06:05	01/04/22 15:13	7439-89-6	
Lead	16.0	ug/L	2.0	0.47	2	12/29/21 06:05	01/04/22 15:13	7439-92-1	
Manganese	598	ug/L	8.1	2.4	2	12/29/21 06:05	01/04/22 15:13	7439-96-5	
Nickel	7.2	ug/L	2.0	0.57	2	12/29/21 06:05	01/04/22 15:13	7440-02-0	
Selenium	<0.63	ug/L	2.1	0.63	2	12/29/21 06:05	01/04/22 15:13	7782-49-2	D3
Silver	<0.25	ug/L	1.0	0.25	2	12/29/21 06:05	01/04/22 15:13	7440-22-4	D3
Vanadium	15.4	ug/L	2.1	0.63	2	12/29/21 06:05	01/04/22 15:13	7440-62-2	
Zinc	63.6J	ug/L	68.9	20.7	2	12/29/21 06:05	01/04/22 15:13	7440-66-6	D3
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	01/03/22 09:50	01/04/22 07:49	7439-97-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	0.035J	ug/L	0.045	0.013	1	12/23/21 08:45	12/27/21 11:50	83-32-9	
Acenaphthylene	0.060	ug/L	0.045	0.011	1	12/23/21 08:45	12/27/21 11:50	208-96-8	

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ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG
Pace Project No.: 40238726

Sample: 122121002 **Lab ID: 40238726002** Collected: 12/21/21 14:40 Received: 12/22/21 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Anthracene	0.38	ug/L	0.045	0.017	1	12/23/21 08:45	12/27/21 11:50	120-12-7	
Benzo(a)anthracene	0.12	ug/L	0.045	0.012	1	12/23/21 08:45	12/27/21 11:50	56-55-3	
Benzo(a)pyrene	0.14	ug/L	0.045	0.018	1	12/23/21 08:45	12/27/21 11:50	50-32-8	
Benzo(b)fluoranthene	0.24	ug/L	0.045	0.018	1	12/23/21 08:45	12/27/21 11:50	205-99-2	
Benzo(g,h,i)perylene	0.16	ug/L	0.045	0.021	1	12/23/21 08:45	12/27/21 11:50	191-24-2	
Benzo(k)fluoranthene	0.098	ug/L	0.045	0.020	1	12/23/21 08:45	12/27/21 11:50	207-08-9	
Chrysene	0.23	ug/L	0.045	0.024	1	12/23/21 08:45	12/27/21 11:50	218-01-9	
Dibenz(a,h)anthracene	0.032J	ug/L	0.045	0.016	1	12/23/21 08:45	12/27/21 11:50	53-70-3	
Fluoranthene	0.42	ug/L	0.045	0.024	1	12/23/21 08:45	12/27/21 11:50	206-44-0	
Fluorene	0.037J	ug/L	0.045	0.021	1	12/23/21 08:45	12/27/21 11:50	86-73-7	
Indeno(1,2,3-cd)pyrene	0.12	ug/L	0.045	0.014	1	12/23/21 08:45	12/27/21 11:50	193-39-5	
2-Methylnaphthalene	0.026J	ug/L	0.045	0.013	1	12/23/21 08:45	12/27/21 11:50	91-57-6	
Naphthalene	0.047	ug/L	0.045	0.018	1	12/23/21 08:45	12/27/21 11:50	91-20-3	
Phenanthrene	0.15	ug/L	0.045	0.023	1	12/23/21 08:45	12/27/21 11:50	85-01-8	
Pyrene	0.35	ug/L	0.045	0.020	1	12/23/21 08:45	12/27/21 11:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	10-113		1	12/23/21 08:45	12/27/21 11:50	321-60-8	
Terphenyl-d14 (S)	60	%	28-124		1	12/23/21 08:45	12/27/21 11:50	1718-51-0	

8260 MSV UST

Analytical Method: EPA 8260
Pace Analytical Services - Green Bay

Benzene	<0.30	ug/L	1.0	0.30	1		12/28/21 11:20	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/28/21 11:20	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/28/21 11:20	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/28/21 11:20	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/28/21 11:20	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		12/28/21 11:20	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/28/21 11:20	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/28/21 11:20	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	70-130		1		12/28/21 11:20	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		12/28/21 11:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		12/28/21 11:20	2199-69-1	

Sample: 122121003 **Lab ID: 40238726003** Collected: 12/21/21 00:00 Received: 12/22/21 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		12/27/21 23:43	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/21 23:43	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/21 23:43	108-88-3	

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ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Sample: 122121003 **Lab ID: 40238726003** Collected: 12/21/21 00:00 Received: 12/22/21 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/21 23:43	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/21 23:43	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		12/27/21 23:43	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/21 23:43	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/21 23:43	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	70-130		1		12/27/21 23:43	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/27/21 23:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	113	%	70-130		1		12/27/21 23:43	2199-69-1	

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QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG
Pace Project No.: 40238726

QC Batch: 405422 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238726001, 40238726002

METHOD BLANK: 2339537 Matrix: Water
Associated Lab Samples: 40238726001, 40238726002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	01/04/22 07:38	

LABORATORY CONTROL SAMPLE: 2339538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339539 2339540

Parameter	Units	40238726001		2339540		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	ug/L	<0.066	5	5	4.9	5.0	98	99	85-115	1	20	

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QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG
Pace Project No.: 40238726

QC Batch: 405198 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238726001, 40238726002

METHOD BLANK: 2338563 Matrix: Water

Associated Lab Samples: 40238726001, 40238726002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<58.7	250	01/04/22 06:02	
Antimony	ug/L	<0.15	1.0	01/04/22 06:02	
Arsenic	ug/L	<0.28	1.0	01/04/22 06:02	
Barium	ug/L	<0.70	2.3	01/04/22 06:02	
Cadmium	ug/L	<0.15	1.0	01/04/22 06:02	
Chromium	ug/L	<1.0	3.4	01/04/22 06:02	
Copper	ug/L	<1.9	6.4	01/04/22 06:02	
Iron	ug/L	<58.0	250	01/04/22 06:02	
Lead	ug/L	<0.24	1.0	01/04/22 06:02	
Manganese	ug/L	<1.2	4.0	01/04/22 06:02	
Nickel	ug/L	<0.28	1.0	01/04/22 06:02	
Selenium	ug/L	<0.32	1.1	01/04/22 06:02	
Silver	ug/L	<0.13	0.50	01/04/22 06:02	
Vanadium	ug/L	<0.32	1.0	01/04/22 06:02	
Zinc	ug/L	<10.3	34.4	01/04/22 06:02	

LABORATORY CONTROL SAMPLE: 2338564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	80-120	
Antimony	ug/L	250	250	100	80-120	
Arsenic	ug/L	250	259	104	80-120	
Barium	ug/L	250	253	101	80-120	
Cadmium	ug/L	250	262	105	80-120	
Chromium	ug/L	250	250	100	80-120	
Copper	ug/L	250	245	98	80-120	
Iron	ug/L	10000	10200	102	80-120	
Lead	ug/L	250	257	103	80-120	
Manganese	ug/L	250	254	101	80-120	
Nickel	ug/L	250	252	101	80-120	
Selenium	ug/L	250	277	111	80-120	
Silver	ug/L	125	124	99	80-120	
Vanadium	ug/L	250	250	100	80-120	
Zinc	ug/L	250	264	106	80-120	

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QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2338565		2338566		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40238726001 Result	MS Spike Conc.	MSD Spike Conc.									
Aluminum	ug/L	5780	10000	10000	18200	17900	124	121	75-125	2	20		
Antimony	ug/L	0.38J	250	250	262	256	105	102	75-125	2	20		
Arsenic	ug/L	2.9	250	250	269	263	106	104	75-125	2	20		
Barium	ug/L	103	250	250	377	373	109	108	75-125	1	20		
Cadmium	ug/L	<0.30	250	250	259	252	103	101	75-125	3	20		
Chromium	ug/L	12.2	250	250	258	252	98	96	75-125	2	20		
Copper	ug/L	9.7J	250	250	253	246	97	94	75-125	3	20		
Iron	ug/L	12000	10000	10000	22100	21800	100	98	75-125	1	20		
Lead	ug/L	14.8	250	250	279	272	106	103	75-125	2	20		
Manganese	ug/L	628	250	250	889	886	105	103	75-125	0	20		
Nickel	ug/L	6.6	250	250	252	243	98	94	75-125	4	20		
Selenium	ug/L	<0.63	250	250	278	270	111	108	75-125	3	20		
Silver	ug/L	<0.25	125	125	120	117	96	94	75-125	2	20		
Vanadium	ug/L	15.0	250	250	266	261	100	99	75-125	2	20		
Zinc	ug/L	60.6J	250	250	316	313	102	101	75-125	1	20		

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QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG
Pace Project No.: 40238726

QC Batch: 405043 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238726001, 40238726002, 40238726003

METHOD BLANK: 2337789 Matrix: Water
Associated Lab Samples: 40238726001, 40238726002, 40238726003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	12/27/21 18:44	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	12/27/21 18:44	
Benzene	ug/L	<0.30	1.0	12/27/21 18:44	
Ethylbenzene	ug/L	<0.33	1.0	12/27/21 18:44	
m&p-Xylene	ug/L	<0.70	2.0	12/27/21 18:44	
o-Xylene	ug/L	<0.35	1.0	12/27/21 18:44	
Toluene	ug/L	<0.29	1.0	12/27/21 18:44	
Xylene (Total)	ug/L	<1.0	3.0	12/27/21 18:44	
1,2-Dichlorobenzene-d4 (S)	%	112	70-130	12/27/21 18:44	
4-Bromofluorobenzene (S)	%	95	70-130	12/27/21 18:44	
Toluene-d8 (S)	%	93	70-130	12/27/21 18:44	

LABORATORY CONTROL SAMPLE: 2337790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	47.7	95	70-132	
Ethylbenzene	ug/L	50	47.7	95	80-123	
m&p-Xylene	ug/L	100	101	101	70-130	
o-Xylene	ug/L	50	49.8	100	70-130	
Toluene	ug/L	50	44.9	90	80-121	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichlorobenzene-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337791 2337792

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40238833005 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<0.30	50	50	48.1	47.4	96	95	70-132	1	20
Ethylbenzene	ug/L	<0.33	50	50	48.7	47.4	97	95	80-123	3	20
m&p-Xylene	ug/L	<0.70	100	100	103	99.2	103	99	70-130	4	20
o-Xylene	ug/L	<0.35	50	50	49.9	49.4	100	99	70-130	1	20
Toluene	ug/L	<0.29	50	50	46.0	44.6	92	89	80-121	3	20
Xylene (Total)	ug/L	<1.0	150	150	153	149	102	99	70-130	3	20
1,2-Dichlorobenzene-d4 (S)	%						108	106	70-130		
4-Bromofluorobenzene (S)	%						100	97	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337791 2337792												
Parameter	Units	40238833005 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%						93	90	70-130			

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QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG
Pace Project No.: 40238726

QC Batch: 404944 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238726001, 40238726002

METHOD BLANK: 2337348 Matrix: Water
Associated Lab Samples: 40238726001, 40238726002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	ug/L	<0.014	0.050	12/27/21 08:27	
Acenaphthene	ug/L	<0.014	0.050	12/27/21 08:27	
Acenaphthylene	ug/L	<0.013	0.050	12/27/21 08:27	
Anthracene	ug/L	<0.018	0.050	12/27/21 08:27	
Benzo(a)anthracene	ug/L	<0.014	0.050	12/27/21 08:27	
Benzo(a)pyrene	ug/L	<0.020	0.050	12/27/21 08:27	
Benzo(b)fluoranthene	ug/L	<0.020	0.050	12/27/21 08:27	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	12/27/21 08:27	
Benzo(k)fluoranthene	ug/L	<0.022	0.050	12/27/21 08:27	
Chrysene	ug/L	<0.027	0.050	12/27/21 08:27	
Dibenz(a,h)anthracene	ug/L	<0.018	0.050	12/27/21 08:27	
Fluoranthene	ug/L	<0.026	0.050	12/27/21 08:27	
Fluorene	ug/L	<0.024	0.050	12/27/21 08:27	
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	0.050	12/27/21 08:27	
Naphthalene	ug/L	<0.020	0.050	12/27/21 08:27	
Phenanthrene	ug/L	<0.026	0.050	12/27/21 08:27	
Pyrene	ug/L	<0.023	0.050	12/27/21 08:27	
2-Fluorobiphenyl (S)	%	60	10-113	12/27/21 08:27	
Terphenyl-d14 (S)	%	77	28-124	12/27/21 08:27	

LABORATORY CONTROL SAMPLE: 2337349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylnaphthalene	ug/L	2	1.3	67	58-120	
Acenaphthene	ug/L	2	1.6	82	71-120	
Acenaphthylene	ug/L	2	1.6	79	68-120	
Anthracene	ug/L	2	1.8	88	63-108	
Benzo(a)anthracene	ug/L	2	1.5	76	54-95	
Benzo(a)pyrene	ug/L	2	1.7	87	75-120	
Benzo(b)fluoranthene	ug/L	2	1.5	75	59-120	
Benzo(g,h,i)perylene	ug/L	2	1.7	87	78-120	
Benzo(k)fluoranthene	ug/L	2	1.8	91	78-120	
Chrysene	ug/L	2	2.0	100	82-128	
Dibenz(a,h)anthracene	ug/L	2	1.8	89	76-120	
Fluoranthene	ug/L	2	1.7	87	74-120	
Fluorene	ug/L	2	1.6	81	69-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	84	74-120	
Naphthalene	ug/L	2	1.5	73	60-120	
Phenanthrene	ug/L	2	1.5	75	65-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG
Pace Project No.: 40238726

LABORATORY CONTROL SAMPLE: 2337349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	2	1.6	80	70-120	
2-Fluorobiphenyl (S)	%			66	10-113	
Terphenyl-d14 (S)	%			74	28-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337350 2337351

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40238662001 Result	Spike Conc.	Spike Conc.	Result						
2-Methylnaphthalene	ug/L	0.000038J mg/L	2	2	1.3	1.0	65	50	31-120	26	20 R1
Acenaphthene	ug/L	<0.000014 mg/L	2	2	1.6	1.2	81	59	39-120	31	20 R1
Acenaphthylene	ug/L	<0.000013 mg/L	2	2	1.5	1.1	77	56	63-120	32	20 M1,R1
Anthracene	ug/L	<0.000018 mg/L	2	2	1.6	1.2	81	62	39-114	27	20 R1
Benzo(a)anthracene	ug/L	<0.000014 mg/L	2	2	1.5	1.1	77	56	38-106	32	20 R1
Benzo(a)pyrene	ug/L	<0.000020 mg/L	2	2	1.7	1.3	84	64	40-120	26	20 R1
Benzo(b)fluoranthene	ug/L	<0.000020 mg/L	2	2	1.5	1.1	75	55	35-120	31	20 R1
Benzo(g,h,i)perylene	ug/L	<0.000023 mg/L	2	2	1.7	1.3	86	64	41-122	30	20 R1
Benzo(k)fluoranthene	ug/L	<0.000022 mg/L	2	2	1.8	1.3	91	65	45-124	34	20 R1
Chrysene	ug/L	<0.000027 mg/L	2	2	2.0	1.5	99	74	48-139	30	20 R1
Dibenz(a,h)anthracene	ug/L	<0.000018 mg/L	2	2	1.8	1.3	88	66	42-125	29	20 R1
Fluoranthene	ug/L	<0.000026 mg/L	2	2	1.8	1.3	87	63	43-121	32	20 R1
Fluorene	ug/L	<0.000024 mg/L	2	2	1.7	1.2	83	60	65-120	32	20 M1,R1
Indeno(1,2,3-cd)pyrene	ug/L	<0.000016 mg/L	2	2	1.7	1.2	84	62	39-120	31	20 R1
Naphthalene	ug/L	0.000071 mg/L	2	2	1.4	1.1	69	51	57-120	27	20 M1,R1
Phenanthrene	ug/L	<0.000026 mg/L	2	2	1.6	1.1	78	55	64-120	35	20 M1,R1
Pyrene	ug/L	<0.000023 mg/L	2	2	1.7	1.2	85	61	64-120	33	20 M1,R1
2-Fluorobiphenyl (S)	%						63	43	10-113		
Terphenyl-d14 (S)	%						75	54	28-124		

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QUALIFIERS

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40238726

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238726001	122121001	EPA 3010A	405198	EPA 6020B	405275
40238726002	122121002	EPA 3010A	405198	EPA 6020B	405275
40238726001	122121001	EPA 7470	405422	EPA 7470	405453
40238726002	122121002	EPA 7470	405422	EPA 7470	405453
40238726001	122121001	EPA 3510	404944	EPA 8270E by SIM	404963
40238726002	122121002	EPA 3510	404944	EPA 8270E by SIM	404963
40238726001	122121001	EPA 8260	405043		
40238726002	122121002	EPA 8260	405043		
40238726003	122121003	EPA 8260	405043		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: RAMBOLL
 Branch/Location: MILWAUKEE
 Project Contact: STACE GOETZ
 Phone: 414-385-3563
 Project Number: 1940101253
 Project Name: GREEN BAY FARMER MGP
 Project State: WI
 Sampled By (Print): DAN VACHON
 Sampled By (Sign): [Signature]
 PO #: _____ Regulatory Program: _____

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analyses Requested	Matrix Codes		
			DATE	TIME	MATRIX
N	B	PIGCS	12/21/21	1435	W
N	A	PAHS	12/21/21	1440	W
N	D	METALS	-	-	W

Quote #: _____
 Mail To Contact: ACCOUNTS PAYABLE
 Mail To Company: HEC BUSINESS SERVICES, LLC
 Mail To Address: PO Box 19800
GREEN BAY, WI 54301
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: SAME ↓
 Invoice To Phone: _____

Data Package Options
 EPA Level III
 EPA Level IV


MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		
		DATE	TIME	MATRIX
	122121001	12/21/21	1435	W
	122121002	12/21/21	1440	W
	122121003	-	-	W

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
		001
		002
		003

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: <u>STANDARD</u>	Relinquished By: <u>[Signature]</u> Date/Time: <u>12/22/21 @ 1021</u>	Received By: <u>[Signature]</u> Date/Time: <u>12/22/21 1021</u>	PACE Project No. <u>40238726</u>
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Receipt Temp = <u>2</u> °C
Email #1: <u>GDSDATA@RAMBOLL.COM</u>	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH <u>(OK)</u> / Adjusted
Email #2: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody Seal Present / Not Present
Telephone: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Intact / Not Intact
Fax: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Ramboll

Project #: _____

WO# : 40238726

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - 107 Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2° ICorr: 2°

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
Date: <u>12/22/21</u> Initials: <u>[Signature]</u>
Labeled By Initials: <u>[Signature]</u>

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>475</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir