

**From:** Dombrowski, Frank J <frank.dombrowski@wecenergygroup.com>  
**Sent:** Monday, November 15, 2021 1:35 PM  
**To:** Werner, Leah  
**Cc:** Krueger, Sarah E - DNR; DNR RR NER; Korpela, Adrienne/MKE; 'staci.goetz@ramboll.com'  
**Subject:** WPSC Former Green Bay Former MGP - Oct. 2021 Monthly Progress Report (CERCLA Docket No. V-W-06-C-847)  
**Attachments:** 2021-11-15 WPSC-USEPA October 2021 WPSC Green Bay Monthly Progress Report.pdf

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Leah,

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

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

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*



Wisconsin Public Service Corporation

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Green Bay, WI 54307-9001

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November 15, 2021

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

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

Dear Ms. 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 September 2021 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by October 15, 2021.
- Ramboll, on behalf of WPSC, collected a sheen sample from the East River on October 5, 2021. Sample collection location was upstream of previously remediated river channel areas in OU2.
- Performed weekly sheen observation monitoring.
- Conducted Site Overview Meeting for October 5, 2021 for USEPA project manager transition.

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

- Analytical results from a sheen sample (and sheen blank) collected October 5, 2021 have been received and are undergoing validation. Results will be included in November's monthly progress report.
- Validated sediment and surface water results collected September 1-2, 2021.

**3) PROJECTED WORK**

**WPSC Actions**

- Submit monthly progress report to USEPA by the 15<sup>th</sup> of the month.
- Provide periodic field updates.
- Continue to evaluate pre-design investigation (PDI) information for the northern portion of the upland Operable Unit (OU). Incorporate PDI data into a PDI Data Summary Report.

Wisconsin Public Service Corporation | A subsidiary of the WEC Energy Group

- Respond to comments on the Letter of Intent (LOI) for the upland OU and incorporate comments into a Remedial Action Work Plan or an RI Report Revision 0.
- Prepare to receive comments on Sediment OU RI Report, Revision 1.

**USEPA Actions**

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

**4) PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED**

- None.

**5) ACTUAL OR PLANNED RESOLUTION OF PROBLEMS OR POTENTIAL PROBLEMS**

- None.

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

Sincerely,



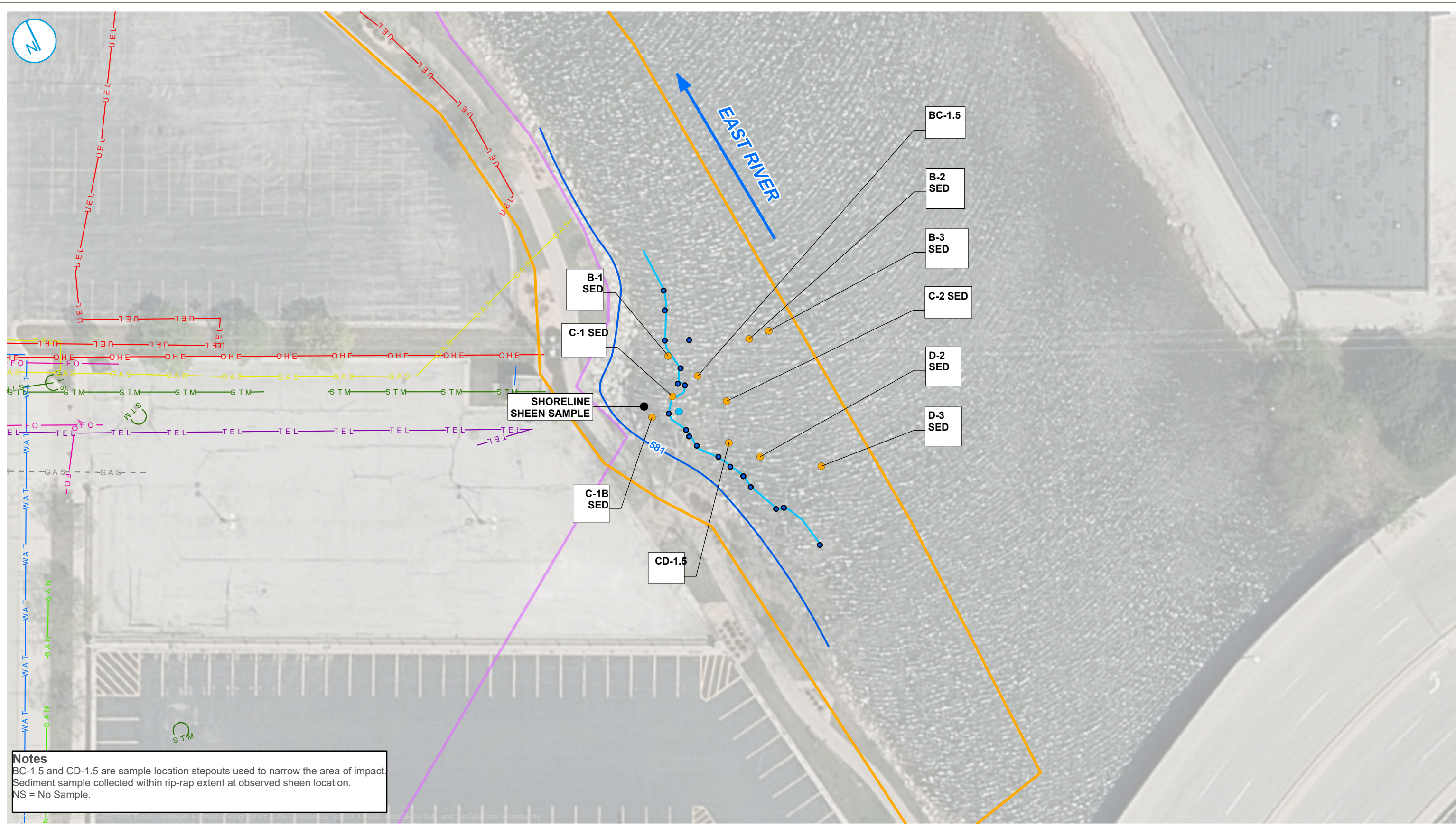
Frank Dombrowski  
Principal Environmental Consultant  
WEC Business Services – Environmental Dept.

Enclosures:                      Figure 1. Sediment and Surface Water Sample Location Map  
    Table 1. September 2021 Pace Labs Sediment Analytical Results Compared to Risk Assessment Framework SLs  
    Table 2. September 2021 Alpha Labs Sediment Analytical Results  
    Table 3. September 2021 Surface Water Sample Results Summary  
    [Green Bay October 2021 MPR SharePoint Link](#)

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

## FIGURES





- UPLAND SITE BOUNDARY
- FORMER MGP SITE
- WALKED AND PHOTOGRAPHED AREA
- UTILITIES
- 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

- ELEVATION CONTOURS**
- RIP RAP CONTOUR (FT)
  - SHORELINE ELEVATION CONTOUR (FT)
- SAMPLING LOCATIONS**
- SEDIMENT LOCATIONS
  - SURVEY LOCATIONS
  - SHORELINE SHEEN
  - SURFACE WATER LOCATION



**SUPPLEMENTAL SEDIMENT SAMPLING LOCATIONS  
 SEPTEMBER 1-2, 2021**

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

**FIGURE 1**



## **TABLES**



**Table 1. September 2021 Pace Labs Sediment Analytical Results Compared to Risk Assessment Framework SLs**

October 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 Depth (feet BGS)	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PVOC	PVOC	PVOC	PVOC	PVOC	PVOC
				TPAH(13) <sup>1</sup>	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	2-Methylnaphthalene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene
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
				Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
<i>MGP Sediment Ecological Benchmark SL:</i>				1.61		100,000		100,000		100,000		NS		100,000		100,000		100,000		100,000		NS		100,000	
<i>MGP Selected Soil, Residential SL, WI:</i>				NS		3,600		3,600		18,000		1.1		0.11		1.1		11		110		2,400		2,400	
090221005	B-3	0 - 0.5	09/02/2021	11.8897		0.0888	U	0.345	J	0.322	J	1.120		1.220		1.520	J	0.640	J	1.340		2.240		0.115	J
090221006/090221007 (N)	B-3 (N)	0.5 - 2	09/02/2021	5.3311		0.0876		0.0393		0.123	J	0.331		0.388		0.587	J	0.211	J	0.448	J	1.110	J	0.0919	J
090221013	BC-1.5	0 - 0.5	09/02/2021	876.30		23.100		11.000	J	37.200		56.000		59.100		74.900	J	31.000	J	76.900		167.000		24.800	
090221011	C-1	0 - 0.5	09/02/2021	34.613		0.468	J	0.587	J	1.340		2.750		2.890		3.730	J	1.440	J	3.410		6.800		0.587	J
090221012	C-1	0.5 - 2	09/02/2021	129.581		2.310		0.691	J	4.170		9.620		9.160		13.200	J	4.430	J	11.800		26.700		2.530	
090221008	C-2	0 - 0.5	09/02/2021	23.943		0.146	J	0.743		0.732		2.330		2.280		2.690	J	0.910	J	2.500		4.460		0.300	J
090221009	C-2	0.5 - 2	09/02/2021	9.1811		0.154	J	0.221	J	0.310		0.777		0.760		0.954	J	0.372	J	0.890		1.710		0.203	J
090221014	CD-1.5	0 - 0.5	09/02/2021	25.111		0.248	J	0.557	J	0.862		2.160		2.240		2.820	J	1.100	J	2.600		5.010		0.324	J
090221010	D-2	0 - 0.5	09/02/2021	0.3597		0.0030	U	0.0029	U	0.0077	J	0.0271		0.0318		0.0483	J	0.0202	J	0.0419		0.0823		0.0028	J
090221004	D-3	0 - 0.5	09/02/2021	1.0163		0.0101	J	0.0121	J	0.0204	J	0.0772		0.0850		0.141	J	0.0483	J	0.108		0.215		0.0148	J
090221015/090221016 (N)	Shoreline Sheen (N) <sup>2</sup>	0 - 0.5	09/02/2021	38.886		0.538	J	0.799	J	1.510	J	2.910	J	2.960	J	3.680	J	1.480	J	3.420	J	7.170	J	0.879	J
<b>Total Number of Samples Analyzed:</b>				11		11		11		11		11		11		11		11		11		11		11	
<b>Number of Detections:</b>				11		9		10		11		11		11		11		9		11		11		11	
<b>Min:</b>				0.3597		0.0101		0.0121		0.0077		0.0271		0.0318		0.0483		0.0202		0.0419		0.0823		0.0028	
<b>Max:</b>				876.3		23.1		11		37.2		56		59.1		74.9		31		76.9		167		24.8	
<b>MGP Sediment Ecological Benchmark SL:</b>				1.61		100000		100000		100000		NS		100000		100000		100000		100000		100000		100000	
<b>Number of Samples that Exceed:</b>				9		0		0		0		0		0		0		0		0		0		0	
<b>MGP Selected Soil, Residential SL, WI:</b>				NS		3600		3600		18000		1.1		0.11		1.1		11		110		2400		2400	
<b>Number of Samples that Exceed:</b>				0		0		0		0		7		9		7		1		0		0		0	

*Italic* exceeds the MGP Sediment Ecological Benchmark SL  
Underline exceeds the MGP Selected Soil, Residential SL, WI  
 Pink Highlighting result exceeds one or more screening criteria  
 Yellow Highlighting analyte exceedance in statistics for one or more samples

**Results & Flags:**  
 -- = Analysis not performed  
 J = Estimated concentration  
 NA = Not Applicable  
 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  
 BGS = Below ground surface  
 BRRTS = Bureau for Remediation and Redevelopment Tracking System  
 EPA = Environmental Protection Agency  
 GEO = Geotechnical Property  
 mg/kg = milligrams per kilogram  
 MGP = manufactured gas plant  
 NS = No Screening Level  
 PAH = Polycyclic Aromatic Hydrocarbon  
 PVOC = Petroleum Volatile Organic Compound  
 RSL = Regional Screening Level (USEPA)  
 SL = Screening Level  
 TPAH = Total PAHs  
 USEPA = United States Environmental Protection Agency  
 WI = Wisconsin

**Superscript Notes:**  
 1. Total PAH(13)s were calculated by Ramboll as follows:  
 a. Where no detections were observed, the maximum individual reported detection limit is presented.  
 b. Where detections were observed, calculation used the values of detected results and half the reporting limit of the non-detected results.  
 c. The list of Total PAH (13) is as follows: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Fluorene, Naphthalene, Phenanthrene and Pyrene.  
 2. Sediment sample collected within rip-rap extent at observed sheen location

**Screening Levels:**  
 Screening Levels used on this table were presented in the Multi-Site Risk Assessment Framework (RAF) Addendum Revision 6, issued in August 2017. Since that time, eight revisions of the RSLs have been published by EPA through May 2021. As a result of these eight revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.

Result values/flags may differ from lab report values/flags due to changes applied in third party validation report. Lab comments, additional data qualifiers and definitions can be found in associated laboratory and validation reports.





**Table 2. September 2021 Alpha Labs Sediment Analytical Results**

October 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 Depth (feet BGS)	Sample Date	Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH		Alk PAH																					
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene/Triphenylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2,3,5-Trimethylnaphthalene	2,6-Dimethylnaphthalene	2-Methylnaphthalene	Benzo(e)pyrene	Benzo(g,h,i)perylene	Biphenyl	C1-Chrysenes	C1-Dibenzothiophene	C1-Fluoranthenes/Pyrenes	C1-Fluorenes	C1-Naphthalenes	C1-Phenanthrenes/Anthracenes																										
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	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																				
090221011	C-1	0 - 0.5	09/02/2021	9.640		15.600		25.700		32.800		32.000		23.800		20.000		32.000		59.000		13.100		9.700		84.600		58.600		11.900		1,880		8,810		15.100		17.800		17.700		2.680		18.400		10.500		44.600		10.000		16.600		54.400	
090221015/090221016 (N)	Shoreline Sheen (N) <sup>2</sup>	0 - 0.5	09/02/2021	8.570	J	7.310	J	14.900	J	23.300	J	25.100	J	22.000	J	16.100	J	24.400	J	47.700	J	10.500	J	20.000	J	59.300	J	44.200	J	17.900	J	1,140	J	7,830	J	24.100	J	14.800	J	16.700	J	3.370	J	11.700	J	5.450	J	27.900	J	5.340	J	25.900	J	26.500	J

**Results & Flags:**  
 J = Estimated concentration  
 U = Concentration was not detected above the reported limit

**Acronyms:**  
 (N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol  
 % = percent  
 µg/kg = micrograms per kilogram  
 Alk PAH = Alkylated PAH  
 BGS = Below ground surface  
 BRRTS = Bureau for Remediation and Redevelopment Tracking System  
 EPA = Environmental Protection Agency  
 GEO = Geotechnical Property  
 mg/kg = milligrams per kilogram  
 PHC = Petroleum Hydrocarbon  
 USEPA = United States Environmental Protection Agency  
 WI = Wisconsin

**Superscript Notes:**  
 1. Sediment sample collected within rip-rap extent at observed sheen location

Result values/flags may differ from lab report values/flags due to changes applied in third party validation report.  
 Lab comments, additional data qualifiers and definitions can be found in associated laboratory and validation reports.

**Table 2. September 2021 Alpha Labs Sediment Analytical Results**

October 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 Depth (feet BGS)	Sample Date	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	GEO	PHCs (Fuel)																											
				C2-Chrysenes	C2-Dibenzothiophene	C2-Fluoranthrenes/Pyrenes	C2-Fluorenes	C2-Naphthalenes	C2-Phenanthrenes/Anthracenes	C3-Chrysenes	C3-Dibenzothiophene	C3-Fluoranthrenes/Pyrenes	C3-Fluorenes	C3-Naphthalenes	C3-Phenanthrenes/Anthracenes	C4-Chrysenes	C4-Dibenzothiophene	C4-Fluoranthrenes/Pyrenes	C4-Naphthalenes	C4-Phenanthrenes/Anthracenes	Dibenz(a,h)-anthracene	Dibenzofuran	Dibenzothiophene	Indeno(1,2,3-cd)pyrene	Perylene	Retene	Solids, Total	Total Petroleum Hydrocarbons (C9-C44)																									
				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	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg																								
Reporting Units:				Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag																										
090221011	C-1	0 - 0.5	09/02/2021	7.420		8.200		14.700		6.680		18.700		21.500		3.940		2.930		4.600		3.860		10.500		5.820		2.240		0.875		2,380		3.060		1.380		5.590		4.510		8.350		18.100		6.570		0.223	U	42.4		2,920	
090221015/090221016 (N)	Shoreline Sheen (N) <sup>2</sup>	0 - 0.5	09/02/2021	4.970	J	3.950	J	10.200	J	3.160	J	16.400	J	11.400	J	2.920	J	1.610	J	3.160	J	2.690	J	5.960	J	3.360	J	1.050	J	0.441	J	2,010	J	1.580	J	0.799	J	5.260	J	4.430	J	5.220	J	17.000	J	5.660	J	0.0166	U	46.1		2,540	

[O:CMD 10/4/21, U:CMD 10/29/21, C:LDH 11/1/21]

**Results & Flags:**

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 U = Concentration was not detected above the reported limit

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**Superscript Notes:**

1. Sediment sample collected within rip-rap extent at observed sheen location

Result values/flags may differ from lab report values/flags due to changes applied in third party validation report.  
 Lab comments, additional data qualifiers and definitions can be found in associated laboratory and validation reports.

**Table 3. September 2021 Surface Water Sample Results Summary**

September 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			PAH			PAH			PAH			PAH			PAH			PAH			PAH																		
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trimethylbenzene, Total <sup>1</sup>	Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	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																										
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L																						
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag																						
<b>MGP Surface Water Ecological SLs:</b>			<i>NS</i>	<i>NS</i>	<i>NS</i>	<b>114</b>	<b>14</b>	<b>253</b>	<i>NS</i>	<i>NS</i>	<b>27</b>	<b>330</b>	<b>38</b>	<b>4840</b>	<b>0.035</b>	<b>0.025</b>	<b>0.014</b>	<b>9.070</b>	<b>7.640</b>	<i>NS</i>	<i>NS</i>	<b>5</b>	<i>NS</i>	<b>19</b>	<i>NS</i>	<b>13</b>	<i>NS</i>	<b>0.300</b>																										
<b>WI Groundwater ES:</b>			<i>NS</i>	<i>NS</i>	<b>480</b>	<b>5</b>	<b>700</b>	<b>800</b>	<i>NS</i>	<i>NS</i>	<b>2000</b>	<i>NS</i>	<i>NS</i>	<i>NS</i>	<b>3000</b>	<i>NS</i>	<b>0.2</b>	<b>0.2</b>	<i>NS</i>	<i>NS</i>	<b>0.2</b>	<i>NS</i>	<b>400</b>	<b>400</b>	<i>NS</i>	<b>100</b>	<i>NS</i>	<b>250</b>																										
<b>USEPA MCL:</b>			<i>NS</i>	<i>NS</i>	<i>NS</i>	<b>5</b>	<b>700</b>	<b>1000</b>	<i>NS</i>	<i>NS</i>	<b>10000</b>	<i>NS</i>	<i>NS</i>	<i>NS</i>	<b>0.2</b>	<i>NS</i>	<b>0.25</b>	<b>NS</b>	<i>NS</i>	<i>NS</i>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>																											
<b>WI Tap Water RSL:</b>			56	60	<i>NS</i>	0.46000001	1.5	1100	190	190	190	36	530	530	1800	<i>NS</i>	0.025	0.25	120	2.5	25	0.025	800	290	0.25	<i>NS</i>	1800	120																										
090121001/090121002 (N)	SW-1 (N)	09/01/2021	0.45	U	0.36	U	0.81	U	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.032	J	0.012	U	0.011	U	0.017	U	0.012	U	0.018	U	0.017	U	0.021	U	0.020	U	0.024	U	0.016	U	0.023	U	0.021	U	0.014	U	0.076	U	0.023	U	0.020	U

<b>Underline</b>	exceeds the MGP Selected Surface Water, Ecological SLs
<b>Bold</b>	attains or exceeds the WI Groundwater ES
<b>Blue Font</b>	exceeds the USEPA MCL
<b>Italic</b>	exceeds the WI Tap Water RSL
<b>Pink Highlighting</b>	result exceeds one or more screening criteria

**Results & Flags:**  
 J = Estimated concentration  
 U = Concentration was not detected above the reported limit

**Acronyms:**  
 (N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol  
 µg/L = micrograms per liter  
 BRRTS = Bureau for Remediation and Redevelopment Tracking System  
 EPA = Environmental Protection Agency  
 ES = Enforcement Standard  
 GEO = Geotechnical Property  
 MCL = Maximum Contaminant Level  
 MGP = manufactured gas plant  
 NS = No Screening Level/No Standard  
 PAH = Polycyclic Aromatic Hydrocarbon  
 PVOC = Petroleum Volatile Organic Compound  
 RSL = Regional Screening Level (USEPA)  
 SL = Screening Level  
 USEPA = United States Environmental Protection Agency  
 WI = Wisconsin

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

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

**Table 3. September 2021 Surface Water Sample Results Summary**

September 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															
			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																
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L															
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag														
<b>MGP Surface Water Ecological SLs:</b>			<u>87</u>		<u>80</u>		<u>150</u>		<u>220</u>		<u>0.25</u>		<u>74</u>		<u>9</u>		<u>1000</u>		<u>2.5</u>		<u>NS</u>		<u>NS</u>		<u>52</u>		<u>5</u>		<u>NS</u>		<u>12</u>		<u>120</u>	
<b>WI Groundwater ES:</b>			<b>200</b>		<b>6</b>		<b>10</b>		<b>2000</b>		<b>5</b>		<b>NS</b>		<b>1300</b>		<b>300</b>		<b>15</b>		<b>300</b>		<b>2</b>		<b>100</b>		<b>50</b>		<b>NS</b>		<b>30</b>		<b>5000</b>	
<b>USEPA MCL:</b>			<i>NS</i>		<i>6</i>		<i>10</i>		<i>2000</i>		<i>5</i>		<i>100</i>		<i>1300</i>		<i>NS</i>		<i>15</i>		<i>NS</i>		<i>2</i>		<i>NS</i>		<i>50</i>		<i>NS</i>		<i>NS</i>		<i>NS</i>	
<b>WI Tap Water RSL:</b>			<i>20000</i>		<i>7.80</i>		<i>0.052</i>		<i>3800</i>		<i>NS</i>		<i>22000</i>		<i>800</i>		<i>14000</i>		<i>15</i>		<i>430</i>		<i>NS</i>		<i>390</i>		<i>100</i>		<i>94</i>		<i>86</i>		<i>6000</i>	
090121001/090121002 (N)	SW-1 (N)	09/01/2021	<b>886</b>		0.28	J	<b>1.6</b>		30.7		0.15	J	1.7	J	6.7		<b>1,100</b>		0.81	J	74.2		0.066	U	2.6		0.57	J	0.13	U	4.7		12.0	J

[O:CMD 10/5/21; C:LDH 10/11/21]

<b>Underline</b>	exceeds the MGP Selected Surface Water, Ecological SLs
<b>Bold</b>	attains or exceeds the WI Groundwater ES
<b>Blue Font</b>	exceeds the USEPA MCL
<b>Italic</b>	exceeds the WI Tap Water RSL
<b>Pink Highlighting</b>	result exceeds one or more screening criteria

**Results & Flags:**  
 J = Estimated concentration  
 U = Concentration was not detected above the reported limit

**Acronyms:**  
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 BRRTS = Bureau for Remediation and Redevelopment Tracking System  
 EPA = Environmental Protection Agency  
 ES = Enforcement Standard  
 GEO = Geotechnical Property  
 MCL = Maximum Contaminant Level  
 MGP = manufactured gas plant  
 NS = No Screening Level/No Standard  
 PAH = Polycyclic Aromatic Hydrocarbon  
 PVOC = Petroleum Volatile Organic Compound  
 RSL = Regional Screening Level (USEPA)  
 SL = Screening Level  
 USEPA = United States Environmental Protection Agency  
 WI = Wisconsin

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

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





## **ANALYTICAL LABORATORY REPORTS**

September 20, 2021

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.: 40232753

Dear Staci Goetz:

Enclosed are the analytical results for sample(s) received by the laboratory on September 03, 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, OBG  
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.: 40232753

---

### **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.: 40232753

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40232753001	090221004	Solid	09/02/21 09:40	09/03/21 11:52
40232753002	090221005	Solid	09/02/21 10:35	09/03/21 11:52
40232753003	090221006	Solid	09/02/21 10:37	09/03/21 11:52
40232753004	090221007	Solid	09/02/21 10:42	09/03/21 11:52
40232753005	090221008	Solid	09/02/21 11:15	09/03/21 11:52
40232753006	090221009	Solid	09/02/21 11:20	09/03/21 11:52
40232753007	090221010	Solid	09/02/21 11:45	09/03/21 11:52
40232753008	090221011	Solid	09/02/21 13:20	09/03/21 11:52
40232753009	090221012	Solid	09/02/21 13:25	09/03/21 11:52
40232753010	090221013	Solid	09/02/21 14:40	09/03/21 11:52
40232753011	090221014	Solid	09/02/21 15:00	09/03/21 11:52
40232753012	090221015	Solid	09/02/21 16:40	09/03/21 11:52
40232753013	090221016	Solid	09/02/21 16:45	09/03/21 11:52

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40232753001	090221004	EPA 6020B	DS1	15
		EPA 7471	AJT	1
		EPA 8270E	RJN	10
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
40232753002	090221005	ASTM D2974-87	AH	1
		EPA 6020B	DS1	15
		EPA 7471	AJT	1
		EPA 8270E	RJN	10
		EPA 8270E by SIM	RJN	19
40232753003	090221006	EPA 8260	ALD	11
		ASTM D2974-87	AH	1
		EPA 6020B	DS1	15
		EPA 7471	AJT	1
		EPA 8270E	RJN	10
40232753004	090221007	EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		ASTM D2974-87	AH	1
		EPA 6020B	DS1	15
		EPA 7471	AJT	1
40232753005	090221008	EPA 8270E	RJN	7
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		EPA 6020B	DS1	15
		EPA 7471	AJT	1
40232753006	090221009	EPA 8270E	RJN	7
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		EPA 6020B	DS1, KXS	15
		EPA 7471	AJT	1
40232753007	090221010	ASTM D2974-87	AH	1
		EPA 8270E	RJN	7
		EPA 6020B	DS1	15

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7471	AJT	1
		EPA 8270E	RJN	7
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		ASTM D2974-87	AH	1
<b>40232753008</b>	<b>090221011</b>	EPA 6020B	DS1	15
		EPA 7471	AJT	1
		EPA 8270E	RJN	7
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		ASTM D2974-87	AH	1
<b>40232753009</b>	<b>090221012</b>	EPA 6020B	DS1	15
		EPA 7471	AJT	1
		EPA 8270E	RJN	7
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		ASTM D2974-87	AH	1
<b>40232753010</b>	<b>090221013</b>	EPA 6020B	DS1	15
		EPA 7471	AJT	1
		EPA 8270E	RJN	7
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		ASTM D2974-87	AH	1
<b>40232753011</b>	<b>090221014</b>	EPA 6020B	DS1	15
		EPA 7471	AJT	1
		EPA 8270E	RJN	7
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		ASTM D2974-87	AH	1
<b>40232753012</b>	<b>090221015</b>	EPA 6020B	DS1	15
		EPA 7471	AJT	1
		EPA 8270E	RJN	7
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		ASTM D2974-87	AH	1
<b>40232753013</b>	<b>090221016</b>	EPA 6020B	DS1	15
		EPA 7471	AJT	1

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270E	RJN	7
		EPA 8270E by SIM	RJN	19
		EPA 8260	ALD	11
		ASTM D2974-87	AH	1

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.: 40232753

---

**Method:** EPA 6020B

**Description:** 6020B MET ICPMS

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

**Date:** September 20, 2021

### General Information:

13 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 3050B 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.

QC Batch: 394941

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40232753006

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2279003)
  - Copper
- MSD (Lab ID: 2279004)
  - Barium
  - Manganese

R1: RPD value was outside control limits.

- MS (Lab ID: 2279003)
  - Barium
  - Lead
  - Zinc
- MSD (Lab ID: 2279004)
  - Barium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

---

**Method:** EPA 6020B  
**Description:** 6020B MET ICPMS  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** September 20, 2021

QC Batch: 394941

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40232753006

R1: RPD value was outside control limits.

- Lead
- Zinc

### Additional Comments:

Analyte Comments:

QC Batch: 394941

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

- 090221004 (Lab ID: 40232753001)
  - Silver
  - Cadmium
  - Antimony
- 090221005 (Lab ID: 40232753002)
  - Silver
  - Cadmium
  - Antimony
  - Selenium
- 090221006 (Lab ID: 40232753003)
  - Silver
  - Cadmium
  - Antimony
- 090221007 (Lab ID: 40232753004)
  - Silver
  - Cadmium
  - Antimony
- 090221008 (Lab ID: 40232753005)
  - Silver
  - Cadmium
  - Antimony
- 090221009 (Lab ID: 40232753006)
  - Cadmium
  - Antimony
- 090221010 (Lab ID: 40232753007)
  - Silver
  - Cadmium
  - Antimony
- 090221011 (Lab ID: 40232753008)
  - Silver
  - Cadmium
  - Antimony
  - Selenium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

---

**Method:** EPA 6020B

**Description:** 6020B MET ICPMS

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

**Date:** September 20, 2021

Analyte Comments:

QC Batch: 394941

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

- 090221012 (Lab ID: 40232753009)
  - Silver
  - Cadmium
  - Antimony
  - Selenium
- 090221013 (Lab ID: 40232753010)
  - Silver
  - Antimony
  - Selenium
- 090221014 (Lab ID: 40232753011)
  - Silver
  - Cadmium
  - Antimony
  - Selenium
- 090221015 (Lab ID: 40232753012)
  - Silver
  - Cadmium
  - Antimony
  - Selenium
- 090221016 (Lab ID: 40232753013)
  - Silver
  - Cadmium
  - Antimony
  - Selenium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

---

**Method:** EPA 7471

**Description:** 7471 Mercury

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

**Date:** September 20, 2021

**General Information:**

13 samples were analyzed for EPA 7471 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 7471 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.: 40232753

---

**Method:** EPA 8270E  
**Description:** 8270E MSSV FULL LIST MICROWAVE  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** September 20, 2021

### General Information:

13 samples were analyzed for EPA 8270E 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 3546 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.

QC Batch: 395215

S0: Surrogate recovery outside laboratory control limits.

- LCS (Lab ID: 2280112)
  - Nitrobenzene-d5 (S)
- MSD (Lab ID: 2280114)
  - Nitrobenzene-d5 (S)

QC Batch: 395601

S0: Surrogate recovery outside laboratory control limits.

- LCS (Lab ID: 2282349)
  - Nitrobenzene-d5 (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 090221013 (Lab ID: 40232753010)
  - 2,4,6-Tribromophenol (S)
  - 2-Fluorophenol (S)
  - Phenol-d6 (S)

### Method Blank:

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

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

---

**Method:** EPA 8270E  
**Description:** 8270E MSSV FULL LIST MICROWAVE  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** September 20, 2021

### 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: 395215

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

- 090221005 (Lab ID: 40232753002)
- Phenol

QC Batch: 395433

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

- 090221008 (Lab ID: 40232753005)
- Phenol

QC Batch: 395601

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

- 090221009 (Lab ID: 40232753006)
- Phenol
- 090221011 (Lab ID: 40232753008)
- Phenol
- 090221012 (Lab ID: 40232753009)
- Phenol
- 090221013 (Lab ID: 40232753010)
- Phenol
- 090221014 (Lab ID: 40232753011)
- Phenol
- 090221015 (Lab ID: 40232753012)
- Phenol
- 090221016 (Lab ID: 40232753013)
- Phenol

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

---

**Method:** EPA 8270E by SIM  
**Description:** 8270E MSSV PAH by SIM  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** September 20, 2021

### General Information:

13 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 3546 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.

QC Batch: 395432

S0: Surrogate recovery outside laboratory control limits.

- 090221009 (Lab ID: 40232753006)
  - Terphenyl-d14 (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- BLANK (Lab ID: 2281930)
  - Terphenyl-d14 (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 090221005 (Lab ID: 40232753002)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

QC Batch: 395602

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- BLANK (Lab ID: 2282352)
  - Terphenyl-d14 (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 090221013 (Lab ID: 40232753010)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- 090221014 (Lab ID: 40232753011)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

---

**Method:** EPA 8270E by SIM

**Description:** 8270E MSSV PAH by SIM

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

**Date:** September 20, 2021

QC Batch: 395602

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 2-Fluorobiphenyl (S)
- Terphenyl-d14 (S)
- 090221016 (Lab ID: 40232753013)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- MS (Lab ID: 2282354)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- MSD (Lab ID: 2282355)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

**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: 395432

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40232753006

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

- MS (Lab ID: 2281932)
  - Acenaphthene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Fluoranthene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- MSD (Lab ID: 2281933)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

---

**Method:** EPA 8270E by SIM

**Description:** 8270E MSSV PAH by SIM

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

**Date:** September 20, 2021

QC Batch: 395432

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40232753006

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

- Fluoranthene
- Pyrene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2281933)
  - 2-Methylnaphthalene
  - Acenaphthene
  - 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

QC Batch: 395602

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40232753012

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

- MS (Lab ID: 2282354)
  - 2-Methylnaphthalene
  - Acenaphthylene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Fluoranthene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- MSD (Lab ID: 2282355)
  - 2-Methylnaphthalene
  - Acenaphthene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

---

**Method:** EPA 8270E by SIM

**Description:** 8270E MSSV PAH by SIM

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

**Date:** September 20, 2021

QC Batch: 395602

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40232753012

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

- Acenaphthylene
- Anthracene
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(g,h,i)perylene
- Benzo(k)fluoranthene
- Chrysene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-cd)pyrene
- Naphthalene
- Phenanthrene
- Pyrene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2282355)
  - 2-Methylnaphthalene
  - Acenaphthene

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

---

**Method:** EPA 8260  
**Description:** 8260 MSV Med Level Short List  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** September 20, 2021

### General Information:

13 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.

### Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B 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.

QC Batch: 395368

S1: Surrogate recovery outside laboratory control limits (confirmed by re-analysis).

- 090221015 (Lab ID: 40232753012)
  - 1,2-Dichlorobenzene-d4 (S)
  - 4-Bromofluorobenzene (S)
  - Toluene-d8 (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- 090221014 (Lab ID: 40232753011)
  - 1,2-Dichlorobenzene-d4 (S)
  - 4-Bromofluorobenzene (S)
  - Toluene-d8 (S)

### 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.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

---

**Method:** EPA 8260

**Description:** 8260 MSV Med Level Short List

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

**Date:** September 20, 2021

QC Batch: 395077

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40232753006

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

- MS (Lab ID: 2279480)
  - Ethylbenzene
  - Toluene
- MSD (Lab ID: 2279481)
  - Ethylbenzene
  - Toluene

**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.: 40232753

**Sample: 090221004**      **Lab ID: 40232753001**      Collected: 09/02/21 09:40      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Aluminum	<b>13600</b>	mg/kg	369	111	6.667	09/08/21 06:39	09/14/21 11:54	7429-90-5	
Antimony	<b>0.36J</b>	mg/kg	0.94	0.23	6.667	09/08/21 06:39	09/14/21 11:54	7440-36-0	D3
Arsenic	<b>3.3</b>	mg/kg	1.2	0.37	6.667	09/08/21 06:39	09/14/21 11:54	7440-38-2	
Barium	<b>78.7</b>	mg/kg	1.2	0.37	6.667	09/08/21 06:39	09/14/21 11:54	7440-39-3	
Cadmium	<b>0.42J</b>	mg/kg	0.94	0.14	6.667	09/08/21 06:39	09/14/21 11:54	7440-43-9	D3
Chromium	<b>27.5</b>	mg/kg	2.8	0.85	6.667	09/08/21 06:39	09/14/21 11:54	7440-47-3	
Copper	<b>86.6</b>	mg/kg	2.5	0.75	6.667	09/08/21 06:39	09/14/21 11:54	7440-50-8	
Iron	<b>23700</b>	mg/kg	234	68.3	6.667	09/08/21 06:39	09/14/21 11:54	7439-89-6	
Lead	<b>208</b>	mg/kg	0.94	0.25	6.667	09/08/21 06:39	09/14/21 11:54	7439-92-1	
Manganese	<b>442</b>	mg/kg	2.6	0.77	6.667	09/08/21 06:39	09/14/21 11:54	7439-96-5	
Nickel	<b>24.2</b>	mg/kg	1.2	0.37	6.667	09/08/21 06:39	09/14/21 11:54	7440-02-0	
Selenium	<b>1.3</b>	mg/kg	0.94	0.26	6.667	09/08/21 06:39	09/14/21 11:54	7782-49-2	
Silver	<b>&lt;0.13</b>	mg/kg	0.47	0.13	6.667	09/08/21 06:39	09/14/21 11:54	7440-22-4	D3
Vanadium	<b>33.2</b>	mg/kg	1.2	0.36	6.667	09/08/21 06:39	09/14/21 11:54	7440-62-2	
Zinc	<b>235</b>	mg/kg	32.6	9.8	6.667	09/08/21 06:39	09/14/21 11:54	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<b>0.035J</b>	mg/kg	0.045	0.013	1	09/16/21 09:11	09/17/21 08:26	7439-97-6	
<b>8270E MSSV FULL LIST MICROWAVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
2,4-Dimethylphenol	<b>&lt;46.7</b>	ug/kg	156	46.7	1	09/09/21 12:53	09/13/21 13:15	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;42.9</b>	ug/kg	143	42.9	1	09/09/21 12:53	09/13/21 13:15	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;43.3</b>	ug/kg	144	43.3	1	09/09/21 12:53	09/13/21 13:15		
Phenol	<b>&lt;56.0</b>	ug/kg	187	56.0	1	09/09/21 12:53	09/13/21 13:15	108-95-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	79	%	40-96		1	09/09/21 12:53	09/13/21 13:15	4165-60-0	
2-Fluorobiphenyl (S)	72	%	14-110		1	09/09/21 12:53	09/13/21 13:15	321-60-8	
Terphenyl-d14 (S)	80	%	10-121		1	09/09/21 12:53	09/13/21 13:15	1718-51-0	
Phenol-d6 (S)	76	%	14-104		1	09/09/21 12:53	09/13/21 13:15	13127-88-3	
2-Fluorophenol (S)	74	%	10-112		1	09/09/21 12:53	09/13/21 13:15	367-12-4	
2,4,6-Tribromophenol (S)	76	%	10-128		1	09/09/21 12:53	09/13/21 13:15	118-79-6	
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>10.1J</b>	ug/kg	23.6	3.1	1	09/13/21 08:00	09/13/21 12:20	83-32-9	
Acenaphthylene	<b>12.1J</b>	ug/kg	23.6	3.0	1	09/13/21 08:00	09/13/21 12:20	208-96-8	
Anthracene	<b>20.4J</b>	ug/kg	23.6	2.9	1	09/13/21 08:00	09/13/21 12:20	120-12-7	
Benzo(a)anthracene	<b>77.2</b>	ug/kg	23.6	3.1	1	09/13/21 08:00	09/13/21 12:20	56-55-3	
Benzo(a)pyrene	<b>85.0</b>	ug/kg	23.6	2.7	1	09/13/21 08:00	09/13/21 12:20	50-32-8	
Benzo(b)fluoranthene	<b>141</b>	ug/kg	23.6	3.3	1	09/13/21 08:00	09/13/21 12:20	205-99-2	
Benzo(g,h,i)perylene	<b>75.3</b>	ug/kg	23.6	4.1	1	09/13/21 08:00	09/13/21 12:20	191-24-2	
Benzo(k)fluoranthene	<b>48.3</b>	ug/kg	23.6	3.0	1	09/13/21 08:00	09/13/21 12:20	207-08-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221004**      **Lab ID: 40232753001**      Collected: 09/02/21 09:40      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Chrysene	<b>108</b>	ug/kg	23.6	4.5	1	09/13/21 08:00	09/13/21 12:20	218-01-9	
Dibenz(a,h)anthracene	<b>16.5J</b>	ug/kg	23.6	3.3	1	09/13/21 08:00	09/13/21 12:20	53-70-3	
Fluoranthene	<b>215</b>	ug/kg	23.6	2.8	1	09/13/21 08:00	09/13/21 12:20	206-44-0	
Fluorene	<b>14.8J</b>	ug/kg	23.6	2.8	1	09/13/21 08:00	09/13/21 12:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>60.6</b>	ug/kg	23.6	4.9	1	09/13/21 08:00	09/13/21 12:20	193-39-5	
2-Methylnaphthalene	<b>8.2J</b>	ug/kg	23.6	3.5	1	09/13/21 08:00	09/13/21 12:20	91-57-6	
Naphthalene	<b>18.4J</b>	ug/kg	23.6	2.3	1	09/13/21 08:00	09/13/21 12:20	91-20-3	
Phenanthrene	<b>103</b>	ug/kg	23.6	2.7	1	09/13/21 08:00	09/13/21 12:20	85-01-8	
Pyrene	<b>163</b>	ug/kg	23.6	3.5	1	09/13/21 08:00	09/13/21 12:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	36-86		1	09/13/21 08:00	09/13/21 12:20	321-60-8	
Terphenyl-d14 (S)	52	%	41-97		1	09/13/21 08:00	09/13/21 12:20	1718-51-0	

**8260 MSV Med Level Short List**

Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B

Pace Analytical Services - Green Bay

Benzene	<b>&lt;21.8</b>	ug/kg	36.6	21.8	1	09/08/21 08:15	09/08/21 16:48	71-43-2	
Ethylbenzene	<b>&lt;21.8</b>	ug/kg	91.6	21.8	1	09/08/21 08:15	09/08/21 16:48	100-41-4	
Toluene	<b>&lt;23.1</b>	ug/kg	91.6	23.1	1	09/08/21 08:15	09/08/21 16:48	108-88-3	
1,2,4-Trimethylbenzene	<b>&lt;27.3</b>	ug/kg	91.6	27.3	1	09/08/21 08:15	09/08/21 16:48	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;29.5</b>	ug/kg	91.6	29.5	1	09/08/21 08:15	09/08/21 16:48	108-67-8	
Xylene (Total)	<b>&lt;66.1</b>	ug/kg	275	66.1	1	09/08/21 08:15	09/08/21 16:48	1330-20-7	
m&p-Xylene	<b>&lt;38.7</b>	ug/kg	183	38.7	1	09/08/21 08:15	09/08/21 16:48	179601-23-1	
o-Xylene	<b>&lt;27.5</b>	ug/kg	91.6	27.5	1	09/08/21 08:15	09/08/21 16:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	66-153		1	09/08/21 08:15	09/08/21 16:48	460-00-4	
Toluene-d8 (S)	110	%	67-159		1	09/08/21 08:15	09/08/21 16:48	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	117	%	82-158		1	09/08/21 08:15	09/08/21 16:48	2199-69-1	

**Percent Moisture**

Analytical Method: ASTM D2974-87

Pace Analytical Services - Green Bay

Percent Moisture	<b>29.4</b>	%	0.10	0.10	1		09/07/21 14:37		
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**Sample: 090221005**      **Lab ID: 40232753002**      Collected: 09/02/21 10:35      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Aluminum	<b>10100</b>	mg/kg	502	151	6.667	09/08/21 06:39	09/14/21 12:08	7429-90-5	
Antimony	<b>&lt;0.32</b>	mg/kg	1.3	0.32	6.667	09/08/21 06:39	09/14/21 12:08	7440-36-0	D3
Arsenic	<b>3.2</b>	mg/kg	1.7	0.51	6.667	09/08/21 06:39	09/14/21 12:08	7440-38-2	
Barium	<b>54.8</b>	mg/kg	1.7	0.50	6.667	09/08/21 06:39	09/14/21 12:08	7440-39-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

**Sample: 090221005**      **Lab ID: 40232753002**      Collected: 09/02/21 10:35      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Cadmium	<b>0.49J</b>	mg/kg	1.3	0.19	6.667	09/08/21 06:39	09/14/21 12:08	7440-43-9	D3
Chromium	<b>30.5</b>	mg/kg	3.9	1.2	6.667	09/08/21 06:39	09/14/21 12:08	7440-47-3	
Copper	<b>35.1</b>	mg/kg	3.4	1.0	6.667	09/08/21 06:39	09/14/21 12:08	7440-50-8	
Iron	<b>16700</b>	mg/kg	319	93.1	6.667	09/08/21 06:39	09/14/21 12:08	7439-89-6	
Lead	<b>43.4</b>	mg/kg	1.3	0.35	6.667	09/08/21 06:39	09/14/21 12:08	7439-92-1	
Manganese	<b>343</b>	mg/kg	3.5	1.1	6.667	09/08/21 06:39	09/14/21 12:08	7439-96-5	
Nickel	<b>15.1</b>	mg/kg	1.7	0.50	6.667	09/08/21 06:39	09/14/21 12:08	7440-02-0	
Selenium	<b>1.0J</b>	mg/kg	1.3	0.35	6.667	09/08/21 06:39	09/14/21 12:08	7782-49-2	D3
Silver	<b>&lt;0.18</b>	mg/kg	0.64	0.18	6.667	09/08/21 06:39	09/14/21 12:08	7440-22-4	D3
Vanadium	<b>27.6</b>	mg/kg	1.6	0.49	6.667	09/08/21 06:39	09/14/21 12:08	7440-62-2	
Zinc	<b>129</b>	mg/kg	44.5	13.3	6.667	09/08/21 06:39	09/14/21 12:08	7440-66-6	

**7471 Mercury**

Analytical Method: EPA 7471    Preparation Method: EPA 7471

Pace Analytical Services - Green Bay

Mercury	<b>0.38</b>	mg/kg	0.068	0.019	1	09/16/21 09:11	09/17/21 08:28	7439-97-6	
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**8270E MSSV FULL LIST MICROWAVE**    Analytical Method: EPA 8270E    Preparation Method: EPA 3546

Pace Analytical Services - Green Bay

2,4-Dimethylphenol	<b>&lt;271</b>	ug/kg	902	271	4	09/09/21 12:53	09/13/21 16:47	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;249</b>	ug/kg	829	249	4	09/09/21 12:53	09/13/21 16:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;251</b>	ug/kg	836	251	4	09/09/21 12:53	09/13/21 16:47		
Phenol	<b>&lt;325</b>	ug/kg	1080	325	4	09/09/21 12:53	09/13/21 16:47	108-95-2	D3
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	57	%	40-96		4	09/09/21 12:53	09/13/21 16:47	4165-60-0	
2-Fluorobiphenyl (S)	46	%	14-110		4	09/09/21 12:53	09/13/21 16:47	321-60-8	
Terphenyl-d14 (S)	63	%	10-121		4	09/09/21 12:53	09/13/21 16:47	1718-51-0	
Phenol-d6 (S)	61	%	14-104		4	09/09/21 12:53	09/13/21 16:47	13127-88-3	
2-Fluorophenol (S)	63	%	10-112		4	09/09/21 12:53	09/13/21 16:47	367-12-4	
2,4,6-Tribromophenol (S)	68	%	10-128		4	09/09/21 12:53	09/13/21 16:47	118-79-6	

**8270E MSSV PAH by SIM**

Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546

Pace Analytical Services - Green Bay

Acenaphthene	<b>&lt;88.8</b>	ug/kg	685	88.8	20	09/13/21 08:00	09/13/21 16:38	83-32-9	
Acenaphthylene	<b>345J</b>	ug/kg	685	86.3	20	09/13/21 08:00	09/13/21 16:38	208-96-8	
Anthracene	<b>322J</b>	ug/kg	685	84.9	20	09/13/21 08:00	09/13/21 16:38	120-12-7	
Benzo(a)anthracene	<b>1120</b>	ug/kg	685	88.5	20	09/13/21 08:00	09/13/21 16:38	56-55-3	
Benzo(a)pyrene	<b>1220</b>	ug/kg	685	77.8	20	09/13/21 08:00	09/13/21 16:38	50-32-8	
Benzo(b)fluoranthene	<b>1520</b>	ug/kg	685	95.0	20	09/13/21 08:00	09/13/21 16:38	205-99-2	
Benzo(g,h,i)perylene	<b>845</b>	ug/kg	685	120	20	09/13/21 08:00	09/13/21 16:38	191-24-2	
Benzo(k)fluoranthene	<b>640J</b>	ug/kg	685	87.5	20	09/13/21 08:00	09/13/21 16:38	207-08-9	
Chrysene	<b>1340</b>	ug/kg	685	129	20	09/13/21 08:00	09/13/21 16:38	218-01-9	
Dibenz(a,h)anthracene	<b>156J</b>	ug/kg	685	94.7	20	09/13/21 08:00	09/13/21 16:38	53-70-3	
Fluoranthene	<b>2240</b>	ug/kg	685	81.0	20	09/13/21 08:00	09/13/21 16:38	206-44-0	
Fluorene	<b>115J</b>	ug/kg	685	82.1	20	09/13/21 08:00	09/13/21 16:38	86-73-7	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221005**      **Lab ID: 40232753002**      Collected: 09/02/21 10:35      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Indeno(1,2,3-cd)pyrene	<b>701</b>	ug/kg	685	143	20	09/13/21 08:00	09/13/21 16:38	193-39-5	
2-Methylnaphthalene	<b>&lt;100</b>	ug/kg	685	100	20	09/13/21 08:00	09/13/21 16:38	91-57-6	
Naphthalene	<b>&lt;66.7</b>	ug/kg	685	66.7	20	09/13/21 08:00	09/13/21 16:38	91-20-3	
Phenanthrene	<b>1030</b>	ug/kg	685	78.4	20	09/13/21 08:00	09/13/21 16:38	85-01-8	
Pyrene	<b>1920</b>	ug/kg	685	101	20	09/13/21 08:00	09/13/21 16:38	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	26	%	36-86		20	09/13/21 08:00	09/13/21 16:38	321-60-8	S4
Terphenyl-d14 (S)	29	%	41-97		20	09/13/21 08:00	09/13/21 16:38	1718-51-0	S4

<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<b>&lt;38.7</b>	ug/kg	65.0	38.7	1	09/08/21 08:15	09/08/21 17:07	71-43-2	
Ethylbenzene	<b>&lt;38.7</b>	ug/kg	162	38.7	1	09/08/21 08:15	09/08/21 17:07	100-41-4	
Toluene	<b>&lt;40.9</b>	ug/kg	162	40.9	1	09/08/21 08:15	09/08/21 17:07	108-88-3	
1,2,4-Trimethylbenzene	<b>&lt;48.4</b>	ug/kg	162	48.4	1	09/08/21 08:15	09/08/21 17:07	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;52.3</b>	ug/kg	162	52.3	1	09/08/21 08:15	09/08/21 17:07	108-67-8	
Xylene (Total)	<b>&lt;117</b>	ug/kg	487	117	1	09/08/21 08:15	09/08/21 17:07	1330-20-7	
m&p-Xylene	<b>&lt;68.6</b>	ug/kg	325	68.6	1	09/08/21 08:15	09/08/21 17:07	179601-23-1	
o-Xylene	<b>&lt;48.7</b>	ug/kg	162	48.7	1	09/08/21 08:15	09/08/21 17:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	118	%	66-153		1	09/08/21 08:15	09/08/21 17:07	460-00-4	
Toluene-d8 (S)	141	%	67-159		1	09/08/21 08:15	09/08/21 17:07	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	132	%	82-158		1	09/08/21 08:15	09/08/21 17:07	2199-69-1	

<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	<b>51.2</b>	%	0.10	0.10	1		09/07/21 14:37		

**Sample: 090221006**      **Lab ID: 40232753003**      Collected: 09/02/21 10:37      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Aluminum	<b>13900</b>	mg/kg	493	148	6.667	09/08/21 06:39	09/14/21 12:16	7429-90-5	
Antimony	<b>&lt;0.31</b>	mg/kg	1.3	0.31	6.667	09/08/21 06:39	09/14/21 12:16	7440-36-0	D3
Arsenic	<b>3.9</b>	mg/kg	1.7	0.50	6.667	09/08/21 06:39	09/14/21 12:16	7440-38-2	
Barium	<b>81.0</b>	mg/kg	1.6	0.49	6.667	09/08/21 06:39	09/14/21 12:16	7440-39-3	
Cadmium	<b>0.89J</b>	mg/kg	1.3	0.18	6.667	09/08/21 06:39	09/14/21 12:16	7440-43-9	D3
Chromium	<b>37.9</b>	mg/kg	3.8	1.1	6.667	09/08/21 06:39	09/14/21 12:16	7440-47-3	
Copper	<b>41.6</b>	mg/kg	3.4	1.0	6.667	09/08/21 06:39	09/14/21 12:16	7440-50-8	
Iron	<b>21300</b>	mg/kg	313	91.3	6.667	09/08/21 06:39	09/14/21 12:16	7439-89-6	

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221006**      **Lab ID: 40232753003**      Collected: 09/02/21 10:37      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Lead	<b>67.9</b>	mg/kg	1.3	0.34	6.667	09/08/21 06:39	09/14/21 12:16	7439-92-1	
Manganese	<b>413</b>	mg/kg	3.4	1.0	6.667	09/08/21 06:39	09/14/21 12:16	7439-96-5	
Nickel	<b>20.4</b>	mg/kg	1.7	0.49	6.667	09/08/21 06:39	09/14/21 12:16	7440-02-0	
Selenium	<b>1.5</b>	mg/kg	1.3	0.34	6.667	09/08/21 06:39	09/14/21 12:16	7782-49-2	
Silver	<b>0.28J</b>	mg/kg	0.63	0.18	6.667	09/08/21 06:39	09/14/21 12:16	7440-22-4	D3
Vanadium	<b>35.2</b>	mg/kg	1.6	0.48	6.667	09/08/21 06:39	09/14/21 12:16	7440-62-2	
Zinc	<b>181</b>	mg/kg	43.6	13.1	6.667	09/08/21 06:39	09/14/21 12:16	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<b>0.33</b>	mg/kg	0.067	0.019	1	09/16/21 09:11	09/17/21 08:30	7439-97-6	
<b>8270E MSSV FULL LIST MICROWAVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
2,4-Dimethylphenol	<b>&lt;66.9</b>	ug/kg	223	66.9	1	09/09/21 12:53	09/13/21 16:05	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;61.4</b>	ug/kg	205	61.4	1	09/09/21 12:53	09/13/21 16:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;62.0</b>	ug/kg	207	62.0	1	09/09/21 12:53	09/13/21 16:05		
Phenol	<b>&lt;80.2</b>	ug/kg	267	80.2	1	09/09/21 12:53	09/13/21 16:05	108-95-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	79	%	40-96		1	09/09/21 12:53	09/13/21 16:05	4165-60-0	
2-Fluorobiphenyl (S)	99	%	14-110		1	09/09/21 12:53	09/13/21 16:05	321-60-8	
Terphenyl-d14 (S)	95	%	10-121		1	09/09/21 12:53	09/13/21 16:05	1718-51-0	
Phenol-d6 (S)	68	%	14-104		1	09/09/21 12:53	09/13/21 16:05	13127-88-3	
2-Fluorophenol (S)	68	%	10-112		1	09/09/21 12:53	09/13/21 16:05	367-12-4	
2,4,6-Tribromophenol (S)	119	%	10-128		1	09/09/21 12:53	09/13/21 16:05	118-79-6	
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>59.6</b>	ug/kg	33.9	4.4	1	09/13/21 08:00	09/13/21 15:47	83-32-9	
Acenaphthylene	<b>39.3</b>	ug/kg	33.9	4.3	1	09/13/21 08:00	09/13/21 15:47	208-96-8	
Anthracene	<b>123</b>	ug/kg	33.9	4.2	1	09/13/21 08:00	09/13/21 15:47	120-12-7	
Benzo(a)anthracene	<b>326</b>	ug/kg	33.9	4.4	1	09/13/21 08:00	09/13/21 15:47	56-55-3	
Benzo(a)pyrene	<b>301</b>	ug/kg	33.9	3.8	1	09/13/21 08:00	09/13/21 15:47	50-32-8	
Benzo(b)fluoranthene	<b>404</b>	ug/kg	33.9	4.7	1	09/13/21 08:00	09/13/21 15:47	205-99-2	
Benzo(g,h,i)perylene	<b>223</b>	ug/kg	33.9	5.9	1	09/13/21 08:00	09/13/21 15:47	191-24-2	
Benzo(k)fluoranthene	<b>153</b>	ug/kg	33.9	4.3	1	09/13/21 08:00	09/13/21 15:47	207-08-9	
Chrysene	<b>322</b>	ug/kg	33.9	6.4	1	09/13/21 08:00	09/13/21 15:47	218-01-9	
Dibenz(a,h)anthracene	<b>52.8</b>	ug/kg	33.9	4.7	1	09/13/21 08:00	09/13/21 15:47	53-70-3	
Fluoranthene	<b>760</b>	ug/kg	33.9	4.0	1	09/13/21 08:00	09/13/21 15:47	206-44-0	
Fluorene	<b>67.5</b>	ug/kg	33.9	4.1	1	09/13/21 08:00	09/13/21 15:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>173</b>	ug/kg	33.9	7.1	1	09/13/21 08:00	09/13/21 15:47	193-39-5	
2-Methylnaphthalene	<b>32.9J</b>	ug/kg	33.9	5.0	1	09/13/21 08:00	09/13/21 15:47	91-57-6	
Naphthalene	<b>63.3</b>	ug/kg	33.9	3.3	1	09/13/21 08:00	09/13/21 15:47	91-20-3	
Phenanthrene	<b>509</b>	ug/kg	33.9	3.9	1	09/13/21 08:00	09/13/21 15:47	85-01-8	

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221006**      **Lab ID: 40232753003**      Collected: 09/02/21 10:37      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Pyrene	<b>598</b>	ug/kg	33.9	5.0	1	09/13/21 08:00	09/13/21 15:47	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	36-86		1	09/13/21 08:00	09/13/21 15:47	321-60-8	
Terphenyl-d14 (S)	62	%	41-97		1	09/13/21 08:00	09/13/21 15:47	1718-51-0	
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<b>&lt;36.3</b>	ug/kg	61.0	36.3	1	09/08/21 08:15	09/08/21 17:27	71-43-2	
Ethylbenzene	<b>&lt;36.3</b>	ug/kg	153	36.3	1	09/08/21 08:15	09/08/21 17:27	100-41-4	
Toluene	<b>&lt;38.4</b>	ug/kg	153	38.4	1	09/08/21 08:15	09/08/21 17:27	108-88-3	
1,2,4-Trimethylbenzene	<b>&lt;45.5</b>	ug/kg	153	45.5	1	09/08/21 08:15	09/08/21 17:27	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;49.1</b>	ug/kg	153	49.1	1	09/08/21 08:15	09/08/21 17:27	108-67-8	
Xylene (Total)	<b>&lt;110</b>	ug/kg	458	110	1	09/08/21 08:15	09/08/21 17:27	1330-20-7	
m&p-Xylene	<b>&lt;64.4</b>	ug/kg	305	64.4	1	09/08/21 08:15	09/08/21 17:27	179601-23-1	
o-Xylene	<b>&lt;45.8</b>	ug/kg	153	45.8	1	09/08/21 08:15	09/08/21 17:27	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	130	%	66-153		1	09/08/21 08:15	09/08/21 17:27	460-00-4	
Toluene-d8 (S)	147	%	67-159		1	09/08/21 08:15	09/08/21 17:27	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	147	%	82-158		1	09/08/21 08:15	09/08/21 17:27	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	<b>50.6</b>	%	0.10	0.10	1		09/07/21 14:37		

**Sample: 090221007**      **Lab ID: 40232753004**      Collected: 09/02/21 10:42      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Aluminum	<b>16000</b>	mg/kg	487	146	6.667	09/08/21 06:39	09/14/21 12:23	7429-90-5	
Antimony	<b>0.33J</b>	mg/kg	1.2	0.31	6.667	09/08/21 06:39	09/14/21 12:23	7440-36-0	D3
Arsenic	<b>4.1</b>	mg/kg	1.6	0.49	6.667	09/08/21 06:39	09/14/21 12:23	7440-38-2	
Barium	<b>85.7</b>	mg/kg	1.6	0.49	6.667	09/08/21 06:39	09/14/21 12:23	7440-39-3	
Cadmium	<b>0.79J</b>	mg/kg	1.2	0.18	6.667	09/08/21 06:39	09/14/21 12:23	7440-43-9	D3
Chromium	<b>38.4</b>	mg/kg	3.8	1.1	6.667	09/08/21 06:39	09/14/21 12:23	7440-47-3	
Copper	<b>41.5</b>	mg/kg	3.3	0.99	6.667	09/08/21 06:39	09/14/21 12:23	7440-50-8	
Iron	<b>23400</b>	mg/kg	309	90.3	6.667	09/08/21 06:39	09/14/21 12:23	7439-89-6	
Lead	<b>64.8</b>	mg/kg	1.2	0.34	6.667	09/08/21 06:39	09/14/21 12:23	7439-92-1	
Manganese	<b>404</b>	mg/kg	3.4	1.0	6.667	09/08/21 06:39	09/14/21 12:23	7439-96-5	
Nickel	<b>22.6</b>	mg/kg	1.6	0.49	6.667	09/08/21 06:39	09/14/21 12:23	7440-02-0	
Selenium	<b>1.7</b>	mg/kg	1.2	0.34	6.667	09/08/21 06:39	09/14/21 12:23	7782-49-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221007**      **Lab ID: 40232753004**      Collected: 09/02/21 10:42      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Silver	<b>0.22J</b>	mg/kg	0.62	0.18	6.667	09/08/21 06:39	09/14/21 12:23	7440-22-4	D3
Vanadium	<b>36.3</b>	mg/kg	1.6	0.47	6.667	09/08/21 06:39	09/14/21 12:23	7440-62-2	
Zinc	<b>245</b>	mg/kg	43.1	12.9	6.667	09/08/21 06:39	09/14/21 12:23	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<b>0.40</b>	mg/kg	0.061	0.017	1	09/16/21 09:11	09/17/21 08:32	7439-97-6	
<b>8270E MSSV FULL LIST MICROWAVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
2,4-Dimethylphenol	<b>&lt;64.3</b>	ug/kg	214	64.3	1	09/13/21 13:00	09/15/21 10:32	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;59.1</b>	ug/kg	197	59.1	1	09/13/21 13:00	09/15/21 10:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;59.6</b>	ug/kg	199	59.6	1	09/13/21 13:00	09/15/21 10:32		
Phenol	<b>&lt;77.1</b>	ug/kg	257	77.1	1	09/13/21 13:00	09/15/21 10:32	108-95-2	
<b>Surrogates</b>									
Phenol-d6 (S)	54	%	14-104		1	09/13/21 13:00	09/15/21 10:32	13127-88-3	
2-Fluorophenol (S)	49	%	10-112		1	09/13/21 13:00	09/15/21 10:32	367-12-4	
2,4,6-Tribromophenol (S)	89	%	10-128		1	09/13/21 13:00	09/15/21 10:32	118-79-6	
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>87.6</b>	ug/kg	32.6	4.2	1	09/13/21 08:00	09/13/21 12:37	83-32-9	
Acenaphthylene	<b>16.0J</b>	ug/kg	32.6	4.1	1	09/13/21 08:00	09/13/21 12:37	208-96-8	
Anthracene	<b>83.0</b>	ug/kg	32.6	4.0	1	09/13/21 08:00	09/13/21 12:37	120-12-7	
Benzo(a)anthracene	<b>331</b>	ug/kg	32.6	4.2	1	09/13/21 08:00	09/13/21 12:37	56-55-3	
Benzo(a)pyrene	<b>388</b>	ug/kg	32.6	3.7	1	09/13/21 08:00	09/13/21 12:37	50-32-8	
Benzo(b)fluoranthene	<b>587</b>	ug/kg	32.6	4.5	1	09/13/21 08:00	09/13/21 12:37	205-99-2	
Benzo(g,h,i)perylene	<b>312</b>	ug/kg	32.6	5.7	1	09/13/21 08:00	09/13/21 12:37	191-24-2	
Benzo(k)fluoranthene	<b>211</b>	ug/kg	32.6	4.2	1	09/13/21 08:00	09/13/21 12:37	207-08-9	
Chrysene	<b>448</b>	ug/kg	32.6	6.1	1	09/13/21 08:00	09/13/21 12:37	218-01-9	
Dibenz(a,h)anthracene	<b>72.9</b>	ug/kg	32.6	4.5	1	09/13/21 08:00	09/13/21 12:37	53-70-3	
Fluoranthene	<b>1110</b>	ug/kg	32.6	3.9	1	09/13/21 08:00	09/13/21 12:37	206-44-0	
Fluorene	<b>91.9</b>	ug/kg	32.6	3.9	1	09/13/21 08:00	09/13/21 12:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>256</b>	ug/kg	32.6	6.8	1	09/13/21 08:00	09/13/21 12:37	193-39-5	
2-Methylnaphthalene	<b>34.1</b>	ug/kg	32.6	4.8	1	09/13/21 08:00	09/13/21 12:37	91-57-6	
Naphthalene	<b>75.3</b>	ug/kg	32.6	3.2	1	09/13/21 08:00	09/13/21 12:37	91-20-3	
Phenanthrene	<b>1030</b>	ug/kg	32.6	3.7	1	09/13/21 08:00	09/13/21 12:37	85-01-8	
Pyrene	<b>809</b>	ug/kg	32.6	4.8	1	09/13/21 08:00	09/13/21 12:37	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	51	%	36-86		1	09/13/21 08:00	09/13/21 12:37	321-60-8	
Terphenyl-d14 (S)	60	%	41-97		1	09/13/21 08:00	09/13/21 12:37	1718-51-0	

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

**Sample: 090221007**      **Lab ID: 40232753004**      Collected: 09/02/21 10:42      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<34.9	ug/kg	58.7	34.9	1	09/08/21 08:15	09/08/21 17:46	71-43-2	
Ethylbenzene	<34.9	ug/kg	147	34.9	1	09/08/21 08:15	09/08/21 17:46	100-41-4	
Toluene	<37.0	ug/kg	147	37.0	1	09/08/21 08:15	09/08/21 17:46	108-88-3	
1,2,4-Trimethylbenzene	<43.7	ug/kg	147	43.7	1	09/08/21 08:15	09/08/21 17:46	95-63-6	
1,3,5-Trimethylbenzene	<47.3	ug/kg	147	47.3	1	09/08/21 08:15	09/08/21 17:46	108-67-8	
Xylene (Total)	<106	ug/kg	440	106	1	09/08/21 08:15	09/08/21 17:46	1330-20-7	
m&p-Xylene	<62.0	ug/kg	294	62.0	1	09/08/21 08:15	09/08/21 17:46	179601-23-1	
o-Xylene	<44.0	ug/kg	147	44.0	1	09/08/21 08:15	09/08/21 17:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	134	%	66-153		1	09/08/21 08:15	09/08/21 17:46	460-00-4	
Toluene-d8 (S)	146	%	67-159		1	09/08/21 08:15	09/08/21 17:46	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	143	%	82-158		1	09/08/21 08:15	09/08/21 17:46	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	48.7	%	0.10	0.10	1		09/07/21 14:37		

**Sample: 090221008**      **Lab ID: 40232753005**      Collected: 09/02/21 11:15      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Aluminum	11900	mg/kg	494	148	6.667	09/08/21 06:39	09/14/21 12:30	7429-90-5	
Antimony	<0.31	mg/kg	1.3	0.31	6.667	09/08/21 06:39	09/14/21 12:30	7440-36-0	D3
Arsenic	2.9	mg/kg	1.7	0.50	6.667	09/08/21 06:39	09/14/21 12:30	7440-38-2	
Barium	60.4	mg/kg	1.6	0.49	6.667	09/08/21 06:39	09/14/21 12:30	7440-39-3	
Cadmium	0.29J	mg/kg	1.3	0.18	6.667	09/08/21 06:39	09/14/21 12:30	7440-43-9	D3
Chromium	35.0	mg/kg	3.8	1.1	6.667	09/08/21 06:39	09/14/21 12:30	7440-47-3	
Copper	30.1	mg/kg	3.4	1.0	6.667	09/08/21 06:39	09/14/21 12:30	7440-50-8	
Iron	18500	mg/kg	314	91.5	6.667	09/08/21 06:39	09/14/21 12:30	7439-89-6	
Lead	54.4	mg/kg	1.3	0.34	6.667	09/08/21 06:39	09/14/21 12:30	7439-92-1	
Manganese	418	mg/kg	3.4	1.0	6.667	09/08/21 06:39	09/14/21 12:30	7439-96-5	
Nickel	16.8	mg/kg	1.7	0.50	6.667	09/08/21 06:39	09/14/21 12:30	7440-02-0	
Selenium	1.4	mg/kg	1.3	0.34	6.667	09/08/21 06:39	09/14/21 12:30	7782-49-2	
Silver	<0.18	mg/kg	0.63	0.18	6.667	09/08/21 06:39	09/14/21 12:30	7440-22-4	D3
Vanadium	31.1	mg/kg	1.6	0.48	6.667	09/08/21 06:39	09/14/21 12:30	7440-62-2	
Zinc	114	mg/kg	43.7	13.1	6.667	09/08/21 06:39	09/14/21 12:30	7440-66-6	

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## ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221008**      **Lab ID: 40232753005**      Collected: 09/02/21 11:15      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<b>0.094</b>	mg/kg	0.068	0.019	1	09/16/21 09:11	09/17/21 08:35	7439-97-6	
<b>8270E MSSV FULL LIST MICROWAVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
2,4-Dimethylphenol	<b>&lt;265</b>	ug/kg	883	265	4	09/13/21 13:00	09/15/21 11:14	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;243</b>	ug/kg	811	243	4	09/13/21 13:00	09/15/21 11:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;246</b>	ug/kg	818	246	4	09/13/21 13:00	09/15/21 11:14		
Phenol	<b>&lt;318</b>	ug/kg	1060	318	4	09/13/21 13:00	09/15/21 11:14	108-95-2	D3
<b>Surrogates</b>									
Phenol-d6 (S)	45	%	14-104		4	09/13/21 13:00	09/15/21 11:14	13127-88-3	
2-Fluorophenol (S)	45	%	10-112		4	09/13/21 13:00	09/15/21 11:14	367-12-4	
2,4,6-Tribromophenol (S)	67	%	10-128		4	09/13/21 13:00	09/15/21 11:14	118-79-6	
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>146J</b>	ug/kg	670	86.8	20	09/13/21 08:00	09/13/21 16:56	83-32-9	
Acenaphthylene	<b>743</b>	ug/kg	670	84.4	20	09/13/21 08:00	09/13/21 16:56	208-96-8	
Anthracene	<b>732</b>	ug/kg	670	83.1	20	09/13/21 08:00	09/13/21 16:56	120-12-7	
Benzo(a)anthracene	<b>2330</b>	ug/kg	670	86.5	20	09/13/21 08:00	09/13/21 16:56	56-55-3	
Benzo(a)pyrene	<b>2280</b>	ug/kg	670	76.1	20	09/13/21 08:00	09/13/21 16:56	50-32-8	
Benzo(b)fluoranthene	<b>2690</b>	ug/kg	670	92.9	20	09/13/21 08:00	09/13/21 16:56	205-99-2	
Benzo(g,h,i)perylene	<b>1390</b>	ug/kg	670	117	20	09/13/21 08:00	09/13/21 16:56	191-24-2	
Benzo(k)fluoranthene	<b>910</b>	ug/kg	670	85.6	20	09/13/21 08:00	09/13/21 16:56	207-08-9	
Chrysene	<b>2500</b>	ug/kg	670	126	20	09/13/21 08:00	09/13/21 16:56	218-01-9	
Dibenz(a,h)anthracene	<b>383J</b>	ug/kg	670	92.6	20	09/13/21 08:00	09/13/21 16:56	53-70-3	
Fluoranthene	<b>4460</b>	ug/kg	670	79.2	20	09/13/21 08:00	09/13/21 16:56	206-44-0	
Fluorene	<b>300J</b>	ug/kg	670	80.3	20	09/13/21 08:00	09/13/21 16:56	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>1230</b>	ug/kg	670	139	20	09/13/21 08:00	09/13/21 16:56	193-39-5	
2-Methylnaphthalene	<b>172J</b>	ug/kg	670	97.9	20	09/13/21 08:00	09/13/21 16:56	91-57-6	
Naphthalene	<b>242J</b>	ug/kg	670	65.2	20	09/13/21 08:00	09/13/21 16:56	91-20-3	
Phenanthrene	<b>2570</b>	ug/kg	670	76.7	20	09/13/21 08:00	09/13/21 16:56	85-01-8	
Pyrene	<b>4040</b>	ug/kg	670	98.4	20	09/13/21 08:00	09/13/21 16:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	50	%	36-86		20	09/13/21 08:00	09/13/21 16:56	321-60-8	
Terphenyl-d14 (S)	51	%	41-97		20	09/13/21 08:00	09/13/21 16:56	1718-51-0	
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<b>&lt;37.4</b>	ug/kg	62.8	37.4	1	09/08/21 08:15	09/08/21 18:06	71-43-2	
Ethylbenzene	<b>&lt;37.4</b>	ug/kg	157	37.4	1	09/08/21 08:15	09/08/21 18:06	100-41-4	
Toluene	<b>&lt;39.6</b>	ug/kg	157	39.6	1	09/08/21 08:15	09/08/21 18:06	108-88-3	
1,2,4-Trimethylbenzene	<b>&lt;46.8</b>	ug/kg	157	46.8	1	09/08/21 08:15	09/08/21 18:06	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;50.5</b>	ug/kg	157	50.5	1	09/08/21 08:15	09/08/21 18:06	108-67-8	
Xylene (Total)	<b>&lt;113</b>	ug/kg	471	113	1	09/08/21 08:15	09/08/21 18:06	1330-20-7	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

**Sample: 090221008**      **Lab ID: 40232753005**      Collected: 09/02/21 11:15      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
m&p-Xylene	<66.2	ug/kg	314	66.2	1	09/08/21 08:15	09/08/21 18:06	179601-23-1	
o-Xylene	<47.1	ug/kg	157	47.1	1	09/08/21 08:15	09/08/21 18:06	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	117	%	66-153		1	09/08/21 08:15	09/08/21 18:06	460-00-4	
Toluene-d8 (S)	132	%	67-159		1	09/08/21 08:15	09/08/21 18:06	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	129	%	82-158		1	09/08/21 08:15	09/08/21 18:06	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	50.1	%	0.10	0.10	1		09/07/21 14:37		

**Sample: 090221009**      **Lab ID: 40232753006**      Collected: 09/02/21 11:20      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Aluminum	9750	mg/kg	433	130	6.667	09/08/21 06:39	09/14/21 11:24	7429-90-5	P6
Antimony	0.92J	mg/kg	1.1	0.27	6.667	09/08/21 06:39	09/14/21 11:24	7440-36-0	D3
Arsenic	4.6	mg/kg	1.5	0.44	6.667	09/08/21 06:39	09/14/21 11:24	7440-38-2	
Barium	60.8	mg/kg	1.4	0.43	6.667	09/08/21 06:39	09/14/21 11:24	7440-39-3	M0,R1
Cadmium	0.96J	mg/kg	1.1	0.16	6.667	09/08/21 06:39	09/14/21 11:24	7440-43-9	D3
Chromium	29.1	mg/kg	3.3	1.0	6.667	09/08/21 06:39	09/14/21 11:24	7440-47-3	
Copper	51.9	mg/kg	2.9	0.88	6.667	09/08/21 06:39	09/14/21 11:24	7440-50-8	M0
Iron	22700	mg/kg	275	80.3	6.667	09/08/21 06:39	09/14/21 11:24	7439-89-6	P6
Lead	410	mg/kg	3.3	0.90	20	09/08/21 06:39	09/14/21 20:15	7439-92-1	P6,R1
Manganese	309	mg/kg	3.0	0.91	6.667	09/08/21 06:39	09/14/21 11:24	7439-96-5	M0
Nickel	19.7	mg/kg	1.5	0.43	6.667	09/08/21 06:39	09/14/21 11:24	7440-02-0	
Selenium	1.2	mg/kg	1.1	0.30	6.667	09/08/21 06:39	09/14/21 11:24	7782-49-2	
Silver	0.62	mg/kg	0.55	0.16	6.667	09/08/21 06:39	09/14/21 11:24	7440-22-4	
Vanadium	26.9	mg/kg	1.4	0.42	6.667	09/08/21 06:39	09/14/21 11:24	7440-62-2	
Zinc	539	mg/kg	115	34.5	20	09/08/21 06:39	09/14/21 20:15	7440-66-6	P6,R1
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.16	mg/kg	0.057	0.016	1	09/16/21 09:11	09/17/21 08:19	7439-97-6	
<b>8270E MSSV FULL LIST MICROWAVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
2,4-Dimethylphenol	<546	ug/kg	1820	546	10	09/14/21 10:35	09/15/21 13:42	105-67-9	
2-Methylphenol(o-Cresol)	<501	ug/kg	1670	501	10	09/14/21 10:35	09/15/21 13:42	95-48-7	

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221009**      **Lab ID: 40232753006**      Collected: 09/02/21 11:20      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV FULL LIST MICROWAVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
3&4-Methylphenol(m&p Cresol)	<506	ug/kg	1690	506	10	09/14/21 10:35	09/15/21 13:42		
Phenol	<655	ug/kg	2180	655	10	09/14/21 10:35	09/15/21 13:42	108-95-2	D3
<b>Surrogates</b>									
Phenol-d6 (S)	42	%	14-104		10	09/14/21 10:35	09/15/21 13:42	13127-88-3	
2-Fluorophenol (S)	44	%	10-112		10	09/14/21 10:35	09/15/21 13:42	367-12-4	
2,4,6-Tribromophenol (S)	41	%	10-128		10	09/14/21 10:35	09/15/21 13:42	118-79-6	
<b>8270E MSSV PAH by SIM</b> Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	154J	ug/kg	276	35.8	10	09/13/21 08:00	09/13/21 18:05	83-32-9	M1,R1
Acenaphthylene	221J	ug/kg	276	34.8	10	09/13/21 08:00	09/13/21 18:05	208-96-8	
Anthracene	310	ug/kg	276	34.2	10	09/13/21 08:00	09/13/21 18:05	120-12-7	M1,R1
Benzo(a)anthracene	777	ug/kg	276	35.7	10	09/13/21 08:00	09/13/21 18:05	56-55-3	M1,R1
Benzo(a)pyrene	760	ug/kg	276	31.3	10	09/13/21 08:00	09/13/21 18:05	50-32-8	M1,R1
Benzo(b)fluoranthene	954	ug/kg	276	38.3	10	09/13/21 08:00	09/13/21 18:05	205-99-2	M1,R1
Benzo(g,h,i)perylene	516	ug/kg	276	48.4	10	09/13/21 08:00	09/13/21 18:05	191-24-2	M1,R1
Benzo(k)fluoranthene	372	ug/kg	276	35.3	10	09/13/21 08:00	09/13/21 18:05	207-08-9	M1,R1
Chrysene	890	ug/kg	276	52.0	10	09/13/21 08:00	09/13/21 18:05	218-01-9	M1,R1
Dibenz(a,h)anthracene	103J	ug/kg	276	38.2	10	09/13/21 08:00	09/13/21 18:05	53-70-3	R1
Fluoranthene	1710	ug/kg	276	32.6	10	09/13/21 08:00	09/13/21 18:05	206-44-0	M1,R1
Fluorene	203J	ug/kg	276	33.1	10	09/13/21 08:00	09/13/21 18:05	86-73-7	M1,R1
Indeno(1,2,3-cd)pyrene	412	ug/kg	276	57.5	10	09/13/21 08:00	09/13/21 18:05	193-39-5	M1,R1
2-Methylnaphthalene	<40.3	ug/kg	276	40.3	10	09/13/21 08:00	09/13/21 18:05	91-57-6	R1
Naphthalene	30.1J	ug/kg	276	26.9	10	09/13/21 08:00	09/13/21 18:05	91-20-3	M1,R1
Phenanthrene	1260	ug/kg	276	31.6	10	09/13/21 08:00	09/13/21 18:05	85-01-8	M1,R1
Pyrene	1540	ug/kg	276	40.5	10	09/13/21 08:00	09/13/21 18:05	129-00-0	M1,R1
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	39	%	36-86		10	09/13/21 08:00	09/13/21 18:05	321-60-8	
Terphenyl-d14 (S)	40	%	41-97		10	09/13/21 08:00	09/13/21 18:05	1718-51-0	S0
<b>8260 MSV Med Level Short List</b> Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<27.4	ug/kg	46.0	27.4	1	09/08/21 08:15	09/08/21 11:14	71-43-2	
Ethylbenzene	<27.4	ug/kg	115	27.4	1	09/08/21 08:15	09/08/21 11:14	100-41-4	M1
Toluene	<29.0	ug/kg	115	29.0	1	09/08/21 08:15	09/08/21 11:14	108-88-3	M1
1,2,4-Trimethylbenzene	<34.3	ug/kg	115	34.3	1	09/08/21 08:15	09/08/21 11:14	95-63-6	
1,3,5-Trimethylbenzene	<37.0	ug/kg	115	37.0	1	09/08/21 08:15	09/08/21 11:14	108-67-8	
Xylene (Total)	<83.1	ug/kg	345	83.1	1	09/08/21 08:15	09/08/21 11:14	1330-20-7	
m&p-Xylene	<48.6	ug/kg	230	48.6	1	09/08/21 08:15	09/08/21 11:14	179601-23-1	
o-Xylene	<34.5	ug/kg	115	34.5	1	09/08/21 08:15	09/08/21 11:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	114	%	66-153		1	09/08/21 08:15	09/08/21 11:14	460-00-4	
Toluene-d8 (S)	123	%	67-159		1	09/08/21 08:15	09/08/21 11:14	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	128	%	82-158		1	09/08/21 08:15	09/08/21 11:14	2199-69-1	

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221009**      **Lab ID: 40232753006**      Collected: 09/02/21 11:20      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	<b>39.4</b>	%	0.10	0.10	1		09/07/21 14:37		

**Sample: 090221010**      **Lab ID: 40232753007**      Collected: 09/02/21 11:45      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Aluminum	<b>16200</b>	mg/kg	337	101	6.667	09/08/21 06:39	09/14/21 12:52	7429-90-5	
Antimony	<b>&lt;0.21</b>	mg/kg	0.86	0.21	6.667	09/08/21 06:39	09/14/21 12:52	7440-36-0	D3
Arsenic	<b>6.5</b>	mg/kg	1.1	0.34	6.667	09/08/21 06:39	09/14/21 12:52	7440-38-2	
Barium	<b>72.9</b>	mg/kg	1.1	0.34	6.667	09/08/21 06:39	09/14/21 12:52	7440-39-3	
Cadmium	<b>&lt;0.12</b>	mg/kg	0.86	0.12	6.667	09/08/21 06:39	09/14/21 12:52	7440-43-9	D3
Chromium	<b>33.4</b>	mg/kg	2.6	0.78	6.667	09/08/21 06:39	09/14/21 12:52	7440-47-3	
Copper	<b>28.2</b>	mg/kg	2.3	0.69	6.667	09/08/21 06:39	09/14/21 12:52	7440-50-8	
Iron	<b>25300</b>	mg/kg	214	62.4	6.667	09/08/21 06:39	09/14/21 12:52	7439-89-6	
Lead	<b>13.2</b>	mg/kg	0.86	0.23	6.667	09/08/21 06:39	09/14/21 12:52	7439-92-1	
Manganese	<b>585</b>	mg/kg	2.4	0.71	6.667	09/08/21 06:39	09/14/21 12:52	7439-96-5	
Nickel	<b>29.8</b>	mg/kg	1.1	0.34	6.667	09/08/21 06:39	09/14/21 12:52	7440-02-0	
Selenium	<b>1.3</b>	mg/kg	0.86	0.23	6.667	09/08/21 06:39	09/14/21 12:52	7782-49-2	
Silver	<b>&lt;0.12</b>	mg/kg	0.43	0.12	6.667	09/08/21 06:39	09/14/21 12:52	7440-22-4	D3
Vanadium	<b>39.7</b>	mg/kg	1.1	0.33	6.667	09/08/21 06:39	09/14/21 12:52	7440-62-2	
Zinc	<b>59.7</b>	mg/kg	29.8	8.9	6.667	09/08/21 06:39	09/14/21 12:52	7440-66-6	

**7471 Mercury**      Analytical Method: EPA 7471      Preparation Method: EPA 7471

Pace Analytical Services - Green Bay

Mercury	<b>&lt;0.013</b>	mg/kg	0.045	0.013	1	09/16/21 09:11	09/17/21 08:42	7439-97-6	
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**8270E MSSV FULL LIST MICROWAVE**      Analytical Method: EPA 8270E      Preparation Method: EPA 3546

Pace Analytical Services - Green Bay

2,4-Dimethylphenol	<b>&lt;45.7</b>	ug/kg	152	45.7	1	09/14/21 10:35	09/15/21 10:53	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;41.9</b>	ug/kg	140	41.9	1	09/14/21 10:35	09/15/21 10:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;42.3</b>	ug/kg	141	42.3	1	09/14/21 10:35	09/15/21 10:53		
Phenol	<b>&lt;54.8</b>	ug/kg	183	54.8	1	09/14/21 10:35	09/15/21 10:53	108-95-2	
<b>Surrogates</b>									
Phenol-d6 (S)	60	%	14-104		1	09/14/21 10:35	09/15/21 10:53	13127-88-3	
2-Fluorophenol (S)	61	%	10-112		1	09/14/21 10:35	09/15/21 10:53	367-12-4	
2,4,6-Tribromophenol (S)	70	%	10-128		1	09/14/21 10:35	09/15/21 10:53	118-79-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221010**      **Lab ID: 40232753007**      Collected: 09/02/21 11:45      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<3.0	ug/kg	23.1	3.0	1	09/14/21 08:41	09/14/21 14:53	83-32-9	
Acenaphthylene	<2.9	ug/kg	23.1	2.9	1	09/14/21 08:41	09/14/21 14:53	208-96-8	
Anthracene	7.7J	ug/kg	23.1	2.9	1	09/14/21 08:41	09/14/21 14:53	120-12-7	
Benzo(a)anthracene	27.1	ug/kg	23.1	3.0	1	09/14/21 08:41	09/14/21 14:53	56-55-3	
Benzo(a)pyrene	31.8	ug/kg	23.1	2.6	1	09/14/21 08:41	09/14/21 14:53	50-32-8	
Benzo(b)fluoranthene	48.3	ug/kg	23.1	3.2	1	09/14/21 08:41	09/14/21 14:53	205-99-2	
Benzo(g,h,i)perylene	30.4	ug/kg	23.1	4.1	1	09/14/21 08:41	09/14/21 14:53	191-24-2	
Benzo(k)fluoranthene	20.2J	ug/kg	23.1	3.0	1	09/14/21 08:41	09/14/21 14:53	207-08-9	
Chrysene	41.9	ug/kg	23.1	4.4	1	09/14/21 08:41	09/14/21 14:53	218-01-9	
Dibenz(a,h)anthracene	5.8J	ug/kg	23.1	3.2	1	09/14/21 08:41	09/14/21 14:53	53-70-3	
Fluoranthene	82.3	ug/kg	23.1	2.7	1	09/14/21 08:41	09/14/21 14:53	206-44-0	
Fluorene	2.8J	ug/kg	23.1	2.8	1	09/14/21 08:41	09/14/21 14:53	86-73-7	
Indeno(1,2,3-cd)pyrene	24.0	ug/kg	23.1	4.8	1	09/14/21 08:41	09/14/21 14:53	193-39-5	
2-Methylnaphthalene	5.3J	ug/kg	23.1	3.4	1	09/14/21 08:41	09/14/21 14:53	91-57-6	
Naphthalene	<2.2	ug/kg	23.1	2.2	1	09/14/21 08:41	09/14/21 14:53	91-20-3	
Phenanthrene	33.7	ug/kg	23.1	2.6	1	09/14/21 08:41	09/14/21 14:53	85-01-8	
Pyrene	59.9	ug/kg	23.1	3.4	1	09/14/21 08:41	09/14/21 14:53	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	64	%	36-86		1	09/14/21 08:41	09/14/21 14:53	321-60-8	
Terphenyl-d14 (S)	66	%	41-97		1	09/14/21 08:41	09/14/21 14:53	1718-51-0	
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<21.0	ug/kg	35.4	21.0	1	09/08/21 08:15	09/08/21 18:25	71-43-2	
Ethylbenzene	<21.0	ug/kg	88.4	21.0	1	09/08/21 08:15	09/08/21 18:25	100-41-4	
Toluene	<22.3	ug/kg	88.4	22.3	1	09/08/21 08:15	09/08/21 18:25	108-88-3	
1,2,4-Trimethylbenzene	<26.3	ug/kg	88.4	26.3	1	09/08/21 08:15	09/08/21 18:25	95-63-6	
1,3,5-Trimethylbenzene	<28.5	ug/kg	88.4	28.5	1	09/08/21 08:15	09/08/21 18:25	108-67-8	
Xylene (Total)	<63.8	ug/kg	265	63.8	1	09/08/21 08:15	09/08/21 18:25	1330-20-7	
m&p-Xylene	<37.3	ug/kg	177	37.3	1	09/08/21 08:15	09/08/21 18:25	179601-23-1	
o-Xylene	<26.5	ug/kg	88.4	26.5	1	09/08/21 08:15	09/08/21 18:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108	%	66-153		1	09/08/21 08:15	09/08/21 18:25	460-00-4	
Toluene-d8 (S)	121	%	67-159		1	09/08/21 08:15	09/08/21 18:25	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	115	%	82-158		1	09/08/21 08:15	09/08/21 18:25	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	27.7	%	0.10	0.10	1		09/07/21 14:37		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

Sample: 090221011 Lab ID: 40232753008 Collected: 09/02/21 13:20 Received: 09/03/21 11:52 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Aluminum	15400	mg/kg	651	195	6.667	09/08/21 06:39	09/14/21 13:00	7429-90-5	
Antimony	<0.41	mg/kg	1.7	0.41	6.667	09/08/21 06:39	09/14/21 13:00	7440-36-0	D3
Arsenic	3.4	mg/kg	2.2	0.65	6.667	09/08/21 06:39	09/14/21 13:00	7440-38-2	
Barium	75.7	mg/kg	2.2	0.65	6.667	09/08/21 06:39	09/14/21 13:00	7440-39-3	
Cadmium	0.35J	mg/kg	1.7	0.24	6.667	09/08/21 06:39	09/14/21 13:00	7440-43-9	D3
Chromium	33.4	mg/kg	5.0	1.5	6.667	09/08/21 06:39	09/14/21 13:00	7440-47-3	
Copper	35.9	mg/kg	4.4	1.3	6.667	09/08/21 06:39	09/14/21 13:00	7440-50-8	
Iron	22000	mg/kg	413	121	6.667	09/08/21 06:39	09/14/21 13:00	7439-89-6	
Lead	23.2	mg/kg	1.7	0.45	6.667	09/08/21 06:39	09/14/21 13:00	7439-92-1	
Manganese	382	mg/kg	4.5	1.4	6.667	09/08/21 06:39	09/14/21 13:00	7439-96-5	
Nickel	19.2	mg/kg	2.2	0.65	6.667	09/08/21 06:39	09/14/21 13:00	7440-02-0	
Selenium	1.4J	mg/kg	1.7	0.45	6.667	09/08/21 06:39	09/14/21 13:00	7782-49-2	D3
Silver	<0.24	mg/kg	0.83	0.24	6.667	09/08/21 06:39	09/14/21 13:00	7440-22-4	D3
Vanadium	34.0	mg/kg	2.1	0.63	6.667	09/08/21 06:39	09/14/21 13:00	7440-62-2	
Zinc	129	mg/kg	57.6	17.3	6.667	09/08/21 06:39	09/14/21 13:00	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.069J	mg/kg	0.080	0.023	1	09/16/21 09:11	09/17/21 08:44	7439-97-6	
<b>8270E MSSV FULL LIST MICROWAVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
2,4-Dimethylphenol	<333	ug/kg	1110	333	4	09/14/21 10:35	09/15/21 11:35	105-67-9	
2-Methylphenol(o-Cresol)	<306	ug/kg	1020	306	4	09/14/21 10:35	09/15/21 11:35	95-48-7	
3&4-Methylphenol(m&p Cresol)	<309	ug/kg	1030	309	4	09/14/21 10:35	09/15/21 11:35		
Phenol	<400	ug/kg	1330	400	4	09/14/21 10:35	09/15/21 11:35	108-95-2	D3
<b>Surrogates</b>									
Phenol-d6 (S)	62	%	14-104		4	09/14/21 10:35	09/15/21 11:35	13127-88-3	
2-Fluorophenol (S)	68	%	10-112		4	09/14/21 10:35	09/15/21 11:35	367-12-4	
2,4,6-Tribromophenol (S)	62	%	10-128		4	09/14/21 10:35	09/15/21 11:35	118-79-6	
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	468J	ug/kg	842	109	20	09/14/21 08:41	09/14/21 16:36	83-32-9	
Acenaphthylene	587J	ug/kg	842	106	20	09/14/21 08:41	09/14/21 16:36	208-96-8	
Anthracene	1340	ug/kg	842	104	20	09/14/21 08:41	09/14/21 16:36	120-12-7	
Benzo(a)anthracene	2750	ug/kg	842	109	20	09/14/21 08:41	09/14/21 16:36	56-55-3	
Benzo(a)pyrene	2890	ug/kg	842	95.7	20	09/14/21 08:41	09/14/21 16:36	50-32-8	
Benzo(b)fluoranthene	3730	ug/kg	842	117	20	09/14/21 08:41	09/14/21 16:36	205-99-2	
Benzo(g,h,i)perylene	1820	ug/kg	842	148	20	09/14/21 08:41	09/14/21 16:36	191-24-2	
Benzo(k)fluoranthene	1440	ug/kg	842	108	20	09/14/21 08:41	09/14/21 16:36	207-08-9	
Chrysene	3410	ug/kg	842	159	20	09/14/21 08:41	09/14/21 16:36	218-01-9	
Dibenz(a,h)anthracene	369J	ug/kg	842	117	20	09/14/21 08:41	09/14/21 16:36	53-70-3	
Fluoranthene	6800	ug/kg	842	99.6	20	09/14/21 08:41	09/14/21 16:36	206-44-0	

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221011**      **Lab ID: 40232753008**      Collected: 09/02/21 13:20      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Fluorene	<b>587J</b>	ug/kg	842	101	20	09/14/21 08:41	09/14/21 16:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>1450</b>	ug/kg	842	175	20	09/14/21 08:41	09/14/21 16:36	193-39-5	
2-Methylnaphthalene	<b>793J</b>	ug/kg	842	123	20	09/14/21 08:41	09/14/21 16:36	91-57-6	
Naphthalene	<b>751J</b>	ug/kg	842	82.0	20	09/14/21 08:41	09/14/21 16:36	91-20-3	
Phenanthrene	<b>4420</b>	ug/kg	842	96.4	20	09/14/21 08:41	09/14/21 16:36	85-01-8	
Pyrene	<b>5440</b>	ug/kg	842	124	20	09/14/21 08:41	09/14/21 16:36	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	57	%	36-86		20	09/14/21 08:41	09/14/21 16:36	321-60-8	
Terphenyl-d14 (S)	60	%	41-97		20	09/14/21 08:41	09/14/21 16:36	1718-51-0	
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<b>&lt;48.1</b>	ug/kg	80.9	48.1	1	09/08/21 08:15	09/08/21 18:45	71-43-2	
Ethylbenzene	<b>&lt;48.1</b>	ug/kg	202	48.1	1	09/08/21 08:15	09/08/21 18:45	100-41-4	
Toluene	<b>&lt;51.0</b>	ug/kg	202	51.0	1	09/08/21 08:15	09/08/21 18:45	108-88-3	
1,2,4-Trimethylbenzene	<b>787</b>	ug/kg	202	60.3	1	09/08/21 08:15	09/08/21 18:45	95-63-6	
1,3,5-Trimethylbenzene	<b>292</b>	ug/kg	202	65.1	1	09/08/21 08:15	09/08/21 18:45	108-67-8	
Xylene (Total)	<b>265J</b>	ug/kg	607	146	1	09/08/21 08:15	09/08/21 18:45	1330-20-7	
m&p-Xylene	<b>159J</b>	ug/kg	405	85.4	1	09/08/21 08:15	09/08/21 18:45	179601-23-1	
o-Xylene	<b>106J</b>	ug/kg	202	60.7	1	09/08/21 08:15	09/08/21 18:45	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	121	%	66-153		1	09/08/21 08:15	09/08/21 18:45	460-00-4	
Toluene-d8 (S)	137	%	67-159		1	09/08/21 08:15	09/08/21 18:45	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	145	%	82-158		1	09/08/21 08:15	09/08/21 18:45	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	<b>60.4</b>	%	0.10	0.10	1		09/07/21 14:37		

**Sample: 090221012**      **Lab ID: 40232753009**      Collected: 09/02/21 13:25      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Aluminum	<b>9200</b>	mg/kg	487	146	6.667	09/08/21 06:39	09/14/21 13:07	7429-90-5	
Antimony	<b>0.41J</b>	mg/kg	1.2	0.31	6.667	09/08/21 06:39	09/14/21 13:07	7440-36-0	D3
Arsenic	<b>3.0</b>	mg/kg	1.6	0.49	6.667	09/08/21 06:39	09/14/21 13:07	7440-38-2	
Barium	<b>52.9</b>	mg/kg	1.6	0.49	6.667	09/08/21 06:39	09/14/21 13:07	7440-39-3	
Cadmium	<b>0.40J</b>	mg/kg	1.2	0.18	6.667	09/08/21 06:39	09/14/21 13:07	7440-43-9	D3
Chromium	<b>22.5</b>	mg/kg	3.8	1.1	6.667	09/08/21 06:39	09/14/21 13:07	7440-47-3	
Copper	<b>31.2</b>	mg/kg	3.3	0.99	6.667	09/08/21 06:39	09/14/21 13:07	7440-50-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221012**      **Lab ID: 40232753009**      Collected: 09/02/21 13:25      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Iron	<b>15500</b>	mg/kg	309	90.2	6.667	09/08/21 06:39	09/14/21 13:07	7439-89-6	
Lead	<b>26.5</b>	mg/kg	1.2	0.34	6.667	09/08/21 06:39	09/14/21 13:07	7439-92-1	
Manganese	<b>292</b>	mg/kg	3.4	1.0	6.667	09/08/21 06:39	09/14/21 13:07	7439-96-5	
Nickel	<b>14.3</b>	mg/kg	1.6	0.49	6.667	09/08/21 06:39	09/14/21 13:07	7440-02-0	
Selenium	<b>1.2J</b>	mg/kg	1.2	0.34	6.667	09/08/21 06:39	09/14/21 13:07	7782-49-2	D3
Silver	<b>0.25J</b>	mg/kg	0.62	0.18	6.667	09/08/21 06:39	09/14/21 13:07	7440-22-4	D3
Vanadium	<b>22.6</b>	mg/kg	1.6	0.47	6.667	09/08/21 06:39	09/14/21 13:07	7440-62-2	
Zinc	<b>137</b>	mg/kg	43.1	12.9	6.667	09/08/21 06:39	09/14/21 13:07	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<b>0.069</b>	mg/kg	0.062	0.018	1	09/16/21 09:11	09/17/21 08:46	7439-97-6	
<b>8270E MSSV FULL LIST MICROWAVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
2,4-Dimethylphenol	<b>&lt;257</b>	ug/kg	856	257	4	09/14/21 10:35	09/15/21 11:56	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;236</b>	ug/kg	787	236	4	09/14/21 10:35	09/15/21 11:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;238</b>	ug/kg	794	238	4	09/14/21 10:35	09/15/21 11:56		
Phenol	<b>&lt;308</b>	ug/kg	1030	308	4	09/14/21 10:35	09/15/21 11:56	108-95-2	D3
<b>Surrogates</b>									
Phenol-d6 (S)	64	%	14-104		4	09/14/21 10:35	09/15/21 11:56	13127-88-3	
2-Fluorophenol (S)	71	%	10-112		4	09/14/21 10:35	09/15/21 11:56	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-128		4	09/14/21 10:35	09/15/21 11:56	118-79-6	
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>2310</b>	ug/kg	1300	169	40	09/14/21 08:41	09/14/21 16:53	83-32-9	
Acenaphthylene	<b>691J</b>	ug/kg	1300	164	40	09/14/21 08:41	09/14/21 16:53	208-96-8	
Anthracene	<b>4170</b>	ug/kg	1300	161	40	09/14/21 08:41	09/14/21 16:53	120-12-7	
Benzo(a)anthracene	<b>9620</b>	ug/kg	1300	168	40	09/14/21 08:41	09/14/21 16:53	56-55-3	
Benzo(a)pyrene	<b>9160</b>	ug/kg	1300	148	40	09/14/21 08:41	09/14/21 16:53	50-32-8	
Benzo(b)fluoranthene	<b>13200</b>	ug/kg	1300	181	40	09/14/21 08:41	09/14/21 16:53	205-99-2	
Benzo(g,h,i)perylene	<b>6360</b>	ug/kg	1300	228	40	09/14/21 08:41	09/14/21 16:53	191-24-2	
Benzo(k)fluoranthene	<b>4430</b>	ug/kg	1300	166	40	09/14/21 08:41	09/14/21 16:53	207-08-9	
Chrysene	<b>11800</b>	ug/kg	1300	245	40	09/14/21 08:41	09/14/21 16:53	218-01-9	
Dibenz(a,h)anthracene	<b>1640</b>	ug/kg	1300	180	40	09/14/21 08:41	09/14/21 16:53	53-70-3	
Fluoranthene	<b>26700</b>	ug/kg	1300	154	40	09/14/21 08:41	09/14/21 16:53	206-44-0	
Fluorene	<b>2530</b>	ug/kg	1300	156	40	09/14/21 08:41	09/14/21 16:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>5420</b>	ug/kg	1300	271	40	09/14/21 08:41	09/14/21 16:53	193-39-5	
2-Methylnaphthalene	<b>761J</b>	ug/kg	1300	190	40	09/14/21 08:41	09/14/21 16:53	91-57-6	
Naphthalene	<b>1970</b>	ug/kg	1300	127	40	09/14/21 08:41	09/14/21 16:53	91-20-3	
Phenanthrene	<b>22600</b>	ug/kg	1300	149	40	09/14/21 08:41	09/14/21 16:53	85-01-8	
Pyrene	<b>20400</b>	ug/kg	1300	191	40	09/14/21 08:41	09/14/21 16:53	129-00-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221012**      **Lab ID: 40232753009**      Collected: 09/02/21 13:25      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546 Pace Analytical Services - Green Bay									
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	57	%	36-86		40	09/14/21 08:41	09/14/21 16:53	321-60-8	
Terphenyl-d14 (S)	54	%	41-97		40	09/14/21 08:41	09/14/21 16:53	1718-51-0	
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay									
Benzene	<34.4	ug/kg	57.8	34.4	1	09/09/21 09:15	09/10/21 12:28	71-43-2	
Ethylbenzene	<34.4	ug/kg	145	34.4	1	09/09/21 09:15	09/10/21 12:28	100-41-4	
Toluene	<36.4	ug/kg	145	36.4	1	09/09/21 09:15	09/10/21 12:28	108-88-3	
1,2,4-Trimethylbenzene	192	ug/kg	145	43.1	1	09/09/21 09:15	09/10/21 12:28	95-63-6	
1,3,5-Trimethylbenzene	66.1J	ug/kg	145	46.6	1	09/09/21 09:15	09/10/21 12:28	108-67-8	
Xylene (Total)	<104	ug/kg	434	104	1	09/09/21 09:15	09/10/21 12:28	1330-20-7	
m&p-Xylene	<61.0	ug/kg	289	61.0	1	09/09/21 09:15	09/10/21 12:28	179601-23-1	
o-Xylene	<43.4	ug/kg	145	43.4	1	09/09/21 09:15	09/10/21 12:28	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	131	%	66-153		1	09/09/21 09:15	09/10/21 12:28	460-00-4	
Toluene-d8 (S)	146	%	67-159		1	09/09/21 09:15	09/10/21 12:28	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	145	%	82-158		1	09/09/21 09:15	09/10/21 12:28	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	48.6	%	0.10	0.10	1		09/07/21 14:38		

**Sample: 090221013**      **Lab ID: 40232753010**      Collected: 09/02/21 14:40      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Aluminum	6540	mg/kg	442	133	6.667	09/08/21 06:39	09/14/21 13:14	7429-90-5	
Antimony	0.52J	mg/kg	1.1	0.28	6.667	09/08/21 06:39	09/14/21 13:14	7440-36-0	D3
Arsenic	3.4	mg/kg	1.5	0.44	6.667	09/08/21 06:39	09/14/21 13:14	7440-38-2	
Barium	44.8	mg/kg	1.5	0.44	6.667	09/08/21 06:39	09/14/21 13:14	7440-39-3	
Cadmium	1.7	mg/kg	1.1	0.16	6.667	09/08/21 06:39	09/14/21 13:14	7440-43-9	
Chromium	64.4	mg/kg	3.4	1.0	6.667	09/08/21 06:39	09/14/21 13:14	7440-47-3	
Copper	31.2	mg/kg	3.0	0.90	6.667	09/08/21 06:39	09/14/21 13:14	7440-50-8	
Iron	16300	mg/kg	280	81.9	6.667	09/08/21 06:39	09/14/21 13:14	7439-89-6	
Lead	316	mg/kg	1.1	0.31	6.667	09/08/21 06:39	09/14/21 13:14	7439-92-1	
Manganese	286	mg/kg	3.1	0.93	6.667	09/08/21 06:39	09/14/21 13:14	7439-96-5	
Nickel	12.3	mg/kg	1.5	0.44	6.667	09/08/21 06:39	09/14/21 13:14	7440-02-0	
Selenium	0.91J	mg/kg	1.1	0.31	6.667	09/08/21 06:39	09/14/21 13:14	7782-49-2	D3
Silver	0.40J	mg/kg	0.56	0.16	6.667	09/08/21 06:39	09/14/21 13:14	7440-22-4	D3

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

**Sample: 090221013**      **Lab ID: 40232753010**      Collected: 09/02/21 14:40      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Vanadium	<b>42.5</b>	mg/kg	1.4	0.43	6.667	09/08/21 06:39	09/14/21 13:14	7440-62-2	
Zinc	<b>189</b>	mg/kg	39.1	11.7	6.667	09/08/21 06:39	09/14/21 13:14	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<b>0.17</b>	mg/kg	0.057	0.016	1	09/16/21 09:11	09/17/21 08:49	7439-97-6	
<b>8270E MSSV FULL LIST MICROWAVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
2,4-Dimethylphenol	<b>&lt;2430</b>	ug/kg	8080	2430	40	09/14/21 10:35	09/15/21 12:17	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;2230</b>	ug/kg	7430	2230	40	09/14/21 10:35	09/15/21 12:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;2250</b>	ug/kg	7490	2250	40	09/14/21 10:35	09/15/21 12:17		
Phenol	<b>&lt;2910</b>	ug/kg	9700	2910	40	09/14/21 10:35	09/15/21 12:17	108-95-2	D3
<b>Surrogates</b>									
Phenol-d6 (S)	0	%	14-104		40	09/14/21 10:35	09/15/21 12:17	13127-88-3	S4
2-Fluorophenol (S)	0	%	10-112		40	09/14/21 10:35	09/15/21 12:17	367-12-4	S4
2,4,6-Tribromophenol (S)	0	%	10-128		40	09/14/21 10:35	09/15/21 12:17	118-79-6	S4
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>23100</b>	ug/kg	12200	1590	400	09/14/21 08:41	09/15/21 10:32	83-32-9	
Acenaphthylene	<b>11000J</b>	ug/kg	12200	1540	400	09/14/21 08:41	09/15/21 10:32	208-96-8	
Anthracene	<b>37200</b>	ug/kg	12200	1520	400	09/14/21 08:41	09/15/21 10:32	120-12-7	
Benzo(a)anthracene	<b>56000</b>	ug/kg	12200	1580	400	09/14/21 08:41	09/15/21 10:32	56-55-3	
Benzo(a)pyrene	<b>59100</b>	ug/kg	12200	1390	400	09/14/21 08:41	09/15/21 10:32	50-32-8	
Benzo(b)fluoranthene	<b>74900</b>	ug/kg	12200	1700	400	09/14/21 08:41	09/15/21 10:32	205-99-2	
Benzo(g,h,i)perylene	<b>44000</b>	ug/kg	12200	2150	400	09/14/21 08:41	09/15/21 10:32	191-24-2	
Benzo(k)fluoranthene	<b>31000</b>	ug/kg	12200	1560	400	09/14/21 08:41	09/15/21 10:32	207-08-9	
Chrysene	<b>76900</b>	ug/kg	12200	2310	400	09/14/21 08:41	09/15/21 10:32	218-01-9	
Dibenz(a,h)anthracene	<b>10700J</b>	ug/kg	12200	1690	400	09/14/21 08:41	09/15/21 10:32	53-70-3	
Fluoranthene	<b>167000</b>	ug/kg	12200	1450	400	09/14/21 08:41	09/15/21 10:32	206-44-0	
Fluorene	<b>24800</b>	ug/kg	12200	1470	400	09/14/21 08:41	09/15/21 10:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>33800</b>	ug/kg	12200	2550	400	09/14/21 08:41	09/15/21 10:32	193-39-5	
2-Methylnaphthalene	<b>&lt;1790</b>	ug/kg	12200	1790	400	09/14/21 08:41	09/15/21 10:32	91-57-6	
Naphthalene	<b>6300J</b>	ug/kg	12200	1190	400	09/14/21 08:41	09/15/21 10:32	91-20-3	
Phenanthrene	<b>177000</b>	ug/kg	12200	1400	400	09/14/21 08:41	09/15/21 10:32	85-01-8	
Pyrene	<b>132000</b>	ug/kg	12200	1800	400	09/14/21 08:41	09/15/21 10:32	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	36-86		400	09/14/21 08:41	09/15/21 10:32	321-60-8	S4
Terphenyl-d14 (S)	0	%	41-97		400	09/14/21 08:41	09/15/21 10:32	1718-51-0	S4
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<b>&lt;31.8</b>	ug/kg	53.4	31.8	1	09/09/21 09:15	09/09/21 17:25	71-43-2	

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221013**      **Lab ID: 40232753010**      Collected: 09/02/21 14:40      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay									
Ethylbenzene	<31.8	ug/kg	133	31.8	1	09/09/21 09:15	09/09/21 17:25	100-41-4	
Toluene	<33.6	ug/kg	133	33.6	1	09/09/21 09:15	09/09/21 17:25	108-88-3	
1,2,4-Trimethylbenzene	693	ug/kg	133	39.8	1	09/09/21 09:15	09/09/21 17:25	95-63-6	
1,3,5-Trimethylbenzene	295	ug/kg	133	43.0	1	09/09/21 09:15	09/09/21 17:25	108-67-8	
Xylene (Total)	<96.3	ug/kg	400	96.3	1	09/09/21 09:15	09/09/21 17:25	1330-20-7	
m&p-Xylene	59.7J	ug/kg	267	56.3	1	09/09/21 09:15	09/09/21 17:25	179601-23-1	
o-Xylene	<40.0	ug/kg	133	40.0	1	09/09/21 09:15	09/09/21 17:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	122	%	66-153		1	09/09/21 09:15	09/09/21 17:25	460-00-4	
Toluene-d8 (S)	151	%	67-159		1	09/09/21 09:15	09/09/21 17:25	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	150	%	82-158		1	09/09/21 09:15	09/09/21 17:25	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	45.5	%	0.10	0.10	1		09/07/21 14:38		

**Sample: 090221014**      **Lab ID: 40232753011**      Collected: 09/02/21 15:00      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Aluminum	12800	mg/kg	570	171	6.667	09/08/21 06:39	09/14/21 13:22	7429-90-5	
Antimony	<0.36	mg/kg	1.4	0.36	6.667	09/08/21 06:39	09/14/21 13:22	7440-36-0	D3
Arsenic	3.2	mg/kg	1.9	0.57	6.667	09/08/21 06:39	09/14/21 13:22	7440-38-2	
Barium	70.6	mg/kg	1.9	0.57	6.667	09/08/21 06:39	09/14/21 13:22	7440-39-3	
Cadmium	0.41J	mg/kg	1.4	0.21	6.667	09/08/21 06:39	09/14/21 13:22	7440-43-9	D3
Chromium	27.6	mg/kg	4.4	1.3	6.667	09/08/21 06:39	09/14/21 13:22	7440-47-3	
Copper	34.6	mg/kg	3.9	1.2	6.667	09/08/21 06:39	09/14/21 13:22	7440-50-8	
Iron	21000	mg/kg	362	106	6.667	09/08/21 06:39	09/14/21 13:22	7439-89-6	
Lead	30.9	mg/kg	1.4	0.39	6.667	09/08/21 06:39	09/14/21 13:22	7439-92-1	
Manganese	395	mg/kg	4.0	1.2	6.667	09/08/21 06:39	09/14/21 13:22	7439-96-5	
Nickel	18.1	mg/kg	1.9	0.57	6.667	09/08/21 06:39	09/14/21 13:22	7440-02-0	
Selenium	1.2J	mg/kg	1.4	0.40	6.667	09/08/21 06:39	09/14/21 13:22	7782-49-2	D3
Silver	<0.21	mg/kg	0.72	0.21	6.667	09/08/21 06:39	09/14/21 13:22	7440-22-4	D3
Vanadium	28.4	mg/kg	1.8	0.55	6.667	09/08/21 06:39	09/14/21 13:22	7440-62-2	
Zinc	145	mg/kg	50.5	15.1	6.667	09/08/21 06:39	09/14/21 13:22	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471 Pace Analytical Services - Green Bay									
Mercury	0.18	mg/kg	0.079	0.023	1	09/16/21 09:11	09/17/21 08:51	7439-97-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221014**      **Lab ID: 40232753011**      Collected: 09/02/21 15:00      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**8270E MSSV FULL LIST MICROWAVE**      Analytical Method: EPA 8270E      Preparation Method: EPA 3546  
Pace Analytical Services - Green Bay

2,4-Dimethylphenol	<313	ug/kg	1040	313	4	09/14/21 10:35	09/15/21 12:39	105-67-9	
2-Methylphenol(o-Cresol)	<288	ug/kg	959	288	4	09/14/21 10:35	09/15/21 12:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	<290	ug/kg	968	290	4	09/14/21 10:35	09/15/21 12:39		
Phenol	<376	ug/kg	1250	376	4	09/14/21 10:35	09/15/21 12:39	108-95-2	D3
<b>Surrogates</b>									
Phenol-d6 (S)	62	%	14-104		4	09/14/21 10:35	09/15/21 12:39	13127-88-3	
2-Fluorophenol (S)	61	%	10-112		4	09/14/21 10:35	09/15/21 12:39	367-12-4	
2,4,6-Tribromophenol (S)	67	%	10-128		4	09/14/21 10:35	09/15/21 12:39	118-79-6	

**8270E MSSV PAH by SIM**      Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3546  
Pace Analytical Services - Green Bay

Acenaphthene	248J	ug/kg	793	103	20	09/14/21 08:41	09/15/21 10:49	83-32-9	
Acenaphthylene	557J	ug/kg	793	100	20	09/14/21 08:41	09/15/21 10:49	208-96-8	
Anthracene	862	ug/kg	793	98.4	20	09/14/21 08:41	09/15/21 10:49	120-12-7	
Benzo(a)anthracene	2160	ug/kg	793	103	20	09/14/21 08:41	09/15/21 10:49	56-55-3	
Benzo(a)pyrene	2240	ug/kg	793	90.1	20	09/14/21 08:41	09/15/21 10:49	50-32-8	
Benzo(b)fluoranthene	2820	ug/kg	793	110	20	09/14/21 08:41	09/15/21 10:49	205-99-2	
Benzo(g,h,i)perylene	1700	ug/kg	793	139	20	09/14/21 08:41	09/15/21 10:49	191-24-2	
Benzo(k)fluoranthene	1100	ug/kg	793	101	20	09/14/21 08:41	09/15/21 10:49	207-08-9	
Chrysene	2600	ug/kg	793	150	20	09/14/21 08:41	09/15/21 10:49	218-01-9	
Dibenz(a,h)anthracene	341J	ug/kg	793	110	20	09/14/21 08:41	09/15/21 10:49	53-70-3	
Fluoranthene	5010	ug/kg	793	93.9	20	09/14/21 08:41	09/15/21 10:49	206-44-0	
Fluorene	324J	ug/kg	793	95.1	20	09/14/21 08:41	09/15/21 10:49	86-73-7	
Indeno(1,2,3-cd)pyrene	1390	ug/kg	793	165	20	09/14/21 08:41	09/15/21 10:49	193-39-5	
2-Methylnaphthalene	171J	ug/kg	793	116	20	09/14/21 08:41	09/15/21 10:49	91-57-6	
Naphthalene	250J	ug/kg	793	77.3	20	09/14/21 08:41	09/15/21 10:49	91-20-3	
Phenanthrene	2770	ug/kg	793	90.8	20	09/14/21 08:41	09/15/21 10:49	85-01-8	
Pyrene	4170	ug/kg	793	117	20	09/14/21 08:41	09/15/21 10:49	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	29	%	36-86		20	09/14/21 08:41	09/15/21 10:49	321-60-8	S4
Terphenyl-d14 (S)	33	%	41-97		20	09/14/21 08:41	09/15/21 10:49	1718-51-0	S4

**8260 MSV Med Level Short List**      Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B  
Pace Analytical Services - Green Bay

Benzene	<44.6	ug/kg	75.0	44.6	1	09/10/21 09:30	09/10/21 12:48	71-43-2	
Ethylbenzene	<44.6	ug/kg	187	44.6	1	09/10/21 09:30	09/10/21 12:48	100-41-4	
Toluene	<47.2	ug/kg	187	47.2	1	09/10/21 09:30	09/10/21 12:48	108-88-3	
1,2,4-Trimethylbenzene	<55.8	ug/kg	187	55.8	1	09/10/21 09:30	09/10/21 12:48	95-63-6	
1,3,5-Trimethylbenzene	<60.3	ug/kg	187	60.3	1	09/10/21 09:30	09/10/21 12:48	108-67-8	
Xylene (Total)	<135	ug/kg	562	135	1	09/10/21 09:30	09/10/21 12:48	1330-20-7	
m&p-Xylene	<79.1	ug/kg	375	79.1	1	09/10/21 09:30	09/10/21 12:48	179601-23-1	
o-Xylene	<56.2	ug/kg	187	56.2	1	09/10/21 09:30	09/10/21 12:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	154	%	66-153		1	09/10/21 09:30	09/10/21 12:48	460-00-4	S3

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221014**      **Lab ID: 40232753011**      Collected: 09/02/21 15:00      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay									
<b>Surrogates</b>									
Toluene-d8 (S)	175	%	67-159		1	09/10/21 09:30	09/10/21 12:48	2037-26-5	S3
1,2-Dichlorobenzene-d4 (S)	180	%	82-158		1	09/10/21 09:30	09/10/21 12:48	2199-69-1	S3
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	<b>57.9</b>	%	0.10	0.10	1		09/07/21 14:38		

**Sample: 090221015**      **Lab ID: 40232753012**      Collected: 09/02/21 16:40      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Aluminum	<b>14600</b>	mg/kg	622	187	6.667	09/08/21 06:39	09/14/21 13:29	7429-90-5	
Antimony	<b>0.40J</b>	mg/kg	1.6	0.39	6.667	09/08/21 06:39	09/14/21 13:29	7440-36-0	D3
Arsenic	<b>3.2</b>	mg/kg	2.1	0.63	6.667	09/08/21 06:39	09/14/21 13:29	7440-38-2	
Barium	<b>73.7</b>	mg/kg	2.1	0.62	6.667	09/08/21 06:39	09/14/21 13:29	7440-39-3	
Cadmium	<b>0.36J</b>	mg/kg	1.6	0.23	6.667	09/08/21 06:39	09/14/21 13:29	7440-43-9	D3
Chromium	<b>31.1</b>	mg/kg	4.8	1.4	6.667	09/08/21 06:39	09/14/21 13:29	7440-47-3	
Copper	<b>36.7</b>	mg/kg	4.2	1.3	6.667	09/08/21 06:39	09/14/21 13:29	7440-50-8	
Iron	<b>21000</b>	mg/kg	395	115	6.667	09/08/21 06:39	09/14/21 13:29	7439-89-6	
Lead	<b>41.1</b>	mg/kg	1.6	0.43	6.667	09/08/21 06:39	09/14/21 13:29	7439-92-1	
Manganese	<b>352</b>	mg/kg	4.3	1.3	6.667	09/08/21 06:39	09/14/21 13:29	7439-96-5	
Nickel	<b>18.4</b>	mg/kg	2.1	0.62	6.667	09/08/21 06:39	09/14/21 13:29	7440-02-0	
Selenium	<b>1.1J</b>	mg/kg	1.6	0.43	6.667	09/08/21 06:39	09/14/21 13:29	7782-49-2	D3
Silver	<b>&lt;0.23</b>	mg/kg	0.79	0.23	6.667	09/08/21 06:39	09/14/21 13:29	7440-22-4	D3
Vanadium	<b>31.3</b>	mg/kg	2.0	0.60	6.667	09/08/21 06:39	09/14/21 13:29	7440-62-2	
Zinc	<b>133</b>	mg/kg	55.1	16.5	6.667	09/08/21 06:39	09/14/21 13:29	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471 Pace Analytical Services - Green Bay									
Mercury	<b>0.061J</b>	mg/kg	0.084	0.024	1	09/16/21 09:11	09/17/21 08:53	7439-97-6	
<b>8270E MSSV FULL LIST MICROWAVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546 Pace Analytical Services - Green Bay									
2,4-Dimethylphenol	<b>&lt;321</b>	ug/kg	1070	321	4	09/14/21 10:35	09/15/21 13:00	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;295</b>	ug/kg	982	295	4	09/14/21 10:35	09/15/21 13:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;297</b>	ug/kg	990	297	4	09/14/21 10:35	09/15/21 13:00		
Phenol	<b>&lt;385</b>	ug/kg	1280	385	4	09/14/21 10:35	09/15/21 13:00	108-95-2	D3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

**Sample: 090221015**      **Lab ID: 40232753012**      Collected: 09/02/21 16:40      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**8270E MSSV FULL LIST MICROWAVE** Analytical Method: EPA 8270E Preparation Method: EPA 3546  
Pace Analytical Services - Green Bay

**Surrogates**

Phenol-d6 (S)	56	%	14-104		4	09/14/21 10:35	09/15/21 13:00	13127-88-3	
2-Fluorophenol (S)	57	%	10-112		4	09/14/21 10:35	09/15/21 13:00	367-12-4	
2,4,6-Tribromophenol (S)	61	%	10-128		4	09/14/21 10:35	09/15/21 13:00	118-79-6	

**8270E MSSV PAH by SIM** Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546  
Pace Analytical Services - Green Bay

Acenaphthene	<b>391J</b>	ug/kg	812	105	20	09/14/21 08:41	09/14/21 15:44	83-32-9	M1, R1
Acenaphthylene	<b>504J</b>	ug/kg	812	102	20	09/14/21 08:41	09/14/21 15:44	208-96-8	M1
Anthracene	<b>1070</b>	ug/kg	812	101	20	09/14/21 08:41	09/14/21 15:44	120-12-7	M1
Benzo(a)anthracene	<b>1890</b>	ug/kg	812	105	20	09/14/21 08:41	09/14/21 15:44	56-55-3	M1
Benzo(a)pyrene	<b>2020</b>	ug/kg	812	92.2	20	09/14/21 08:41	09/14/21 15:44	50-32-8	M1
Benzo(b)fluoranthene	<b>2690</b>	ug/kg	812	113	20	09/14/21 08:41	09/14/21 15:44	205-99-2	M1
Benzo(g,h,i)perylene	<b>1520</b>	ug/kg	812	142	20	09/14/21 08:41	09/14/21 15:44	191-24-2	M1
Benzo(k)fluoranthene	<b>968</b>	ug/kg	812	104	20	09/14/21 08:41	09/14/21 15:44	207-08-9	M1
Chrysene	<b>2450</b>	ug/kg	812	153	20	09/14/21 08:41	09/14/21 15:44	218-01-9	M1
Dibenz(a,h)anthracene	<b>295J</b>	ug/kg	812	112	20	09/14/21 08:41	09/14/21 15:44	53-70-3	
Fluoranthene	<b>4760</b>	ug/kg	812	96.1	20	09/14/21 08:41	09/14/21 15:44	206-44-0	M1
Fluorene	<b>535J</b>	ug/kg	812	97.3	20	09/14/21 08:41	09/14/21 15:44	86-73-7	M1
Indeno(1,2,3-cd)pyrene	<b>1200</b>	ug/kg	812	169	20	09/14/21 08:41	09/14/21 15:44	193-39-5	M1
2-Methylnaphthalene	<b>1060</b>	ug/kg	812	119	20	09/14/21 08:41	09/14/21 15:44	91-57-6	M1, R1
Naphthalene	<b>1310</b>	ug/kg	812	79.1	20	09/14/21 08:41	09/14/21 15:44	91-20-3	M1
Phenanthrene	<b>3680</b>	ug/kg	812	93.0	20	09/14/21 08:41	09/14/21 15:44	85-01-8	M1
Pyrene	<b>4080</b>	ug/kg	812	119	20	09/14/21 08:41	09/14/21 15:44	129-00-0	M1

**Surrogates**

2-Fluorobiphenyl (S)	53	%	36-86		20	09/14/21 08:41	09/14/21 15:44	321-60-8	
Terphenyl-d14 (S)	58	%	41-97		20	09/14/21 08:41	09/14/21 15:44	1718-51-0	

**8260 MSV Med Level Short List** Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B  
Pace Analytical Services - Green Bay

Benzene	<b>&lt;45.9</b>	ug/kg	77.2	45.9	1	09/10/21 09:30	09/10/21 13:07	71-43-2	
Ethylbenzene	<b>61.2J</b>	ug/kg	193	45.9	1	09/10/21 09:30	09/10/21 13:07	100-41-4	
Toluene	<b>78.8J</b>	ug/kg	193	48.6	1	09/10/21 09:30	09/10/21 13:07	108-88-3	
1,2,4-Trimethylbenzene	<b>266</b>	ug/kg	193	57.5	1	09/10/21 09:30	09/10/21 13:07	95-63-6	
1,3,5-Trimethylbenzene	<b>111J</b>	ug/kg	193	62.1	1	09/10/21 09:30	09/10/21 13:07	108-67-8	
Xylene (Total)	<b>&lt;139</b>	ug/kg	579	139	1	09/10/21 09:30	09/10/21 13:07	1330-20-7	
m&p-Xylene	<b>89.9J</b>	ug/kg	386	81.4	1	09/10/21 09:30	09/10/21 13:07	179601-23-1	
o-Xylene	<b>&lt;57.9</b>	ug/kg	193	57.9	1	09/10/21 09:30	09/10/21 13:07	95-47-6	

**Surrogates**

4-Bromofluorobenzene (S)	156	%	66-153		1	09/10/21 09:30	09/10/21 13:07	460-00-4	S1
Toluene-d8 (S)	169	%	67-159		1	09/10/21 09:30	09/10/21 13:07	2037-26-5	S1
1,2-Dichlorobenzene-d4 (S)	170	%	82-158		1	09/10/21 09:30	09/10/21 13:07	2199-69-1	S1

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221015**      **Lab ID: 40232753012**      Collected: 09/02/21 16:40      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	<b>58.8</b>	%	0.10	0.10	1		09/07/21 14:38		

**Sample: 090221016**      **Lab ID: 40232753013**      Collected: 09/02/21 16:45      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Aluminum	<b>15600</b>	mg/kg	641	192	6.667	09/08/21 06:39	09/14/21 13:36	7429-90-5	
Antimony	<b>&lt;0.40</b>	mg/kg	1.6	0.40	6.667	09/08/21 06:39	09/14/21 13:36	7440-36-0	D3
Arsenic	<b>3.6</b>	mg/kg	2.1	0.64	6.667	09/08/21 06:39	09/14/21 13:36	7440-38-2	
Barium	<b>81.1</b>	mg/kg	2.1	0.64	6.667	09/08/21 06:39	09/14/21 13:36	7440-39-3	
Cadmium	<b>0.35J</b>	mg/kg	1.6	0.24	6.667	09/08/21 06:39	09/14/21 13:36	7440-43-9	D3
Chromium	<b>34.5</b>	mg/kg	4.9	1.5	6.667	09/08/21 06:39	09/14/21 13:36	7440-47-3	
Copper	<b>38.5</b>	mg/kg	4.4	1.3	6.667	09/08/21 06:39	09/14/21 13:36	7440-50-8	
Iron	<b>22600</b>	mg/kg	407	119	6.667	09/08/21 06:39	09/14/21 13:36	7439-89-6	
Lead	<b>40.8</b>	mg/kg	1.6	0.44	6.667	09/08/21 06:39	09/14/21 13:36	7439-92-1	
Manganese	<b>384</b>	mg/kg	4.5	1.3	6.667	09/08/21 06:39	09/14/21 13:36	7439-96-5	
Nickel	<b>21.4</b>	mg/kg	2.1	0.64	6.667	09/08/21 06:39	09/14/21 13:36	7440-02-0	
Selenium	<b>1.3J</b>	mg/kg	1.6	0.44	6.667	09/08/21 06:39	09/14/21 13:36	7782-49-2	D3
Silver	<b>&lt;0.23</b>	mg/kg	0.81	0.23	6.667	09/08/21 06:39	09/14/21 13:36	7440-22-4	D3
Vanadium	<b>33.5</b>	mg/kg	2.1	0.62	6.667	09/08/21 06:39	09/14/21 13:36	7440-62-2	
Zinc	<b>134</b>	mg/kg	56.8	17.0	6.667	09/08/21 06:39	09/14/21 13:36	7440-66-6	

**7471 Mercury**      Analytical Method: EPA 7471      Preparation Method: EPA 7471

Pace Analytical Services - Green Bay

Mercury	<b>0.10</b>	mg/kg	0.089	0.025	1	09/16/21 09:11	09/17/21 08:56	7439-97-6	
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**8270E MSSV FULL LIST MICROWAVE**      Analytical Method: EPA 8270E      Preparation Method: EPA 3546

Pace Analytical Services - Green Bay

2,4-Dimethylphenol	<b>&lt;336</b>	ug/kg	1120	336	4	09/14/21 10:35	09/15/21 13:21	105-67-9	
2-Methylphenol(o-Cresol)	<b>&lt;309</b>	ug/kg	1030	309	4	09/14/21 10:35	09/15/21 13:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;312</b>	ug/kg	1040	312	4	09/14/21 10:35	09/15/21 13:21		
Phenol	<b>&lt;404</b>	ug/kg	1350	404	4	09/14/21 10:35	09/15/21 13:21	108-95-2	D3
<b>Surrogates</b>									
Phenol-d6 (S)	54	%	14-104		4	09/14/21 10:35	09/15/21 13:21	13127-88-3	
2-Fluorophenol (S)	54	%	10-112		4	09/14/21 10:35	09/15/21 13:21	367-12-4	
2,4,6-Tribromophenol (S)	54	%	10-128		4	09/14/21 10:35	09/15/21 13:21	118-79-6	

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### ANALYTICAL RESULTS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

**Sample: 090221016**      **Lab ID: 40232753013**      Collected: 09/02/21 16:45      Received: 09/03/21 11:52      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>538J</b>	ug/kg	851	110	20	09/14/21 08:41	09/15/21 15:11	83-32-9	
Acenaphthylene	<b>799J</b>	ug/kg	851	107	20	09/14/21 08:41	09/15/21 15:11	208-96-8	
Anthracene	<b>1510</b>	ug/kg	851	106	20	09/14/21 08:41	09/15/21 15:11	120-12-7	
Benzo(a)anthracene	<b>2910</b>	ug/kg	851	110	20	09/14/21 08:41	09/15/21 15:11	56-55-3	
Benzo(a)pyrene	<b>2960</b>	ug/kg	851	96.7	20	09/14/21 08:41	09/15/21 15:11	50-32-8	
Benzo(b)fluoranthene	<b>3680</b>	ug/kg	851	118	20	09/14/21 08:41	09/15/21 15:11	205-99-2	
Benzo(g,h,i)perylene	<b>1990</b>	ug/kg	851	149	20	09/14/21 08:41	09/15/21 15:11	191-24-2	
Benzo(k)fluoranthene	<b>1480</b>	ug/kg	851	109	20	09/14/21 08:41	09/15/21 15:11	207-08-9	
Chrysene	<b>3420</b>	ug/kg	851	161	20	09/14/21 08:41	09/15/21 15:11	218-01-9	
Dibenz(a,h)anthracene	<b>424J</b>	ug/kg	851	118	20	09/14/21 08:41	09/15/21 15:11	53-70-3	
Fluoranthene	<b>7170</b>	ug/kg	851	101	20	09/14/21 08:41	09/15/21 15:11	206-44-0	
Fluorene	<b>879</b>	ug/kg	851	102	20	09/14/21 08:41	09/15/21 15:11	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>1630</b>	ug/kg	851	177	20	09/14/21 08:41	09/15/21 15:11	193-39-5	
2-Methylnaphthalene	<b>1760</b>	ug/kg	851	125	20	09/14/21 08:41	09/15/21 15:11	91-57-6	
Naphthalene	<b>1460</b>	ug/kg	851	83.0	20	09/14/21 08:41	09/15/21 15:11	91-20-3	
Phenanthrene	<b>6000</b>	ug/kg	851	97.5	20	09/14/21 08:41	09/15/21 15:11	85-01-8	
Pyrene	<b>6080</b>	ug/kg	851	125	20	09/14/21 08:41	09/15/21 15:11	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	16	%	36-86		20	09/14/21 08:41	09/15/21 15:11	321-60-8	S4
Terphenyl-d14 (S)	21	%	41-97		20	09/14/21 08:41	09/15/21 15:11	1718-51-0	S4
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<b>&lt;48.8</b>	ug/kg	81.9	48.8	1	09/10/21 09:30	09/10/21 13:27	71-43-2	
Ethylbenzene	<b>60.6J</b>	ug/kg	205	48.8	1	09/10/21 09:30	09/10/21 13:27	100-41-4	
Toluene	<b>60.0J</b>	ug/kg	205	51.6	1	09/10/21 09:30	09/10/21 13:27	108-88-3	
1,2,4-Trimethylbenzene	<b>302</b>	ug/kg	205	61.0	1	09/10/21 09:30	09/10/21 13:27	95-63-6	
1,3,5-Trimethylbenzene	<b>131J</b>	ug/kg	205	66.0	1	09/10/21 09:30	09/10/21 13:27	108-67-8	
Xylene (Total)	<b>&lt;148</b>	ug/kg	615	148	1	09/10/21 09:30	09/10/21 13:27	1330-20-7	
m&p-Xylene	<b>95.4J</b>	ug/kg	410	86.4	1	09/10/21 09:30	09/10/21 13:27	179601-23-1	
o-Xylene	<b>&lt;61.5</b>	ug/kg	205	61.5	1	09/10/21 09:30	09/10/21 13:27	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	129	%	66-153		1	09/10/21 09:30	09/10/21 13:27	460-00-4	
Toluene-d8 (S)	132	%	67-159		1	09/10/21 09:30	09/10/21 13:27	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	142	%	82-158		1	09/10/21 09:30	09/10/21 13:27	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	<b>60.8</b>	%	0.10	0.10	1		09/07/21 14:38		

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

QC Batch:	395850	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40232753001, 40232753002, 40232753003, 40232753004, 40232753005, 40232753006, 40232753007, 40232753008, 40232753009, 40232753010, 40232753011, 40232753012, 40232753013

METHOD BLANK: 2283642 Matrix: Solid  
Associated Lab Samples: 40232753001, 40232753002, 40232753003, 40232753004, 40232753005, 40232753006, 40232753007, 40232753008, 40232753009, 40232753010, 40232753011, 40232753012, 40232753013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	09/17/21 08:14	

LABORATORY CONTROL SAMPLE: 2283643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.85	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2283644 2283645

Parameter	Units	40232753006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.16	1.4	1.4	1.5	1.5	98	100	85-115	3	20	

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

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QC Batch:	394941	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3050B	Analysis Description:	6020B MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40232753001, 40232753002, 40232753003, 40232753004, 40232753005, 40232753006, 40232753007, 40232753008, 40232753009, 40232753010, 40232753011, 40232753012, 40232753013

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METHOD BLANK: 2279001 Matrix: Solid

Associated Lab Samples: 40232753001, 40232753002, 40232753003, 40232753004, 40232753005, 40232753006, 40232753007, 40232753008, 40232753009, 40232753010, 40232753011, 40232753012, 40232753013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	<11.8	39.4	09/14/21 10:55	
Antimony	mg/kg	<0.025	0.10	09/14/21 10:55	
Arsenic	mg/kg	<0.040	0.13	09/14/21 10:55	
Barium	mg/kg	<0.039	0.13	09/14/21 10:55	
Cadmium	mg/kg	<0.015	0.10	09/14/21 10:55	
Chromium	mg/kg	<0.091	0.30	09/14/21 10:55	
Copper	mg/kg	<0.080	0.27	09/14/21 10:55	
Iron	mg/kg	<7.3	25.0	09/14/21 10:55	
Lead	mg/kg	<0.027	0.10	09/14/21 10:55	
Manganese	mg/kg	<0.083	0.28	09/14/21 10:55	
Nickel	mg/kg	<0.040	0.13	09/14/21 10:55	
Selenium	mg/kg	<0.027	0.10	09/14/21 10:55	
Silver	mg/kg	<0.014	0.050	09/14/21 10:55	
Vanadium	mg/kg	<0.038	0.13	09/14/21 10:55	
Zinc	mg/kg	<1.0	3.5	09/14/21 10:55	

LABORATORY CONTROL SAMPLE: 2279002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	1000	1040	104	80-120	
Antimony	mg/kg	25	27.2	109	80-120	
Arsenic	mg/kg	25	26.8	107	80-120	
Barium	mg/kg	25	25.4	102	80-120	
Cadmium	mg/kg	25	26.3	105	80-120	
Chromium	mg/kg	25	25.6	102	80-120	
Copper	mg/kg	25	25.7	103	80-120	
Iron	mg/kg	1000	1080	108	80-120	
Lead	mg/kg	25	25.9	104	80-120	
Manganese	mg/kg	25	25.1	100	80-120	
Nickel	mg/kg	25	25.7	103	80-120	
Selenium	mg/kg	25	26.6	106	80-120	
Silver	mg/kg	12.5	12.7	102	80-120	
Vanadium	mg/kg	25	25.7	103	80-120	
Zinc	mg/kg	25	26.6	107	80-120	

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279003												2279004	
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232753006 Result	Spike Conc.	Spike Conc.	MS Result								
Aluminum	mg/kg	9750	1640	1640	16800	18700	431	545	75-125	11	20	P6	
Antimony	mg/kg	0.92J	41.1	41.1	34.8	38.4	83	91	75-125	10	20		
Arsenic	mg/kg	4.6	41.1	41.1	46.7	46.5	103	102	75-125	0	20		
Barium	mg/kg	60.8	41.1	41.1	112	155	125	230	75-125	32	20	M0, R1	
Cadmium	mg/kg	0.96J	41.1	41.1	42.3	42.9	101	102	75-125	1	20		
Chromium	mg/kg	29.1	41.1	41.1	74.6	78.6	111	120	75-125	5	20		
Copper	mg/kg	51.9	41.1	41.1	75.9	82.6	58	75	75-125	8	20	M0	
Iron	mg/kg	22700	1640	1640	21200	21900	-94	-48	75-125	4	20	P6	
Lead	mg/kg	410	41.1	41.1	115	144	-718	-647	75-125	22	20	P6, R1	
Manganese	mg/kg	309	41.1	41.1	343	361	81	126	75-125	5	20	M0	
Nickel	mg/kg	19.7	41.1	41.1	58.2	59.0	94	96	75-125	1	20		
Selenium	mg/kg	1.2	41.1	41.1	43.6	43.1	103	102	75-125	1	20		
Silver	mg/kg	0.62	20.5	20.5	18.5	18.7	87	88	75-125	1	20		
Vanadium	mg/kg	26.9	41.1	41.1	73.0	76.6	112	121	75-125	5	20		
Zinc	mg/kg	539	41.1	41.1	406	295	-324	-595	75-125	32	20	P6, R1	

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

QC Batch: 395077 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40232753001, 40232753002, 40232753003, 40232753004, 40232753005, 40232753006, 40232753007, 40232753008

METHOD BLANK: 2279478 Matrix: Solid  
Associated Lab Samples: 40232753001, 40232753002, 40232753003, 40232753004, 40232753005, 40232753006, 40232753007, 40232753008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	09/08/21 09:35	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	09/08/21 09:35	
Benzene	ug/kg	<11.9	20.0	09/08/21 09:35	
Ethylbenzene	ug/kg	<11.9	50.0	09/08/21 09:35	
m&p-Xylene	ug/kg	<21.1	100	09/08/21 09:35	
o-Xylene	ug/kg	<15.0	50.0	09/08/21 09:35	
Toluene	ug/kg	<12.6	50.0	09/08/21 09:35	
Xylene (Total)	ug/kg	<36.1	150	09/08/21 09:35	
1,2-Dichlorobenzene-d4 (S)	%	101	82-158	09/08/21 09:35	
4-Bromofluorobenzene (S)	%	91	66-153	09/08/21 09:35	
Toluene-d8 (S)	%	107	67-159	09/08/21 09:35	

LABORATORY CONTROL SAMPLE: 2279479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2430	97	70-130	
Ethylbenzene	ug/kg	2500	2580	103	78-120	
m&p-Xylene	ug/kg	5000	4950	99	70-130	
o-Xylene	ug/kg	2500	2460	98	70-130	
Toluene	ug/kg	2500	2480	99	76-120	
Xylene (Total)	ug/kg	7500	7410	99	70-130	
1,2-Dichlorobenzene-d4 (S)	%			93	82-158	
4-Bromofluorobenzene (S)	%			94	66-153	
Toluene-d8 (S)	%			100	67-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279480 2279481

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40232753006 Result	Spike Conc.	Spike Conc.	Result							Result
Benzene	ug/kg	<27.4	1620	1680	1860	2000	115	120	70-130	7	20	
Ethylbenzene	ug/kg	<27.4	1620	1680	2020	2150	124	128	78-120	6	20	M1
m&p-Xylene	ug/kg	<48.6	3250	3350	3940	4080	121	122	70-130	4	20	
o-Xylene	ug/kg	<34.5	1620	1680	1970	2080	121	124	70-130	5	20	
Toluene	ug/kg	<29.0	1620	1680	2030	2090	125	125	76-120	3	20	M1
Xylene (Total)	ug/kg	<83.1	4870	5030	5910	6160	121	122	70-130	4	20	
1,2-Dichlorobenzene-d4 (S)	%						130	131	82-158			

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279480												2279481	
Parameter	Units	40232753006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
4-Bromofluorobenzene (S)	%						123	121	66-153				
Toluene-d8 (S)	%						130	130	67-159				

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

QC Batch: 395258 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232753009, 40232753010

METHOD BLANK: 2280217 Matrix: Solid  
Associated Lab Samples: 40232753009, 40232753010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	09/09/21 10:12	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	09/09/21 10:12	
Benzene	ug/kg	<11.9	20.0	09/09/21 10:12	
Ethylbenzene	ug/kg	<11.9	50.0	09/09/21 10:12	
m&p-Xylene	ug/kg	<21.1	100	09/09/21 10:12	
o-Xylene	ug/kg	<15.0	50.0	09/09/21 10:12	
Toluene	ug/kg	<12.6	50.0	09/09/21 10:12	
Xylene (Total)	ug/kg	<36.1	150	09/09/21 10:12	
1,2-Dichlorobenzene-d4 (S)	%	112	82-158	09/09/21 10:12	
4-Bromofluorobenzene (S)	%	103	66-153	09/09/21 10:12	
Toluene-d8 (S)	%	106	67-159	09/09/21 10:12	

LABORATORY CONTROL SAMPLE: 2280218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2410	96	70-130	
Ethylbenzene	ug/kg	2500	2650	106	78-120	
m&p-Xylene	ug/kg	5000	5280	106	70-130	
o-Xylene	ug/kg	2500	2580	103	70-130	
Toluene	ug/kg	2500	2560	102	76-120	
Xylene (Total)	ug/kg	7500	7860	105	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	82-158	
4-Bromofluorobenzene (S)	%			100	66-153	
Toluene-d8 (S)	%			106	67-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2280219 2280220

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232841007 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/kg	<15.2	1270	1270	1140	1160	90	91	70-130	2	20
Ethylbenzene	ug/kg	<15.2	1270	1270	1280	1220	101	96	78-120	5	20
m&p-Xylene	ug/kg	<26.9	2550	2550	2390	2320	94	91	70-130	3	20
o-Xylene	ug/kg	<19.1	1270	1270	1180	1180	93	92	70-130	1	20
Toluene	ug/kg	<16.0	1270	1270	1290	1120	102	88	76-120	15	20
Xylene (Total)	ug/kg	<46.0	3820	3820	3570	3500	94	92	70-130	2	20
1,2-Dichlorobenzene-d4 (S)	%						103	104	82-158		
4-Bromofluorobenzene (S)	%						96	96	66-153		

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2280219 2280220												
Parameter	Units	40232841007 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%							106	103	67-159		

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

QC Batch: 395368 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40232753011, 40232753012, 40232753013

METHOD BLANK: 2280997 Matrix: Solid  
Associated Lab Samples: 40232753011, 40232753012, 40232753013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	09/10/21 10:29	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	09/10/21 10:29	
Benzene	ug/kg	<11.9	20.0	09/10/21 10:29	
Ethylbenzene	ug/kg	<11.9	50.0	09/10/21 10:29	
m&p-Xylene	ug/kg	<21.1	100	09/10/21 10:29	
o-Xylene	ug/kg	<15.0	50.0	09/10/21 10:29	
Toluene	ug/kg	<12.6	50.0	09/10/21 10:29	
Xylene (Total)	ug/kg	<36.1	150	09/10/21 10:29	
1,2-Dichlorobenzene-d4 (S)	%	102	82-158	09/10/21 10:29	
4-Bromofluorobenzene (S)	%	92	66-153	09/10/21 10:29	
Toluene-d8 (S)	%	105	67-159	09/10/21 10:29	

LABORATORY CONTROL SAMPLE: 2280998

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2460	98	70-130	
Ethylbenzene	ug/kg	2500	2670	107	78-120	
m&p-Xylene	ug/kg	5000	5200	104	70-130	
o-Xylene	ug/kg	2500	2580	103	70-130	
Toluene	ug/kg	2500	2610	104	76-120	
Xylene (Total)	ug/kg	7500	7790	104	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	82-158	
4-Bromofluorobenzene (S)	%			95	66-153	
Toluene-d8 (S)	%			102	67-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2280999 2281000

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232974002 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/kg	<15.4	1300	1300	1260	1250	97	96	70-130	1	20
Ethylbenzene	ug/kg	<15.4	1300	1300	1330	1310	102	101	78-120	1	20
m&p-Xylene	ug/kg	<27.3	2590	2590	2610	2500	101	96	70-130	4	20
o-Xylene	ug/kg	<19.4	1300	1300	1380	1280	107	99	70-130	8	20
Toluene	ug/kg	<16.3	1300	1300	1310	1290	101	99	76-120	2	20
Xylene (Total)	ug/kg	<46.8	3890	3890	3990	3780	103	97	70-130	6	20
1,2-Dichlorobenzene-d4 (S)	%						116	104	82-158		
4-Bromofluorobenzene (S)	%						105	104	66-153		

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2280999	2281000										
Parameter	Units	40232974002	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Toluene-d8 (S)	%						119	113		67-159			

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

QC Batch: 395215 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3546 Analysis Description: 8270E Solid MSSV Microwave  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40232753001, 40232753002, 40232753003

METHOD BLANK: 2280111 Matrix: Solid  
Associated Lab Samples: 40232753001, 40232753002, 40232753003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4-Dimethylphenol	ug/kg	<33.0	110	09/10/21 11:25	
2-Methylphenol(o-Cresol)	ug/kg	<30.4	101	09/10/21 11:25	
3&4-Methylphenol(m&p Cresol)	ug/kg	<30.6	102	09/10/21 11:25	
Phenol	ug/kg	<39.7	132	09/10/21 11:25	
2,4,6-Tribromophenol (S)	%	96	10-128	09/10/21 11:25	
2-Fluorobiphenyl (S)	%	90	14-110	09/10/21 11:25	
2-Fluorophenol (S)	%	90	10-112	09/10/21 11:25	
Nitrobenzene-d5 (S)	%	91	40-96	09/10/21 11:25	
Phenol-d6 (S)	%	84	14-104	09/10/21 11:25	
Terphenyl-d14 (S)	%	112	10-121	09/10/21 11:25	

LABORATORY CONTROL SAMPLE: 2280112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dimethylphenol	ug/kg	1670	1650	99	50-116	
2-Methylphenol(o-Cresol)	ug/kg	1670	1720	103	56-116	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1750	105	50-113	
Phenol	ug/kg	1670	1590	95	31-130	
2,4,6-Tribromophenol (S)	%			102	10-128	
2-Fluorobiphenyl (S)	%			97	14-110	
2-Fluorophenol (S)	%			92	10-112	
Nitrobenzene-d5 (S)	%			97	40-96 S0	
Phenol-d6 (S)	%			90	14-104	
Terphenyl-d14 (S)	%			102	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2280113 2280114

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232546008 Result	Spike Conc.	Spike Conc.	Conc.								
2,4-Dimethylphenol	ug/kg	<39.4	1990	1990	1500	1530	75	77	26-116	2	28		
2-Methylphenol(o-Cresol)	ug/kg	<36.2	1990	1990	1620	1840	82	93	36-116	13	24		
3&4-Methylphenol(m&p Cresol)	ug/kg	<36.6	1990	1990	1510	1770	76	89	25-123	16	25		
Phenol	ug/kg	<47.3	1990	1990	1590	1750	80	88	31-130	9	27		
2,4,6-Tribromophenol (S)	%						88	96	10-128				
2-Fluorobiphenyl (S)	%						79	88	14-110				
2-Fluorophenol (S)	%						74	84	10-112				

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2280113		2280114		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232546008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrobenzene-d5 (S)	%					84	97	40-96			S0
Phenol-d6 (S)	%					77	84	14-104			
Terphenyl-d14 (S)	%					80	97	10-121			

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

QC Batch: 395433 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3546 Analysis Description: 8270E Solid MSSV Microwave  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232753004, 40232753005

METHOD BLANK: 2281934 Matrix: Solid  
Associated Lab Samples: 40232753004, 40232753005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4-Dimethylphenol	ug/kg	<33.0	110	09/13/21 14:19	
2-Methylphenol(o-Cresol)	ug/kg	<30.3	101	09/13/21 14:19	
3&4-Methylphenol(m&p Cresol)	ug/kg	<30.5	102	09/13/21 14:19	
Phenol	ug/kg	<39.6	132	09/13/21 14:19	
2,4,6-Tribromophenol (S)	%	92	10-128	09/13/21 14:19	
2-Fluorobiphenyl (S)	%	84	14-110	09/13/21 14:19	
2-Fluorophenol (S)	%	79	10-112	09/13/21 14:19	
Nitrobenzene-d5 (S)	%	89	40-96	09/13/21 14:19	
Phenol-d6 (S)	%	82	14-104	09/13/21 14:19	
Terphenyl-d14 (S)	%	96	10-121	09/13/21 14:19	

LABORATORY CONTROL SAMPLE: 2281935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dimethylphenol	ug/kg	1670	1600	96	50-116	
2-Methylphenol(o-Cresol)	ug/kg	1670	1600	96	56-116	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1550	93	50-113	
Phenol	ug/kg	1670	1500	90	31-130	
2,4,6-Tribromophenol (S)	%			93	10-128	
2-Fluorobiphenyl (S)	%			91	14-110	
2-Fluorophenol (S)	%			86	10-112	
Nitrobenzene-d5 (S)	%			90	40-96	
Phenol-d6 (S)	%			87	14-104	
Terphenyl-d14 (S)	%			71	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2281936 2281937

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10577721001 Result	Spike Conc.	Spike Conc.	Result						
2,4-Dimethylphenol	ug/kg	<0.036 mg/kg	1850	1850	1340	1540	73	84	26-116	14	28
2-Methylphenol(o-Cresol)	ug/kg	<0.033 mg/kg	1850	1850	1470	1690	80	92	36-116	14	24
3&4-Methylphenol(m&p Cresol)	ug/kg	<0.034 mg/kg	1850	1850	1370	1590	74	86	25-123	15	25
Phenol	ug/kg	<0.044 mg/kg	1850	1850	1350	1540	73	84	31-130	13	27
2,4,6-Tribromophenol (S)	%						71	73	10-128		

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

Parameter	Units	2281936		2281937		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
2-Fluorobiphenyl (S)	%	10577721001				75	81	14-110			
2-Fluorophenol (S)	%					69	82	10-112			
Nitrobenzene-d5 (S)	%					77	83	40-96			
Phenol-d6 (S)	%					70	80	14-104			
Terphenyl-d14 (S)	%					78	98	10-121			

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

QC Batch:	395601	Analysis Method:	EPA 8270E
QC Batch Method:	EPA 3546	Analysis Description:	8270E Solid MSSV Microwave
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40232753006, 40232753007, 40232753008, 40232753009, 40232753010, 40232753011, 40232753012, 40232753013

METHOD BLANK: 2282348 Matrix: Solid  
Associated Lab Samples: 40232753006, 40232753007, 40232753008, 40232753009, 40232753010, 40232753011, 40232753012, 40232753013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4-Dimethylphenol	ug/kg	<33.0	110	09/14/21 14:20	
2-Methylphenol(o-Cresol)	ug/kg	<30.3	101	09/14/21 14:20	
3&4-Methylphenol(m&p Cresol)	ug/kg	<30.6	102	09/14/21 14:20	
Phenol	ug/kg	<39.6	132	09/14/21 14:20	
2,4,6-Tribromophenol (S)	%	93	10-128	09/14/21 14:20	
2-Fluorobiphenyl (S)	%	94	14-110	09/14/21 14:20	
2-Fluorophenol (S)	%	86	10-112	09/14/21 14:20	
Nitrobenzene-d5 (S)	%	93	40-96	09/14/21 14:20	
Phenol-d6 (S)	%	82	14-104	09/14/21 14:20	
Terphenyl-d14 (S)	%	112	10-121	09/14/21 14:20	

LABORATORY CONTROL SAMPLE: 2282349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dimethylphenol	ug/kg	1670	1650	99	50-116	
2-Methylphenol(o-Cresol)	ug/kg	1670	1580	95	56-116	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1470	88	50-113	
Phenol	ug/kg	1670	1600	96	31-130	
2,4,6-Tribromophenol (S)	%			95	10-128	
2-Fluorobiphenyl (S)	%			99	14-110	
2-Fluorophenol (S)	%			98	10-112	
Nitrobenzene-d5 (S)	%			106	40-96	S0
Phenol-d6 (S)	%			99	14-104	
Terphenyl-d14 (S)	%			111	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2282350 2282351

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232753006 Result	Spike Conc.	Spike Conc.	MS Result						
2,4-Dimethylphenol	ug/kg	<546	2760	2760	2460	1770J	89	64	26-116		28
2-Methylphenol(o-Cresol)	ug/kg	<501	2760	2760	2380	1900	87	69	36-116	22	24
3&4-Methylphenol(m&p Cresol)	ug/kg	<506	2760	2760	2030	1770	74	64	25-123	14	25
Phenol	ug/kg	<655	2760	2760	1890J	1660J	69	60	31-130		27
2,4,6-Tribromophenol (S)	%						81	76	10-128		
2-Fluorophenol (S)	%						60	60	10-112		

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**QUALITY CONTROL DATA**

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2282350 2282351												
Parameter	Units	40232753006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Phenol-d6 (S)	%							74	61	14-104		

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

QC Batch: 395432 Analysis Method: EPA 8270E by SIM  
QC Batch Method: EPA 3546 Analysis Description: 8270E/3546 MSSV PAH by SIM  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40232753001, 40232753002, 40232753003, 40232753004, 40232753005, 40232753006

METHOD BLANK: 2281930 Matrix: Solid  
Associated Lab Samples: 40232753001, 40232753002, 40232753003, 40232753004, 40232753005, 40232753006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	ug/kg	<2.4	16.7	09/13/21 11:11	
Acenaphthene	ug/kg	<2.2	16.7	09/13/21 11:11	
Acenaphthylene	ug/kg	<2.1	16.7	09/13/21 11:11	
Anthracene	ug/kg	<2.1	16.7	09/13/21 11:11	
Benzo(a)anthracene	ug/kg	<2.2	16.7	09/13/21 11:11	
Benzo(a)pyrene	ug/kg	<1.9	16.7	09/13/21 11:11	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	09/13/21 11:11	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	09/13/21 11:11	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	09/13/21 11:11	
Chrysene	ug/kg	<3.1	16.7	09/13/21 11:11	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	09/13/21 11:11	
Fluoranthene	ug/kg	<2.0	16.7	09/13/21 11:11	
Fluorene	ug/kg	<2.0	16.7	09/13/21 11:11	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	09/13/21 11:11	
Naphthalene	ug/kg	<1.6	16.7	09/13/21 11:11	
Phenanthrene	ug/kg	<1.9	16.7	09/13/21 11:11	
Pyrene	ug/kg	<2.5	16.7	09/13/21 11:11	
2-Fluorobiphenyl (S)	%	81	36-86	09/13/21 11:11	
Terphenyl-d14 (S)	%	111	41-97	09/13/21 11:11	S3

LABORATORY CONTROL SAMPLE: 2281931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylnaphthalene	ug/kg	333	280	84	51-97	
Acenaphthene	ug/kg	333	254	76	62-120	
Acenaphthylene	ug/kg	333	240	72	61-120	
Anthracene	ug/kg	333	305	92	62-111	
Benzo(a)anthracene	ug/kg	333	269	81	61-120	
Benzo(a)pyrene	ug/kg	333	276	83	65-120	
Benzo(b)fluoranthene	ug/kg	333	314	94	64-108	
Benzo(g,h,i)perylene	ug/kg	333	298	89	71-120	
Benzo(k)fluoranthene	ug/kg	333	296	89	76-120	
Chrysene	ug/kg	333	298	89	74-120	
Dibenz(a,h)anthracene	ug/kg	333	299	90	71-120	
Fluoranthene	ug/kg	333	309	93	67-112	
Fluorene	ug/kg	333	273	82	65-120	
Indeno(1,2,3-cd)pyrene	ug/kg	333	307	92	74-120	
Naphthalene	ug/kg	333	256	77	53-120	
Phenanthrene	ug/kg	333	279	84	67-120	

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

LABORATORY CONTROL SAMPLE: 2281931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	268	81	60-103	
2-Fluorobiphenyl (S)	%			78	36-86	
Terphenyl-d14 (S)	%			93	41-97	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2281932 2281933

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
		40232753006 Result	Spike Conc.	Spike Conc.	Result						RPD	RPD	
2-Methylnaphthalene	ug/kg	<40.3	551	551	554	383	96	65	42-97	36	21	R1	
Acenaphthene	ug/kg	154J	551	551	1040	489	161	61	43-120	72	27	M1,R1	
Acenaphthylene	ug/kg	221J	551	551	844	673	113	82	51-120	23	26		
Anthracene	ug/kg	310	551	551	1490	759	215	82	46-111	65	29	M1,R1	
Benzo(a)anthracene	ug/kg	777	551	551	3800	1450	549	123	48-120	89	23	M1,R1	
Benzo(a)pyrene	ug/kg	760	551	551	3720	1460	537	127	46-108	87	30	M1,R1	
Benzo(b)fluoranthene	ug/kg	954	551	551	4640	1630	670	122	45-108	96	30	M1,R1	
Benzo(g,h,i)perylene	ug/kg	516	551	551	2170	1120	301	109	39-120	64	37	M1,R1	
Benzo(k)fluoranthene	ug/kg	372	551	551	2130	910	319	98	47-120	80	31	M1,R1	
Chrysene	ug/kg	890	551	551	4090	1540	580	119	54-120	90	21	M1,R1	
Dibenz(a,h)anthracene	ug/kg	103J	551	551	739	504	115	73	46-120	38	34	R1	
Fluoranthene	ug/kg	1710	551	551	9400	2460	1400	137	53-112	117	27	M1,R1	
Fluorene	ug/kg	203J	551	551	1190	601	179	72	48-120	66	29	M1,R1	
Indeno(1,2,3-cd)pyrene	ug/kg	412	551	551	1870	966	265	101	40-120	64	34	M1,R1	
Naphthalene	ug/kg	30.1J	551	551	803	410	140	69	47-120	65	25	M1,R1	
Phenanthrene	ug/kg	1260	551	551	7190	1810	1080	99	49-120	120	28	M1,R1	
Pyrene	ug/kg	1540	551	551	7080	2290	1000	135	43-103	102	31	M1,R1	
2-Fluorobiphenyl (S)	%							62	63	36-86			
Terphenyl-d14 (S)	%							59	68	41-97			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

QC Batch: 395602 Analysis Method: EPA 8270E by SIM  
QC Batch Method: EPA 3546 Analysis Description: 8270E/3546 MSSV PAH by SIM  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40232753007, 40232753008, 40232753009, 40232753010, 40232753011, 40232753012, 40232753013

METHOD BLANK: 2282352 Matrix: Solid  
Associated Lab Samples: 40232753007, 40232753008, 40232753009, 40232753010, 40232753011, 40232753012, 40232753013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	ug/kg	<2.4	16.7	09/14/21 13:44	
Acenaphthene	ug/kg	<2.2	16.7	09/14/21 13:44	
Acenaphthylene	ug/kg	<2.1	16.7	09/14/21 13:44	
Anthracene	ug/kg	<2.1	16.7	09/14/21 13:44	
Benzo(a)anthracene	ug/kg	<2.2	16.7	09/14/21 13:44	
Benzo(a)pyrene	ug/kg	<1.9	16.7	09/14/21 13:44	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	09/14/21 13:44	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	09/14/21 13:44	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	09/14/21 13:44	
Chrysene	ug/kg	<3.1	16.7	09/14/21 13:44	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	09/14/21 13:44	
Fluoranthene	ug/kg	<2.0	16.7	09/14/21 13:44	
Fluorene	ug/kg	<2.0	16.7	09/14/21 13:44	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	09/14/21 13:44	
Naphthalene	ug/kg	<1.6	16.7	09/14/21 13:44	
Phenanthrene	ug/kg	<1.9	16.7	09/14/21 13:44	
Pyrene	ug/kg	<2.5	16.7	09/14/21 13:44	
2-Fluorobiphenyl (S)	%	80	36-86	09/14/21 13:44	
Terphenyl-d14 (S)	%	107	41-97	09/14/21 13:44	S3

LABORATORY CONTROL SAMPLE: 2282353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylnaphthalene	ug/kg	333	283	85	51-97	
Acenaphthene	ug/kg	333	253	76	62-120	
Acenaphthylene	ug/kg	333	253	76	61-120	
Anthracene	ug/kg	333	317	95	62-111	
Benzo(a)anthracene	ug/kg	333	267	80	61-120	
Benzo(a)pyrene	ug/kg	333	292	88	65-120	
Benzo(b)fluoranthene	ug/kg	333	309	93	64-108	
Benzo(g,h,i)perylene	ug/kg	333	335	101	71-120	
Benzo(k)fluoranthene	ug/kg	333	304	91	76-120	
Chrysene	ug/kg	333	321	96	74-120	
Dibenz(a,h)anthracene	ug/kg	333	324	97	71-120	
Fluoranthene	ug/kg	333	322	97	67-112	
Fluorene	ug/kg	333	268	81	65-120	
Indeno(1,2,3-cd)pyrene	ug/kg	333	336	101	74-120	
Naphthalene	ug/kg	333	247	74	53-120	
Phenanthrene	ug/kg	333	274	82	67-120	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

LABORATORY CONTROL SAMPLE: 2282353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	269	81	60-103	
2-Fluorobiphenyl (S)	%			82	36-86	
Terphenyl-d14 (S)	%			91	41-97	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2282354 2282355

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max		Qual
		Spike Conc.	Result	Spike Conc.	Result					RPD	RPD	
2-Methylnaphthalene	ug/kg	809	1060	809	809	199	347	42-97	37	21	M1, R1	
Acenaphthene	ug/kg	809	391J	809	809	108	164	43-120	30	27	M1, R1	
Acenaphthylene	ug/kg	809	504J	809	809	203	182	51-120	8	26	M1	
Anthracene	ug/kg	809	1070	809	809	348	333	46-111	3	29	M1	
Benzo(a)anthracene	ug/kg	809	1890	809	809	512	454	48-120	8	23	M1	
Benzo(a)pyrene	ug/kg	809	2020	809	809	483	430	46-108	8	30	M1	
Benzo(b)fluoranthene	ug/kg	809	2690	809	809	515	521	45-108	1	30	M1	
Benzo(g,h,i)perylene	ug/kg	809	1520	809	809	259	296	39-120	8	37	M1	
Benzo(k)fluoranthene	ug/kg	809	968	809	809	205	203	47-120	1	31	M1	
Chrysene	ug/kg	809	2450	809	809	501	451	54-120	6	21	M1	
Dibenz(a,h)anthracene	ug/kg	809	295J	809	809	116	99	46-120	12	34		
Fluoranthene	ug/kg	809	4760	809	809	946	981	53-112	2	27	M1	
Fluorene	ug/kg	809	535J	809	809	192	220	48-120	10	29	M1	
Indeno(1,2,3-cd)pyrene	ug/kg	809	1200	809	809	249	244	40-120	1	34	M1	
Naphthalene	ug/kg	809	1310	809	809	161	254	47-120	25	25	M1	
Phenanthrene	ug/kg	809	3680	809	809	994	1070	49-120	5	28	M1	
Pyrene	ug/kg	809	4080	809	809	883	871	43-103	1	31	M1	
2-Fluorobiphenyl (S)	%					21	23	36-86			S4	
Terphenyl-d14 (S)	%					30	38	41-97			S4	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

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QC Batch:	395022	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40232753001, 40232753002, 40232753003, 40232753004, 40232753005, 40232753006, 40232753007, 40232753008, 40232753009, 40232753010, 40232753011, 40232753012, 40232753013

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SAMPLE DUPLICATE: 2279232

Parameter	Units	40232758001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.6	4.6	0	10	

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## QUALIFIERS

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753

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### 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.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S1 Surrogate recovery outside laboratory control limits (confirmed by re-analysis).

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1940101253 GREEN BAY FORMER MG

Pace Project No.: 40232753

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40232753001	090221004	EPA 3050B	394941	EPA 6020B	395121
40232753002	090221005	EPA 3050B	394941	EPA 6020B	395121
40232753003	090221006	EPA 3050B	394941	EPA 6020B	395121
40232753004	090221007	EPA 3050B	394941	EPA 6020B	395121
40232753005	090221008	EPA 3050B	394941	EPA 6020B	395121
40232753006	090221009	EPA 3050B	394941	EPA 6020B	395121
40232753007	090221010	EPA 3050B	394941	EPA 6020B	395121
40232753008	090221011	EPA 3050B	394941	EPA 6020B	395121
40232753009	090221012	EPA 3050B	394941	EPA 6020B	395121
40232753010	090221013	EPA 3050B	394941	EPA 6020B	395121
40232753011	090221014	EPA 3050B	394941	EPA 6020B	395121
40232753012	090221015	EPA 3050B	394941	EPA 6020B	395121
40232753013	090221016	EPA 3050B	394941	EPA 6020B	395121
40232753001	090221004	EPA 7471	395850	EPA 7471	395893
40232753002	090221005	EPA 7471	395850	EPA 7471	395893
40232753003	090221006	EPA 7471	395850	EPA 7471	395893
40232753004	090221007	EPA 7471	395850	EPA 7471	395893
40232753005	090221008	EPA 7471	395850	EPA 7471	395893
40232753006	090221009	EPA 7471	395850	EPA 7471	395893
40232753007	090221010	EPA 7471	395850	EPA 7471	395893
40232753008	090221011	EPA 7471	395850	EPA 7471	395893
40232753009	090221012	EPA 7471	395850	EPA 7471	395893
40232753010	090221013	EPA 7471	395850	EPA 7471	395893
40232753011	090221014	EPA 7471	395850	EPA 7471	395893
40232753012	090221015	EPA 7471	395850	EPA 7471	395893
40232753013	090221016	EPA 7471	395850	EPA 7471	395893
40232753001	090221004	EPA 3546	395215	EPA 8270E	395282
40232753002	090221005	EPA 3546	395215	EPA 8270E	395282
40232753003	090221006	EPA 3546	395215	EPA 8270E	395282
40232753004	090221007	EPA 3546	395433	EPA 8270E	395530
40232753005	090221008	EPA 3546	395433	EPA 8270E	395530
40232753006	090221009	EPA 3546	395601	EPA 8270E	395652
40232753007	090221010	EPA 3546	395601	EPA 8270E	395652
40232753008	090221011	EPA 3546	395601	EPA 8270E	395652
40232753009	090221012	EPA 3546	395601	EPA 8270E	395652
40232753010	090221013	EPA 3546	395601	EPA 8270E	395652
40232753011	090221014	EPA 3546	395601	EPA 8270E	395652
40232753012	090221015	EPA 3546	395601	EPA 8270E	395652
40232753013	090221016	EPA 3546	395601	EPA 8270E	395652
40232753001	090221004	EPA 3546	395432	EPA 8270E by SIM	395500
40232753002	090221005	EPA 3546	395432	EPA 8270E by SIM	395500
40232753003	090221006	EPA 3546	395432	EPA 8270E by SIM	395500
40232753004	090221007	EPA 3546	395432	EPA 8270E by SIM	395500
40232753005	090221008	EPA 3546	395432	EPA 8270E by SIM	395500
40232753006	090221009	EPA 3546	395432	EPA 8270E by SIM	395500
40232753007	090221010	EPA 3546	395602	EPA 8270E by SIM	395678

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 1940101253 GREEN BAY FORMER MG  
Pace Project No.: 40232753


Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40232753008	090221011	EPA 3546	395602	EPA 8270E by SIM	395678
40232753009	090221012	EPA 3546	395602	EPA 8270E by SIM	395678
40232753010	090221013	EPA 3546	395602	EPA 8270E by SIM	395678
40232753011	090221014	EPA 3546	395602	EPA 8270E by SIM	395678
40232753012	090221015	EPA 3546	395602	EPA 8270E by SIM	395678
40232753013	090221016	EPA 3546	395602	EPA 8270E by SIM	395678
40232753001	090221004	EPA 5035/5030B	395077	EPA 8260	395082
40232753002	090221005	EPA 5035/5030B	395077	EPA 8260	395082
40232753003	090221006	EPA 5035/5030B	395077	EPA 8260	395082
40232753004	090221007	EPA 5035/5030B	395077	EPA 8260	395082
40232753005	090221008	EPA 5035/5030B	395077	EPA 8260	395082
40232753006	090221009	EPA 5035/5030B	395077	EPA 8260	395082
40232753007	090221010	EPA 5035/5030B	395077	EPA 8260	395082
40232753008	090221011	EPA 5035/5030B	395077	EPA 8260	395082
40232753009	090221012	EPA 5035/5030B	395258	EPA 8260	395259
40232753010	090221013	EPA 5035/5030B	395258	EPA 8260	395259
40232753011	090221014	EPA 5035/5030B	395368	EPA 8260	395369
40232753012	090221015	EPA 5035/5030B	395368	EPA 8260	395369
40232753013	090221016	EPA 5035/5030B	395368	EPA 8260	395369
40232753001	090221004	ASTM D2974-87	395022		
40232753002	090221005	ASTM D2974-87	395022		
40232753003	090221006	ASTM D2974-87	395022		
40232753004	090221007	ASTM D2974-87	395022		
40232753005	090221008	ASTM D2974-87	395022		
40232753006	090221009	ASTM D2974-87	395022		
40232753007	090221010	ASTM D2974-87	395022		
40232753008	090221011	ASTM D2974-87	395022		
40232753009	090221012	ASTM D2974-87	395022		
40232753010	090221013	ASTM D2974-87	395022		
40232753011	090221014	ASTM D2974-87	395022		
40232753012	090221015	ASTM D2974-87	395022		
40232753013	090221016	ASTM D2974-87	395022		

**REPORT OF LABORATORY ANALYSIS**

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

### Sample Condition Upon Receipt Form (SCUR)

Project #: \_\_\_\_\_

Client Name: Ramboll

**WO# : 40232753**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 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 - 111 Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun  
 Person examining contents:  
 Date: 9/3/21 /Initials: WC  
 Labeled By Initials: KB

Cooler Temperature Uncorr: 5 /Corr: 5  
 Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> No <input 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 checked="" type="checkbox"/> No <input 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>S</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

**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





## ANALYTICAL REPORT

Lab Number:	L2147972
Client:	Ramboll 234 W. Florida St, 5th Floor Milwaukee, WI 54304
ATTN:	Staci Goetz
Phone:	(414) 335-3563
Project Name:	GREEN BAY FORMER MGP
Project Number:	194010253
Report Date:	09/29/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2147972-01	090221011	SOIL	GREEN BAY, WI	09/02/21 13:20	09/08/21
L2147972-02	090221015	SOIL	GREEN BAY, WI	09/02/21 16:40	09/08/21
L2147972-03	090221016	SOIL	GREEN BAY, WI	09/02/21 16:45	09/08/21

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Alkylated PAHs

L2147972-01D: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### Petroleum Hydrocarbon Identification by GC-FID

L2147972-01, -02, and -03: The samples were extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample was conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of 82 reference standards were also utilized to provide the best possible sample match. Quantitative determination of the sample's hydrocarbon concentration was performed in accordance with EPA Method 8015M. The sample's total hydrocarbon concentration and all associated quality control data are included in the report.

The following qualitative information is based on a tentative interpretation of chromatographic pattern recognition and boiling point ranges:

#### Total Petroleum Hydrocarbon Identification

L2147972-01, -02, and -03 contain hydrocarbons eluting in the range of n-Nonane (C9) to after the elution of n-Tetracontane (C40).

Based on the data generated, L2147972-01, -02, and -03 contain material eluting in the low to heavy weight ranges of the chromatogram which is similar to coal tar/creosote.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

*Susan O'Neil*

Susan O'Neil

Title: Technical Director/Representative

Date: 09/29/21

# ORGANICS

# SEMIVOLATILES

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

Lab ID: L2147972-01 D  
 Client ID: 090221011  
 Sample Location: GREEN BAY, WI

Date Collected: 09/02/21 13:20  
 Date Received: 09/08/21  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM(M)  
 Analytical Date: 09/25/21 01:47  
 Analyst: CC  
 Percent Solids: 42%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/14/21 17:50  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/23/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
Naphthalene	9700		ug/kg	223	64.1	10
C1-Naphthalenes	16600		ug/kg	223	64.1	10
C2-Naphthalenes	18700		ug/kg	223	64.1	10
C3-Naphthalenes	10500		ug/kg	223	64.1	10
C4-Naphthalenes	3060		ug/kg	223	64.1	10
2-Methylnaphthalene	15100		ug/kg	223	57.6	10
1-Methylnaphthalene	11900		ug/kg	223	70.3	10
Biphenyl	2680		ug/kg	223	69.0	10
2,6-Dimethylnaphthalene	8810		ug/kg	223	53.0	10
Dibenzofuran	4510		ug/kg	223	70.3	10
Acenaphthylene	15600		ug/kg	223	42.6	10
Acenaphthene	9640		ug/kg	223	39.3	10
2,3,5-Trimethylnaphthalene	1880		ug/kg	223	36.5	10
Fluorene	13100		ug/kg	223	59.5	10
C1-Fluorenes	10000		ug/kg	223	59.5	10
C2-Fluorenes	6680		ug/kg	223	59.5	10
C3-Fluorenes	3860	G	ug/kg	223	59.5	10
Dibenzothiophene	8350		ug/kg	223	61.5	10
C1-Dibenzothiophenes BS	10500		ug/kg	223	61.5	10
C2-Dibenzothiophenes	8200		ug/kg	223	61.5	10
C3-Dibenzothiophenes	2930		ug/kg	223	61.5	10
C4-Dibenzothiophenes	875.		ug/kg	223	61.5	10
Phenanthrene	84600		ug/kg	223	74.0	10
C1-Phenanthrenes/Anthracenes	54400		ug/kg	223	74.0	10
C2-Phenanthrenes/Anthr BS	21500		ug/kg	223	74.0	10
C3-Phenanthrenes/Anthracenes	5820		ug/kg	223	74.0	10
C4-Phenanthrenes/Anthracenes	1380		ug/kg	223	74.0	10
Retene	ND		ug/kg	223	54.8	10



**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

Lab ID: L2147972-01 D  
 Client ID: 090221011  
 Sample Location: GREEN BAY, WI

Date Collected: 09/02/21 13:20  
 Date Received: 09/08/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
Anthracene	25700		ug/kg	223	46.0	10
Fluoranthene	59000		ug/kg	223	70.9	10
Pyrene	58600		ug/kg	223	58.7	10
C1-Fluoranthenes/Pyrenes	44600		ug/kg	223	58.7	10
C2-Fluoranthenes/Pyrenes	14700		ug/kg	223	58.7	10
C3-Fluoranthenes/Pyrenes	4600		ug/kg	223	58.7	10
C4-Fluoranthenes/Pyrenes	2380		ug/kg	223	58.7	10
Benz(a)anthracene	32800		ug/kg	223	45.5	10
Chrysene/Triphenylene	32000		ug/kg	223	45.1	10
C1-Chrysenes	18400		ug/kg	223	45.1	10
C2-Chrysenes BS	7420		ug/kg	223	45.1	10
C3-Chrysenes	3940		ug/kg	223	45.1	10
C4-Chrysenes	2240		ug/kg	223	45.1	10
Benzo(b)fluoranthene	23800		ug/kg	223	58.0	10
Benzo(j)+(k)fluoranthene	20000		ug/kg	223	44.3	10
Benzo(e)pyrene	17800		ug/kg	223	46.0	10
Benzo(a)pyrene	32000		ug/kg	223	63.7	10
Perylene	6570		ug/kg	223	43.1	10
Indeno(1,2,3-cd)pyrene	18100		ug/kg	223	60.6	10
Dibenz(a,h)+(a,c)anthracene	5590		ug/kg	223	60.3	10
Benzo(g,h,i)perylene	17700		ug/kg	223	59.3	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	72		50-130
Phenanthrene-d10	88		50-130
Benzo(a)pyrene-d12	100		50-130

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

Lab ID: L2147972-02  
 Client ID: 090221015  
 Sample Location: GREEN BAY, WI

Date Collected: 09/02/21 16:40  
 Date Received: 09/08/21  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM(M)  
 Analytical Date: 09/24/21 03:42  
 Analyst: CC  
 Percent Solids: 41%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/14/21 17:50  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/23/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
Naphthalene	20000		ug/kg	27.9	8.01	1
C1-Naphthalenes	25900		ug/kg	27.9	8.01	1
C2-Naphthalenes	16400		ug/kg	27.9	8.01	1
C3-Naphthalenes	5960		ug/kg	27.9	8.01	1
C4-Naphthalenes	1580		ug/kg	27.9	8.01	1
2-Methylnaphthalene	24100		ug/kg	27.9	7.19	1
1-Methylnaphthalene	17900		ug/kg	27.9	8.78	1
Biphenyl	3370		ug/kg	27.9	8.62	1
2,6-Dimethylnaphthalene	7830		ug/kg	27.9	6.63	1
Dibenzofuran	4430		ug/kg	27.9	8.78	1
Acenaphthylene	7310		ug/kg	27.9	5.32	1
Acenaphthene	8570		ug/kg	27.9	4.91	1
2,3,5-Trimethylnaphthalene	1140		ug/kg	27.9	4.56	1
Fluorene	10500		ug/kg	27.9	7.44	1
C1-Fluorenes	5340		ug/kg	27.9	7.44	1
C2-Fluorenes	3160		ug/kg	27.9	7.44	1
C3-Fluorenes	2690	G	ug/kg	27.9	7.44	1
Dibenzothiophene	5220		ug/kg	27.9	7.69	1
C1-Dibenzothiophenes BS	5450		ug/kg	27.9	7.69	1
C2-Dibenzothiophenes	3950		ug/kg	27.9	7.69	1
C3-Dibenzothiophenes	1610		ug/kg	27.9	7.69	1
C4-Dibenzothiophenes	441.		ug/kg	27.9	7.69	1
Phenanthrene	57600	E	ug/kg	27.9	9.24	1
C1-Phenanthrenes/Anthracenes	26500		ug/kg	27.9	9.24	1
C2-Phenanthrenes/Anthr BS	11400		ug/kg	27.9	9.24	1
C3-Phenanthrenes/Anthracenes	3360		ug/kg	27.9	9.24	1
C4-Phenanthrenes/Anthracenes	799.		ug/kg	27.9	9.24	1
Retene	ND		ug/kg	27.9	6.84	1

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

**Lab ID:** L2147972-02  
**Client ID:** 090221015  
**Sample Location:** GREEN BAY, WI

**Date Collected:** 09/02/21 16:40  
**Date Received:** 09/08/21  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
Anthracene	14900		ug/kg	27.9	5.75	1
Fluoranthene	48900	E	ug/kg	27.9	8.86	1
Pyrene	45800	E	ug/kg	27.9	7.33	1
C1-Fluoranthenes/Pyrenes	27900		ug/kg	27.9	7.33	1
C2-Fluoranthenes/Pyrenes	10200		ug/kg	27.9	7.33	1
C3-Fluoranthenes/Pyrenes	3160		ug/kg	27.9	7.33	1
C4-Fluoranthenes/Pyrenes	2010		ug/kg	27.9	7.33	1
Benz(a)anthracene	23300		ug/kg	27.9	5.68	1
Chrysene/Triphenylene	24400		ug/kg	27.9	5.64	1
C1-Chrysenes	11700		ug/kg	27.9	5.64	1
C2-Chrysenes BS	4970		ug/kg	27.9	5.64	1
C3-Chrysenes	2920		ug/kg	27.9	5.64	1
C4-Chrysenes	1050		ug/kg	27.9	5.64	1
Benzo(b)fluoranthene	22000		ug/kg	27.9	7.25	1
Benzo(j)+(k)fluoranthene	16100		ug/kg	27.9	5.53	1
Benzo(e)pyrene	14800		ug/kg	27.9	5.75	1
Benzo(a)pyrene	25100		ug/kg	27.9	7.96	1
Perylene	5660		ug/kg	27.9	5.38	1
Indeno(1,2,3-cd)pyrene	17000		ug/kg	27.9	7.57	1
Dibenz(a,h)+(a,c)anthracene	5260		ug/kg	27.9	7.53	1
Benzo(g,h,i)perylene	16700		ug/kg	27.9	7.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	91		50-130
Phenanthrene-d10	94		50-130
Benzo(a)pyrene-d12	108		50-130

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

Lab ID: L2147972-02 D  
 Client ID: 090221015  
 Sample Location: GREEN BAY, WI

Date Collected: 09/02/21 16:40  
 Date Received: 09/08/21  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM(M)  
 Analytical Date: 09/25/21 03:13  
 Analyst: CC  
 Percent Solids: 41%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/14/21 17:50  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/23/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
Phenanthrene	59300		ug/kg	112	37.0	4
Fluoranthene	47700		ug/kg	112	35.4	4
Pyrene	44200		ug/kg	112	29.3	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	84		50-130
Phenanthrene-d10	102		50-130
Benzo(a)pyrene-d12	111		50-130

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

Lab ID: L2147972-03  
 Client ID: 090221016  
 Sample Location: GREEN BAY, WI

Date Collected: 09/02/21 16:45  
 Date Received: 09/08/21  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM(M)  
 Analytical Date: 09/24/21 05:08  
 Analyst: CC  
 Percent Solids: 46%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/14/21 17:50  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/23/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
Naphthalene	7940		ug/kg	16.6	4.77	1
C1-Naphthalenes	9730		ug/kg	16.6	4.77	1
C2-Naphthalenes	6640		ug/kg	16.6	4.77	1
C3-Naphthalenes	2440		ug/kg	16.6	4.77	1
C4-Naphthalenes	645.		ug/kg	16.6	4.77	1
2-Methylnaphthalene	8830		ug/kg	16.6	4.28	1
1-Methylnaphthalene	6960		ug/kg	16.6	5.23	1
Biphenyl	1300		ug/kg	16.6	5.13	1
2,6-Dimethylnaphthalene	3180		ug/kg	16.6	3.94	1
Dibenzofuran	1900		ug/kg	16.6	5.22	1
Acenaphthylene	3170		ug/kg	16.6	3.16	1
Acenaphthene	3170		ug/kg	16.6	2.92	1
2,3,5-Trimethylnaphthalene	458.		ug/kg	16.6	2.71	1
Fluorene	4230		ug/kg	16.6	4.42	1
C1-Fluorenes	2120		ug/kg	16.6	4.42	1
C2-Fluorenes	1240		ug/kg	16.6	4.42	1
C3-Fluorenes	1680	G	ug/kg	16.6	4.42	1
Dibenzothiophene	2290		ug/kg	16.6	4.57	1
C1-Dibenzothiophenes BS	2140		ug/kg	16.6	4.57	1
C2-Dibenzothiophenes	1510		ug/kg	16.6	4.57	1
C3-Dibenzothiophenes	632.		ug/kg	16.6	4.57	1
C4-Dibenzothiophenes	187.		ug/kg	16.6	4.57	1
Phenanthrene	26500	E	ug/kg	16.6	5.50	1
C1-Phenanthrenes/Anthracenes	10300		ug/kg	16.6	5.50	1
C2-Phenanthrenes/Anthr BS	4480		ug/kg	16.6	5.50	1
C3-Phenanthrenes/Anthracenes	1340		ug/kg	16.6	5.50	1
C4-Phenanthrenes/Anthracenes	337.		ug/kg	16.6	5.50	1
Retene	ND		ug/kg	16.6	4.07	1

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

**Lab ID:** L2147972-03  
**Client ID:** 090221016  
**Sample Location:** GREEN BAY, WI

**Date Collected:** 09/02/21 16:45  
**Date Received:** 09/08/21  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
Anthracene	6300		ug/kg	16.6	3.42	1
Fluoranthene	28300	E	ug/kg	16.6	5.27	1
Pyrene	24700	E	ug/kg	16.6	4.36	1
C1-Fluoranthenes/Pyrenes	12300		ug/kg	16.6	4.36	1
C2-Fluoranthenes/Pyrenes	4750		ug/kg	16.6	4.36	1
C3-Fluoranthenes/Pyrenes	1520		ug/kg	16.6	4.36	1
C4-Fluoranthenes/Pyrenes	1150		ug/kg	16.6	4.36	1
Benz(a)anthracene	12800		ug/kg	16.6	3.38	1
Chrysene/Triphenylene	15200		ug/kg	16.6	3.35	1
C1-Chrysenes	5510		ug/kg	16.6	3.35	1
C2-Chrysenes BS	2290		ug/kg	16.6	3.35	1
C3-Chrysenes	1410		ug/kg	16.6	3.35	1
C4-Chrysenes	599.		ug/kg	16.6	3.35	1
Benzo(b)fluoranthene	14800		ug/kg	16.6	4.31	1
Benzo(j)+(k)fluoranthene	10800		ug/kg	16.6	3.29	1
Benzo(e)pyrene	9690		ug/kg	16.6	3.42	1
Benzo(a)pyrene	15300		ug/kg	16.6	4.74	1
Perylene	3670		ug/kg	16.6	3.20	1
Indeno(1,2,3-cd)pyrene	11600		ug/kg	16.6	4.50	1
Dibenz(a,h)+(a,c)anthracene	3520		ug/kg	16.6	4.48	1
Benzo(g,h,i)perylene	11500		ug/kg	16.6	4.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	78		50-130
Phenanthrene-d10	83		50-130
Benzo(a)pyrene-d12	100		50-130

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

Lab ID: L2147972-03 D  
 Client ID: 090221016  
 Sample Location: GREEN BAY, WI

Date Collected: 09/02/21 16:45  
 Date Received: 09/08/21  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM(M)  
 Analytical Date: 09/25/21 04:38  
 Analyst: CC  
 Percent Solids: 46%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/14/21 17:50  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/23/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
Phenanthrene	28600		ug/kg	66.4	22.0	4
Fluoranthene	29200		ug/kg	66.4	21.1	4
Pyrene	25000		ug/kg	66.4	17.4	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	73		50-130
Phenanthrene-d10	91		50-130
Benzo(a)pyrene-d12	98		50-130

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM(M)  
Analytical Date: 09/23/21 16:14  
Analyst: CC

Extraction Method: ALPHA OP-013  
Extraction Date: 09/14/21 17:50  
Cleanup Method: EPA 3611B  
Cleanup Date: 09/23/21

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-03 Batch: WG1546324-1					
Naphthalene	ND		ug/kg	1.00	0.287
C1-Naphthalenes	ND		ug/kg	1.00	0.287
C2-Naphthalenes	ND		ug/kg	1.00	0.287
C3-Naphthalenes	ND		ug/kg	1.00	0.287
C4-Naphthalenes	ND		ug/kg	1.00	0.287
2-Methylnaphthalene	ND		ug/kg	1.00	0.258
1-Methylnaphthalene	ND		ug/kg	1.00	0.315
Biphenyl	ND		ug/kg	1.00	0.309
2,6-Dimethylnaphthalene	ND		ug/kg	1.00	0.238
Dibenzofuran	ND		ug/kg	1.00	0.315
Acenaphthylene	ND		ug/kg	1.00	0.191
Acenaphthene	ND		ug/kg	1.00	0.176
2,3,5-Trimethylnaphthalene	ND		ug/kg	1.00	0.164
Fluorene	ND		ug/kg	1.00	0.267
C1-Fluorenes	ND		ug/kg	1.00	0.267
C2-Fluorenes	ND		ug/kg	1.00	0.267
C3-Fluorenes	ND		ug/kg	1.00	0.267
Dibenzothiophene	ND		ug/kg	1.00	0.276
C1-Dibenzothiophenes BS	ND		ug/kg	1.00	0.276
C2-Dibenzothiophenes	ND		ug/kg	1.00	0.276
C3-Dibenzothiophenes	ND		ug/kg	1.00	0.276
C4-Dibenzothiophenes	ND		ug/kg	1.00	0.276
Phenanthrene	ND		ug/kg	1.00	0.331
C1-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
C2-Phenanthrenes/Anthr BS	ND		ug/kg	1.00	0.331
C3-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
C4-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
Retene	ND		ug/kg	1.00	0.245
Anthracene	ND		ug/kg	1.00	0.206



**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM(M)  
Analytical Date: 09/23/21 16:14  
Analyst: CC

Extraction Method: ALPHA OP-013  
Extraction Date: 09/14/21 17:50  
Cleanup Method: EPA 3611B  
Cleanup Date: 09/23/21

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-03 Batch: WG1546324-1					
Fluoranthene	ND		ug/kg	1.00	0.318
Pyrene	ND		ug/kg	1.00	0.263
C1-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C2-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C3-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C4-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
Benz(a)anthracene	ND		ug/kg	1.00	0.204
Chrysene/Triphenylene	ND		ug/kg	1.00	0.202
C1-Chrysenes	ND		ug/kg	1.00	0.202
C2-Chrysenes BS	ND		ug/kg	1.00	0.202
C3-Chrysenes	ND		ug/kg	1.00	0.202
C4-Chrysenes	ND		ug/kg	1.00	0.202
Benzo(b)fluoranthene	ND		ug/kg	1.00	0.260
Benzo(j)+(k)fluoranthene	ND		ug/kg	1.00	0.198
Benzo(e)pyrene	ND		ug/kg	1.00	0.206
Benzo(a)pyrene	ND		ug/kg	1.00	0.285
Perylene	ND		ug/kg	1.00	0.193
Indeno(1,2,3-cd)pyrene	ND		ug/kg	1.00	0.271
Dibenz(a,h)+(a,c)anthracene	ND		ug/kg	1.00	0.270
Benzo(g,h,i)perylene	ND		ug/kg	1.00	0.266

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	79		50-130
Phenanthrene-d10	94		50-130
Benzo(a)pyrene-d12	94		50-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** GREEN BAY FORMER MGP

**Project Number:** 194010253

**Lab Number:** L2147972

**Report Date:** 09/29/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
PAHs - Mansfield Lab Associated sample(s): 01-03 Batch: WG1546324-2 WG1546324-3								
Naphthalene	80		81		50-130	1		30
2-Methylnaphthalene	78		79		50-130	1		30
Acenaphthylene	86		87		50-130	1		30
Acenaphthene	86		85		50-130	1		30
Fluorene	79		82		50-130	4		30
Phenanthrene	81		83		50-130	2		30
Anthracene	86		89		50-130	3		30
Fluoranthene	74		75		50-130	1		30
Pyrene	70		73		50-130	4		30
Benz(a)anthracene	87		89		50-130	2		30
Chrysene/Triphenylene	83		85		50-130	2		30
Benzo(b)fluoranthene	91		96		50-130	5		30
Benzo(j)+(k)fluoranthene	83		86		50-130	4		30
Benzo(a)pyrene	97		100		50-130	3		30
Indeno(1,2,3-cd)pyrene	94		100		50-130	6		30
Dibenz(a,h)+(a,c)anthracene	96		102		50-130	6		30
Benzo(g,h,i)perylene	94		97		50-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** GREEN BAY FORMER MGP

**Lab Number:** L2147972

**Project Number:** 194010253

**Report Date:** 09/29/21

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
PAHs - Mansfield Lab Associated sample(s): 01-03 Batch: WG1546324-2 WG1546324-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Naphthalene-d8	80		79		50-130
Phenanthrene-d10	87		89		50-130
Benzo(a)pyrene-d12	96		100		50-130

# PETROLEUM HYDROCARBONS

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

Lab ID: L2147972-01  
 Client ID: 090221011  
 Sample Location: GREEN BAY, WI

Date Collected: 09/02/21 13:20  
 Date Received: 09/08/21  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 09/28/21 01:37  
 Analyst: WR  
 Percent Solids: 42%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/14/21 20:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	2920		mg/kg	50.8	25.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	98		50-130
d50-Tetracosane	106		50-130

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

Lab ID: L2147972-02  
 Client ID: 090221015  
 Sample Location: GREEN BAY, WI

Date Collected: 09/02/21 16:40  
 Date Received: 09/08/21  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 09/28/21 03:03  
 Analyst: WR  
 Percent Solids: 41%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/14/21 20:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab</b>						
Total Petroleum Hydrocarbons (C9-C44)	2540		mg/kg	61.1	30.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		50-130
d50-Tetracosane	97		50-130

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**SAMPLE RESULTS**

Lab ID: L2147972-03  
 Client ID: 090221016  
 Sample Location: GREEN BAY, WI

Date Collected: 09/02/21 16:45  
 Date Received: 09/08/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 09/28/21 04:29  
 Analyst: WR  
 Percent Solids: 46%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/14/21 20:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab</b>						
Total Petroleum Hydrocarbons (C9-C44)	2170		mg/kg	37.1	18.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		50-130
d50-Tetracosane	100		50-130

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015D(M)  
Analytical Date: 09/27/21 17:00  
Analyst: WR

Extraction Method: ALPHA OP-013  
Extraction Date: 09/14/21 20:05

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01-03 Batch: WG1546318-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	2.20	1.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		50-130
d50-Tetracosane	97		50-130



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01-03 Batch: WG1546318-2 WG1546318-3								
Nonane (C9)	88		90		50-130	2		30
Decane (C10)	88		90		50-130	2		30
Dodecane (C12)	97		100		50-130	3		30
Tetradecane (C14)	94		95		50-130	1		30
Hexadecane (C16)	103		104		50-130	1		30
Octadecane (C18)	106		106		50-130	0		30
Nonadecane (C19)	99		98		50-130	1		30
Eicosane (C20)	100		100		50-130	0		30
Docosane (C22)	99		101		50-130	2		30
Tetracosane (C24)	101		103		50-130	2		30
Hexacosane (C26)	98		100		50-130	2		30
Octacosane (C28)	90		95		50-130	5		30
Triacontane (C30)	91		95		50-130	4		30
Hexatriacontane (C36)	78		82		50-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	99		99		50-130
d50-Tetracosane	97		98		50-130

# **INORGANICS & MISCELLANEOUS**

Project Name: GREEN BAY FORMER MGP

Lab Number: L2147972

Project Number: 194010253

Report Date: 09/29/21

## SAMPLE RESULTS

Lab ID: L2147972-01

Date Collected: 09/02/21 13:20

Client ID: 090221011

Date Received: 09/08/21

Sample Location: GREEN BAY, WI

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	42.4		%	0.100	0.100	1	-	09/09/21 15:36	121,2540G	NG



**Project Name:** GREEN BAY FORMER MGP**Lab Number:** L2147972**Project Number:** 194010253**Report Date:** 09/29/21**SAMPLE RESULTS**

Lab ID: L2147972-02

Date Collected: 09/02/21 16:40

Client ID: 090221015

Date Received: 09/08/21

Sample Location: GREEN BAY, WI

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	40.6		%	0.100	0.100	1	-	09/09/21 15:36	121,2540G	NG



**Project Name:** GREEN BAY FORMER MGP**Lab Number:** L2147972**Project Number:** 194010253**Report Date:** 09/29/21**SAMPLE RESULTS**

Lab ID: L2147972-03

Date Collected: 09/02/21 16:45

Client ID: 090221016

Date Received: 09/08/21

Sample Location: GREEN BAY, WI

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	46.1		%	0.100	0.100	1	-	09/10/21 11:12	121,2540G	NG



## Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** GREEN BAY FORMER MGP

**Project Number:** 194010253

**Lab Number:** L2147972

**Report Date:** 09/29/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1544407-1 QC Sample: L2145371-09 Client ID: DUP Sample						
Solids, Total	64.2	64.6	%	1		10
General Chemistry - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1544960-1 QC Sample: L2146871-01 Client ID: DUP Sample						
Solids, Total	22.4	23.2	%	4		10

**Project Name:** GREEN BAY FORMER MGP**Lab Number:** L2147972**Project Number:** 194010253**Report Date:** 09/29/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Present/Intact

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2147972-01A	Glass 250ml/8oz unpreserved	A	NA		1.7	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7),A2-PHI(14)
L2147972-01B	Glass 250ml/8oz unpreserved	A	NA		1.7	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7),A2-PHI(14)
L2147972-02A	Glass 250ml/8oz unpreserved	A	NA		1.7	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7),A2-PHI(14)
L2147972-02B	Glass 250ml/8oz unpreserved	A	NA		1.7	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7),A2-PHI(14)
L2147972-03A	Glass 250ml/8oz unpreserved	A	NA		1.7	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7),A2-PHI(14)
L2147972-03B	Glass 250ml/8oz unpreserved	A	NA		1.7	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7),A2-PHI(14)

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers





**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

#### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

**Data Qualifiers**

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

**Project Name:** GREEN BAY FORMER MGP  
**Project Number:** 194010253

**Lab Number:** L2147972  
**Report Date:** 09/29/21

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625/625.1:** alpha-Terpineol

**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

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The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

**SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



# CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 9/8/21

ALPHA Job #: L2147972

## Client Information

Client: RAMBOLL  
Address: 234 W. FLORENDA ST.  
MILWAUKEE WI 53204  
Phone: 414-335-3563  
Fax: \_\_\_\_\_  
Email: STACE.GOETZ@RAMBOLL.COM  
 These samples have been previously analyzed by Alpha

## Project Information

Project Name: GREEN BAY FORCER MGP  
Project Location: GREEN BAY, WI  
Project #: 194010253  
Project Manager: STACE GOETZ  
ALPHA Quote #:

## Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client Info PO #:

## Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)  
Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

## Regulatory Requirements/Report Limits

State /Fed Program \_\_\_\_\_ Criteria \_\_\_\_\_

## Other Project Specific Requirements/Comments/Detection Limits:

CCC #: 194010253-003-0921  
CUSTODY SEAL #S: 194010253-001  
194010253-002

ANALYSIS

AUX PH (49) 8/20/21

IPH-PHE (0015)

SAMPLE(S)

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

Preservation \_\_\_\_\_

Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials			TOTAL # BOTTLES
		Date	Time					
47972-01	090221011	9/2/21	1320	S	DTU	X	X	
02	090221015	9/2/21	1640	S	DTU	X	X	
03	090221016	9/2/21	1645	S	DTU	X	X	

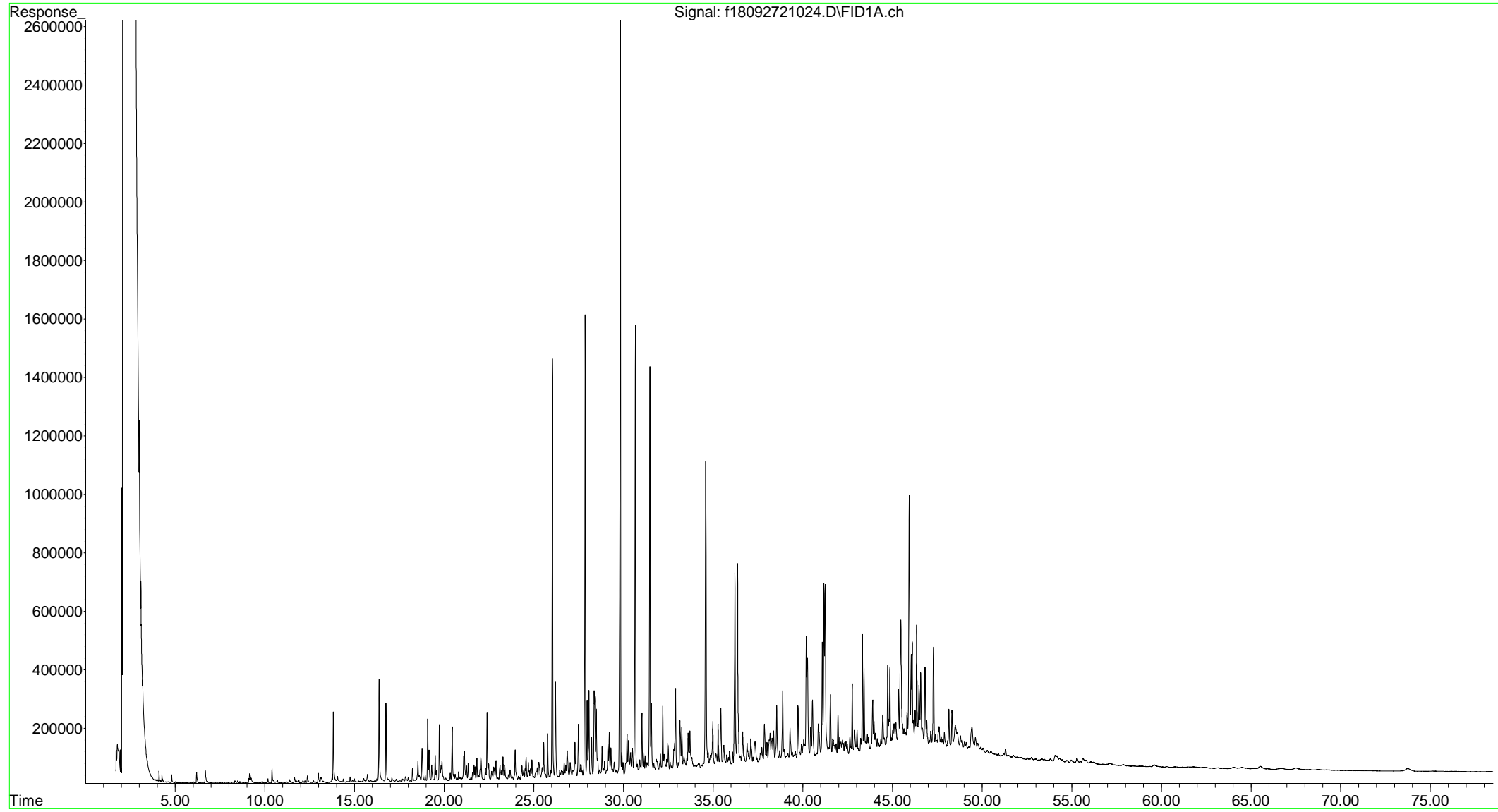
Container Type G G  
Preservative A A

Relinquished By: [Signature] / Ramboll  
Date/Time: 9/7/21 @ 1500  
Received By: [Signature] / Fedex  
Date/Time: 9/8/21 0824

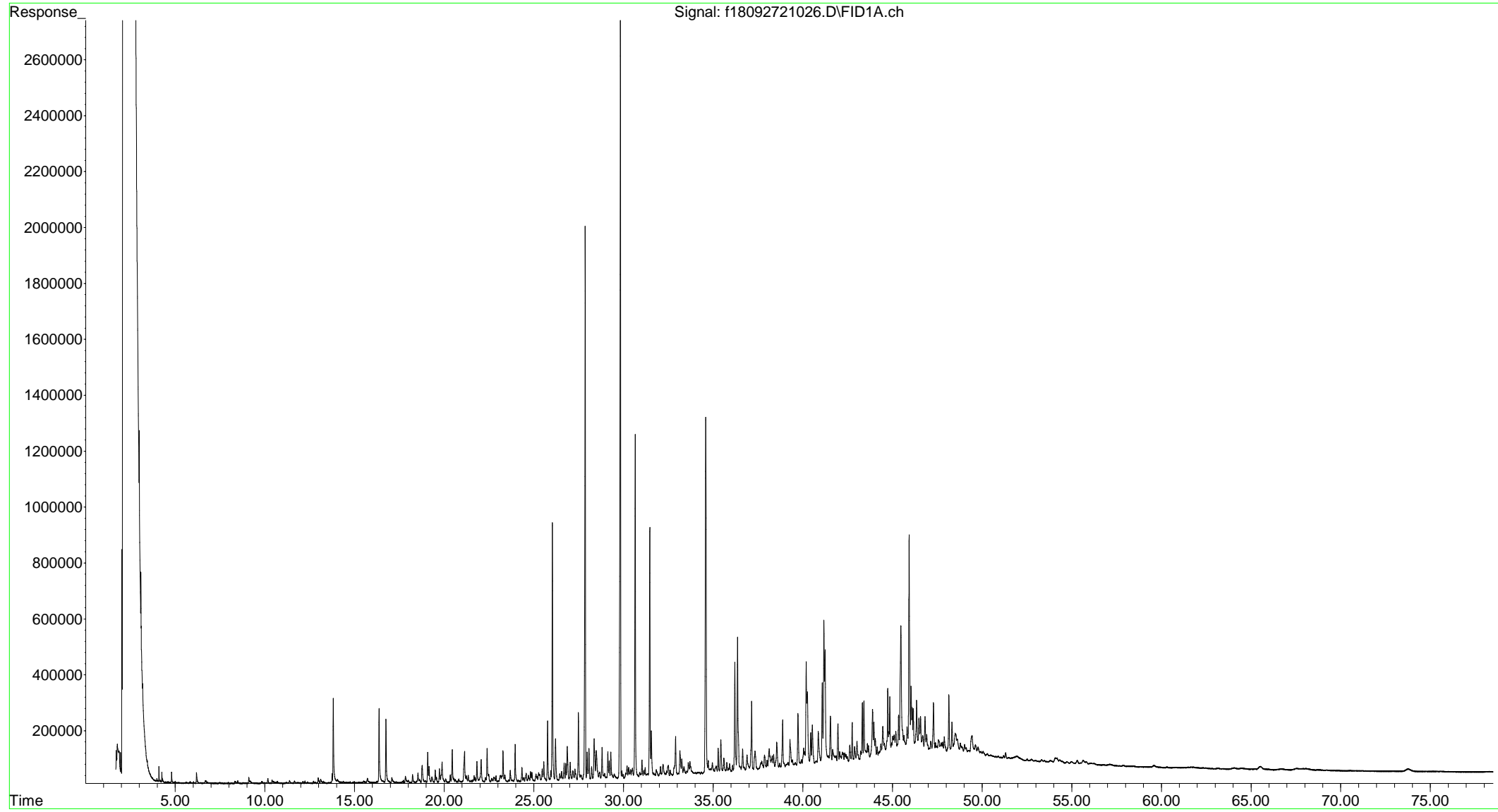
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

# GC-FID Chromatogram

File :O:\Forensics\Data\FID18\2021\SEP\SEP27\f18092721024.D  
Operator : FID18:WR  
Acquired : 28 Sep 2021 01:37 am using AcqMethod FID18.M  
Instrument : FID 18  
Sample Name: L2147972-01,42,,  
Misc Info : WG1550533,WG1546318,ICAL17764  
Vial Number: 12

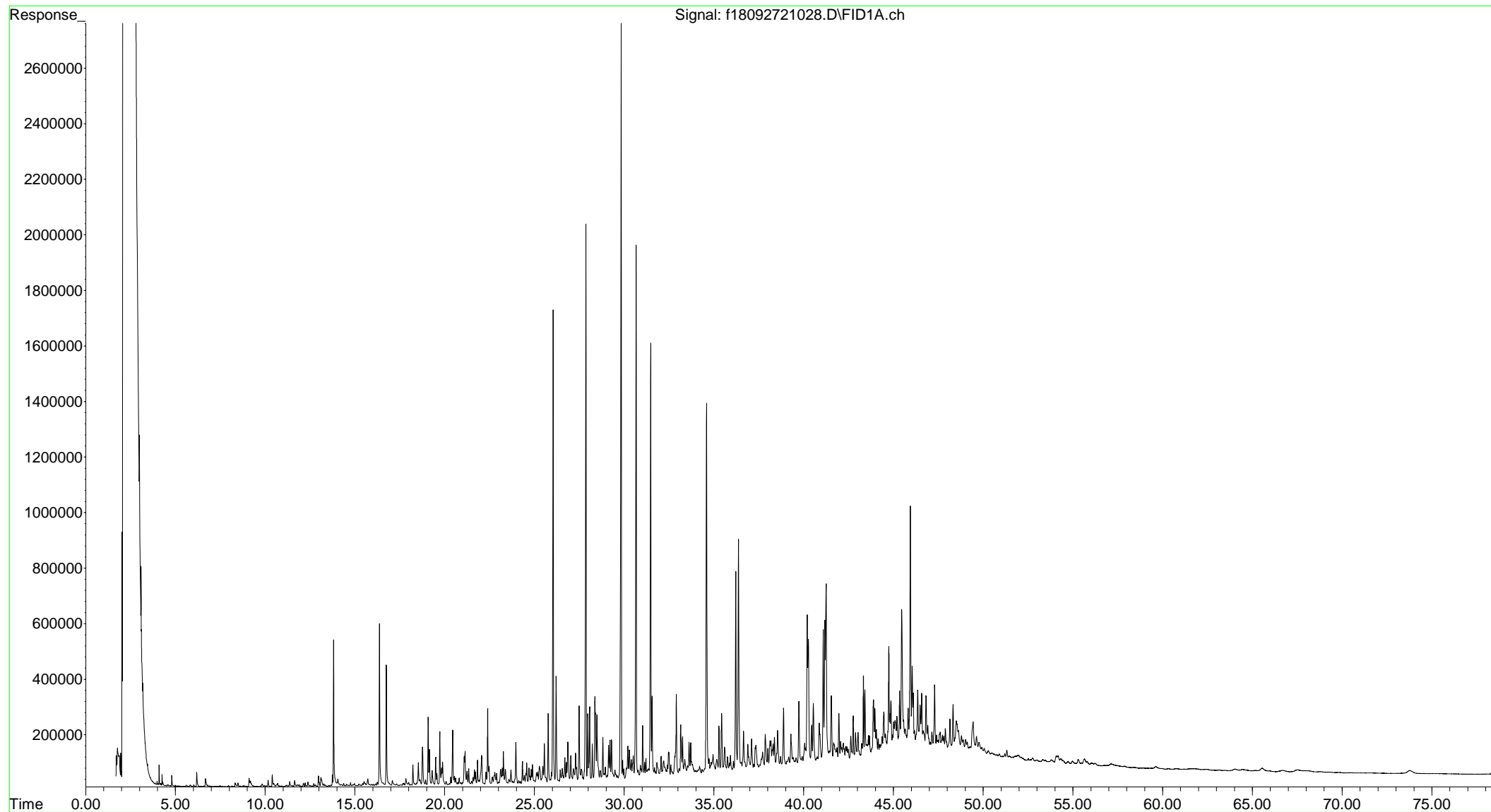


File :O:\Forensics\Data\FID18\2021\SEP\SEP27\f18092721026.D  
Operator : FID18:WR  
Acquired : 28 Sep 2021 03:03 am using AcqMethod FID18.M  
Instrument : FID 18  
Sample Name: L2147972-02,42,,  
Misc Info : WG1550533,WG1546318,ICAL17764  
Vial Number: 13

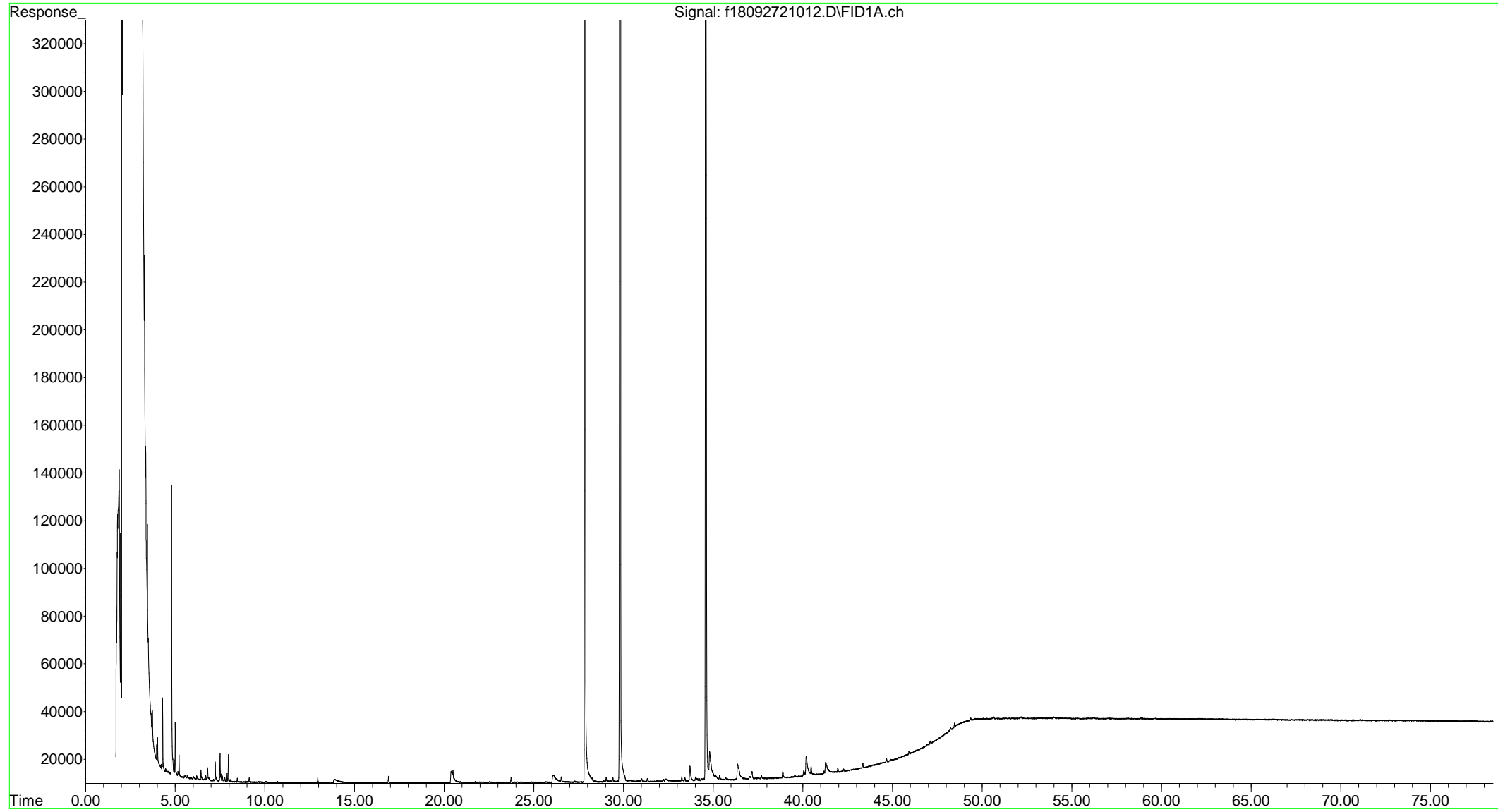




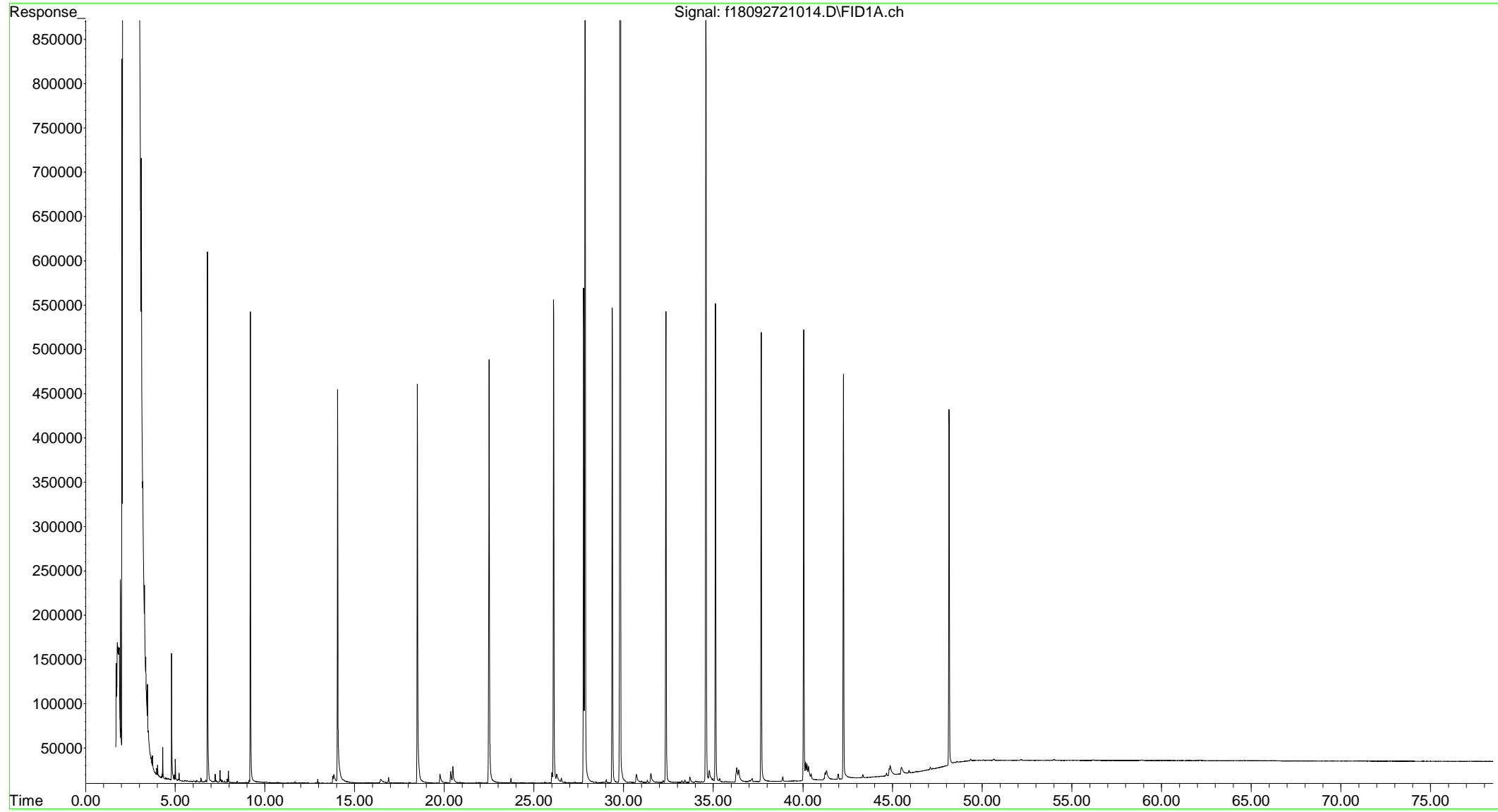
File :O:\Forensics\Data\FID18\2021\SEP\SEP27\f18092721028.D  
Operator : FID18:WR  
Acquired : 28 Sep 2021 04:29 am using AcqMethod FID18.M  
Instrument : FID 18  
Sample Name: L2147972-03,42,,  
Misc Info : WG1550533,WG1546318,ICAL17764  
Vial Number: 14



File :O:\Forensics\Data\FID18\2021\SEP\SEP27\f18092721012.D  
Operator : FID18:WR  
Acquired : 27 Sep 2021 05:00 pm using AcqMethod FID18.M  
Instrument : FID 18  
Sample Name: WG1546318-1,42,,  
Misc Info : WG1550533,WG1546318,ICAL17764  
Vial Number: 6

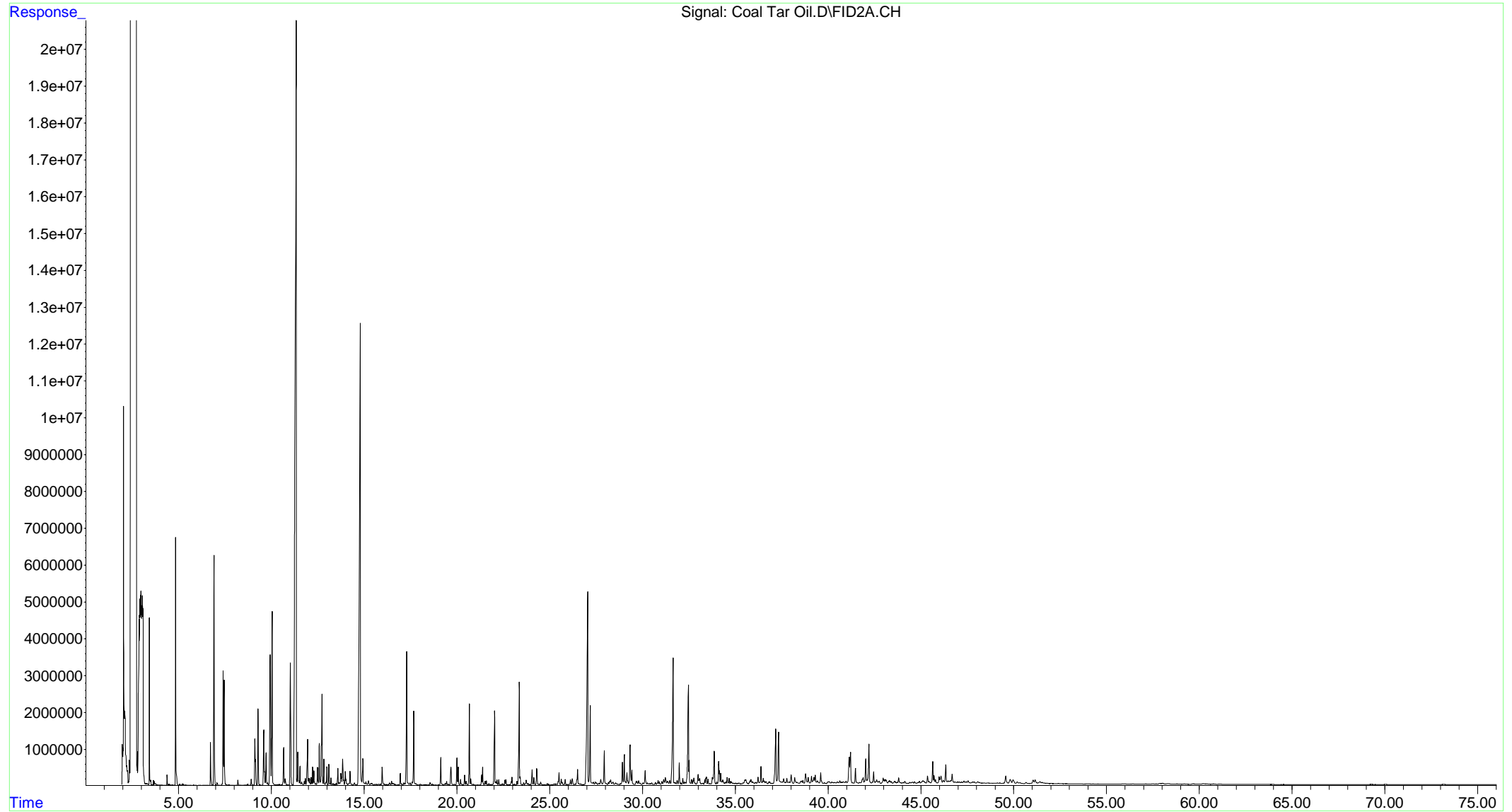


File :O:\Forensics\Data\FID18\2021\SEP\SEP27\f18092721014.D  
Operator : FID18:WR  
Acquired : 27 Sep 2021 06:26 pm using AcqMethod FID18.M  
Instrument : FID 18  
Sample Name: WG1546318-2,42,,  
Misc Info : WG1550533,WG1546318,ICAL17764  
Vial Number: 7

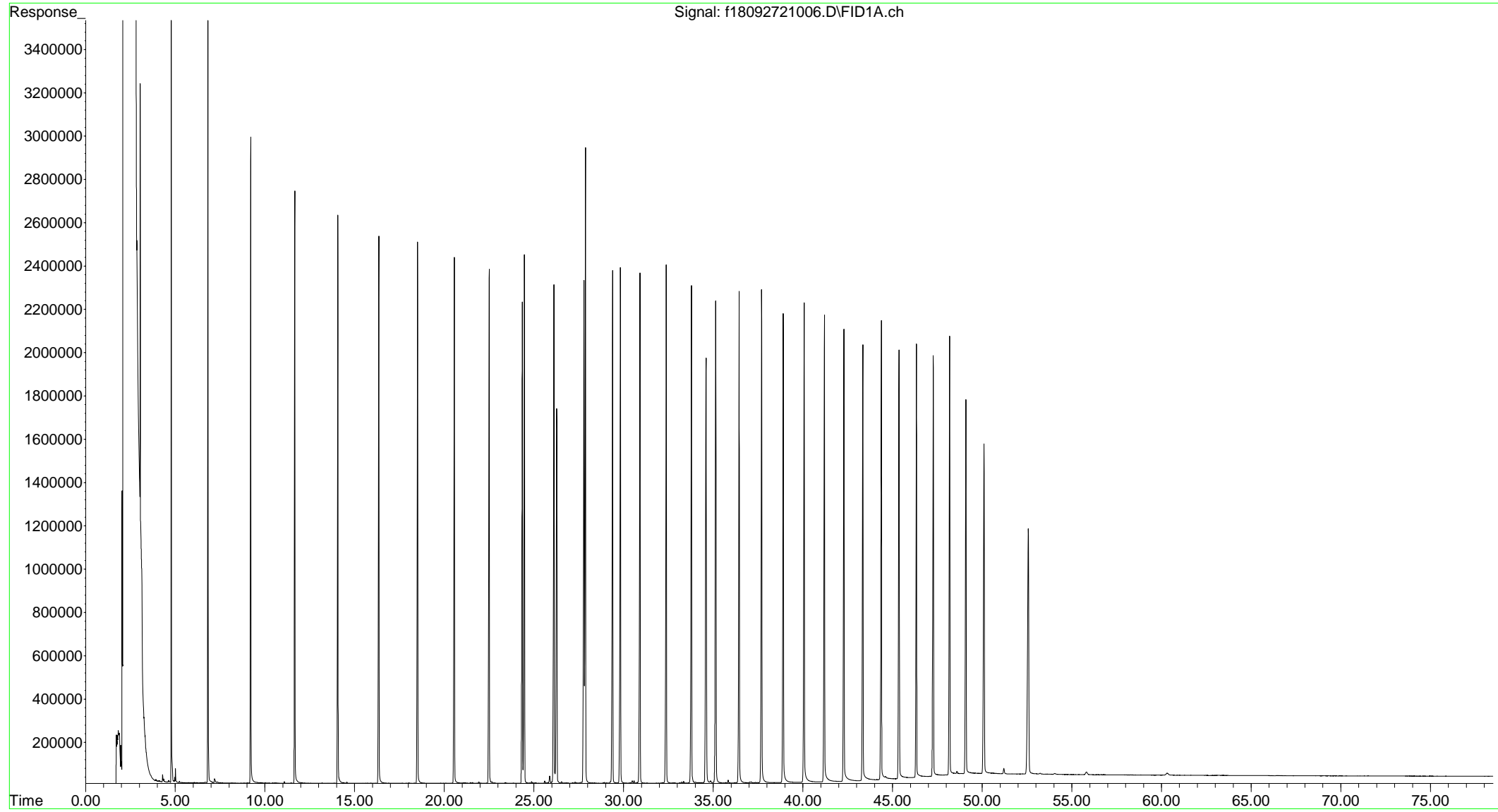


# **Petroleum Reference Standards**

File :O:\Forensics\Data\LIBRARY\Hydrocarbon Reference Standards\Coal Tar Oil.D  
... al Tar Oil.D  
Operator : DMP  
Instrument : PAH2  
Acquired : 08 Aug 2013 6:49 pm using AcqMethod FRNC2A.M  
Sample : Coal Tar Oil  
Misc Info : Chem Service Pz-123 (F031908K)



File :O:\Forensics\Data\FID18\2021\SEP\SEP27\f18092721006.D  
Operator : FID18:WR  
Acquired : 27 Sep 2021 12:42 pm using AcqMethod FID18.M  
Instrument : FID 18  
Sample Name: WG1550533-1  
Misc Info : WG1550533,FRBE18,ICAL17764  
Vial Number: 3



September 20, 2021

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

RE: Project: 70712 GREEN BAY FORMER MGP  
Pace Project No.: 40232700

Dear Staci Goetz:

Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 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, OBG  
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: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

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### **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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40232700001	090121001	Water	09/01/21 12:00	09/02/21 17:20
40232700002	090121002	Water	09/01/21 12:05	09/02/21 17:20
40232700003	090121003	Water	09/01/21 00:00	09/02/21 17:20

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40232700001	090121001	EPA 6020B	KXS	15
		EPA 7470	AJT	1
		EPA 8270E by SIM	RJN	19
		EPA 8260	JAV	11
40232700002	090121002	EPA 6020B	KXS	15
		EPA 7470	AJT	1
		EPA 8270E by SIM	RJN	19
		EPA 8260	JAV	11
40232700003	090121003	EPA 8260	JAV	11

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

---

**Method:** EPA 6020B

**Description:** 6020B MET ICPMS

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

**Date:** September 20, 2021

**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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

---

**Method:** EPA 7470

**Description:** 7470 Mercury

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

**Date:** September 20, 2021

**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: 70712 GREEN BAY FORMER MGP  
Pace Project No.: 40232700

---

**Method:** EPA 8270E by SIM  
**Description:** 8270E MSSV PAH  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** September 20, 2021

### 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.

QC Batch: 394965

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCSD (Lab ID: 2279080)
  - Benzo(a)anthracene
  - Dibenz(a,h)anthracene

### Matrix Spikes:

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

QC Batch: 394965

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

---

**Method:** EPA 8270E by SIM

**Description:** 8270E MSSV PAH

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

**Date:** September 20, 2021

### Batch Comments:

Two compounds failed high in the LCSD, there was either no hold time available for re-extraction, or there were no detects of offending compounds

- QC Batch: 395039

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

---

**Method:** EPA 8260

**Description:** 8260 MSV UST

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

**Date:** September 20, 2021

**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

This report shall not be reproduced, except in full,  
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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

**Sample: 090121001**      **Lab ID: 40232700001**      Collected: 09/01/21 12:00      Received: 09/02/21 17:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Aluminum	842	ug/L	250	58.7	1	09/14/21 06:34	09/14/21 19:16	7429-90-5	
Antimony	0.28J	ug/L	1.0	0.15	1	09/14/21 06:34	09/14/21 19:16	7440-36-0	
Arsenic	1.6	ug/L	1.0	0.28	1	09/14/21 06:34	09/14/21 19:16	7440-38-2	
Barium	30.2	ug/L	2.3	0.70	1	09/14/21 06:34	09/14/21 19:16	7440-39-3	
Cadmium	<0.15	ug/L	1.0	0.15	1	09/14/21 06:34	09/14/21 19:16	7440-43-9	
Chromium	1.6J	ug/L	3.4	1.0	1	09/14/21 06:34	09/14/21 19:16	7440-47-3	
Copper	6.2J	ug/L	6.4	1.9	1	09/14/21 06:34	09/14/21 19:16	7440-50-8	
Iron	1100	ug/L	250	58.0	1	09/14/21 06:34	09/14/21 19:16	7439-89-6	
Lead	0.80J	ug/L	1.0	0.24	1	09/14/21 06:34	09/14/21 19:16	7439-92-1	
Manganese	74.2	ug/L	4.0	1.2	1	09/14/21 06:34	09/14/21 19:16	7439-96-5	
Nickel	2.6	ug/L	1.0	0.28	1	09/14/21 06:34	09/14/21 19:16	7440-02-0	
Selenium	0.46J	ug/L	1.1	0.32	1	09/14/21 06:34	09/14/21 19:16	7782-49-2	
Silver	<0.13	ug/L	0.50	0.13	1	09/14/21 06:34	09/14/21 19:16	7440-22-4	
Vanadium	4.5	ug/L	1.0	0.32	1	09/14/21 06:34	09/14/21 19:16	7440-62-2	
Zinc	10.6J	ug/L	34.4	10.3	1	09/14/21 06:34	09/14/21 19:16	7440-66-6	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	09/09/21 10:20	09/10/21 09:07	7439-97-6	
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	<0.013	ug/L	0.045	0.013	1	09/07/21 09:15	09/08/21 12:50	83-32-9	
Acenaphthylene	<0.011	ug/L	0.045	0.011	1	09/07/21 09:15	09/08/21 12:50	208-96-8	
Anthracene	<0.017	ug/L	0.045	0.017	1	09/07/21 09:15	09/08/21 12:50	120-12-7	
Benzo(a)anthracene	<0.012	ug/L	0.045	0.012	1	09/07/21 09:15	09/08/21 12:50	56-55-3	L1
Benzo(a)pyrene	<0.018	ug/L	0.045	0.018	1	09/07/21 09:15	09/08/21 12:50	50-32-8	
Benzo(b)fluoranthene	<0.018	ug/L	0.045	0.018	1	09/07/21 09:15	09/08/21 12:50	205-99-2	
Benzo(g,h,i)perylene	<0.021	ug/L	0.045	0.021	1	09/07/21 09:15	09/08/21 12:50	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.045	0.020	1	09/07/21 09:15	09/08/21 12:50	207-08-9	
Chrysene	<0.024	ug/L	0.045	0.024	1	09/07/21 09:15	09/08/21 12:50	218-01-9	
Dibenz(a,h)anthracene	<0.016	ug/L	0.045	0.016	1	09/07/21 09:15	09/08/21 12:50	53-70-3	L1
Fluoranthene	<0.024	ug/L	0.045	0.024	1	09/07/21 09:15	09/08/21 12:50	206-44-0	
Fluorene	<0.021	ug/L	0.045	0.021	1	09/07/21 09:15	09/08/21 12:50	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.014	ug/L	0.045	0.014	1	09/07/21 09:15	09/08/21 12:50	193-39-5	
2-Methylnaphthalene	0.032J	ug/L	0.045	0.012	1	09/07/21 09:15	09/08/21 12:50	91-57-6	
Naphthalene	0.076	ug/L	0.045	0.018	1	09/07/21 09:15	09/08/21 12:50	91-20-3	
Phenanthrene	<0.023	ug/L	0.045	0.023	1	09/07/21 09:15	09/08/21 12:50	85-01-8	
Pyrene	<0.020	ug/L	0.045	0.020	1	09/07/21 09:15	09/08/21 12:50	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	57	%	10-113		1	09/07/21 09:15	09/08/21 12:50	321-60-8	
Terphenyl-d14 (S)	70	%	28-124		1	09/07/21 09:15	09/08/21 12:50	1718-51-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY FORMER MGP  
Pace Project No.: 40232700

**Sample: 090121001**      **Lab ID: 40232700001**      Collected: 09/01/21 12:00      Received: 09/02/21 17:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/07/21 15:14	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/07/21 15:14	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/07/21 15:14	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/07/21 15:14	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/07/21 15:14	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		09/07/21 15:14	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/07/21 15:14	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/07/21 15:14	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	70-130		1		09/07/21 15:14	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		09/07/21 15:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		09/07/21 15:14	2199-69-1	

**Sample: 090121002**      **Lab ID: 40232700002**      Collected: 09/01/21 12:05      Received: 09/02/21 17:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum	<b>886</b>	ug/L	250	58.7	1	09/14/21 06:34	09/14/21 19:45	7429-90-5	
Antimony	<b>0.28J</b>	ug/L	1.0	0.15	1	09/14/21 06:34	09/14/21 19:45	7440-36-0	
Arsenic	<b>1.6</b>	ug/L	1.0	0.28	1	09/14/21 06:34	09/14/21 19:45	7440-38-2	
Barium	<b>30.7</b>	ug/L	2.3	0.70	1	09/14/21 06:34	09/14/21 19:45	7440-39-3	
Cadmium	<b>0.15J</b>	ug/L	1.0	0.15	1	09/14/21 06:34	09/14/21 19:45	7440-43-9	
Chromium	<b>1.7J</b>	ug/L	3.4	1.0	1	09/14/21 06:34	09/14/21 19:45	7440-47-3	
Copper	<b>6.7</b>	ug/L	6.4	1.9	1	09/14/21 06:34	09/14/21 19:45	7440-50-8	
Iron	<b>1100</b>	ug/L	250	58.0	1	09/14/21 06:34	09/14/21 19:45	7439-89-6	
Lead	<b>0.81J</b>	ug/L	1.0	0.24	1	09/14/21 06:34	09/14/21 19:45	7439-92-1	
Manganese	<b>73.9</b>	ug/L	4.0	1.2	1	09/14/21 06:34	09/14/21 19:45	7439-96-5	
Nickel	<b>2.6</b>	ug/L	1.0	0.28	1	09/14/21 06:34	09/14/21 19:45	7440-02-0	
Selenium	<b>0.57J</b>	ug/L	1.1	0.32	1	09/14/21 06:34	09/14/21 19:45	7782-49-2	
Silver	<0.13	ug/L	0.50	0.13	1	09/14/21 06:34	09/14/21 19:45	7440-22-4	
Vanadium	<b>4.7</b>	ug/L	1.0	0.32	1	09/14/21 06:34	09/14/21 19:45	7440-62-2	
Zinc	<b>12.0J</b>	ug/L	34.4	10.3	1	09/14/21 06:34	09/14/21 19:45	7440-66-6	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470      Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	09/09/21 10:20	09/10/21 09:14	7439-97-6	
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	<0.012	ug/L	0.045	0.012	1	09/07/21 09:15	09/08/21 13:08	83-32-9	
Acenaphthylene	<0.011	ug/L	0.045	0.011	1	09/07/21 09:15	09/08/21 13:08	208-96-8	

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY FORMER MGP  
Pace Project No.: 40232700

**Sample: 090121002**      **Lab ID: 40232700002**      Collected: 09/01/21 12:05      Received: 09/02/21 17:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Anthracene	<0.017	ug/L	0.045	0.017	1	09/07/21 09:15	09/08/21 13:08	120-12-7	
Benzo(a)anthracene	<0.012	ug/L	0.045	0.012	1	09/07/21 09:15	09/08/21 13:08	56-55-3	L1
Benzo(a)pyrene	<0.018	ug/L	0.045	0.018	1	09/07/21 09:15	09/08/21 13:08	50-32-8	
Benzo(b)fluoranthene	<0.017	ug/L	0.045	0.017	1	09/07/21 09:15	09/08/21 13:08	205-99-2	
Benzo(g,h,i)perylene	<0.021	ug/L	0.045	0.021	1	09/07/21 09:15	09/08/21 13:08	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.045	0.020	1	09/07/21 09:15	09/08/21 13:08	207-08-9	
Chrysene	<0.024	ug/L	0.045	0.024	1	09/07/21 09:15	09/08/21 13:08	218-01-9	
Dibenz(a,h)anthracene	<0.016	ug/L	0.045	0.016	1	09/07/21 09:15	09/08/21 13:08	53-70-3	L1
Fluoranthene	<0.023	ug/L	0.045	0.023	1	09/07/21 09:15	09/08/21 13:08	206-44-0	
Fluorene	<0.021	ug/L	0.045	0.021	1	09/07/21 09:15	09/08/21 13:08	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.014	ug/L	0.045	0.014	1	09/07/21 09:15	09/08/21 13:08	193-39-5	
2-Methylnaphthalene	0.018J	ug/L	0.045	0.012	1	09/07/21 09:15	09/08/21 13:08	91-57-6	
Naphthalene	0.048	ug/L	0.045	0.018	1	09/07/21 09:15	09/08/21 13:08	91-20-3	
Phenanthrene	<0.023	ug/L	0.045	0.023	1	09/07/21 09:15	09/08/21 13:08	85-01-8	
Pyrene	<0.020	ug/L	0.045	0.020	1	09/07/21 09:15	09/08/21 13:08	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	42	%	10-113		1	09/07/21 09:15	09/08/21 13:08	321-60-8	
Terphenyl-d14 (S)	48	%	28-124		1	09/07/21 09:15	09/08/21 13:08	1718-51-0	

<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/07/21 15:33	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/07/21 15:33	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/07/21 15:33	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/07/21 15:33	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/07/21 15:33	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		09/07/21 15:33	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/07/21 15:33	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/07/21 15:33	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	99	%	70-130		1		09/07/21 15:33	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		09/07/21 15:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		09/07/21 15:33	2199-69-1	

**Sample: 090121003**      **Lab ID: 40232700003**      Collected: 09/01/21 00:00      Received: 09/02/21 17:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/07/21 12:58	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/07/21 12:58	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/07/21 12:58	108-88-3	

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## ANALYTICAL RESULTS

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

**Sample: 090121003**      **Lab ID: 40232700003**      Collected: 09/01/21 00:00      Received: 09/02/21 17:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/07/21 12:58	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/07/21 12:58	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		09/07/21 12:58	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/07/21 12:58	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/07/21 12:58	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	70-130		1		09/07/21 12:58	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		09/07/21 12:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		09/07/21 12:58	2199-69-1	

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

QC Batch: 395238

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232700001, 40232700002

METHOD BLANK: 2280173

Matrix: Water

Associated Lab Samples: 40232700001, 40232700002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	09/10/21 09:03	

LABORATORY CONTROL SAMPLE: 2280174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2280175 2280176

Parameter	Units	2280175		2280176		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40232700001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	ug/L	<0.066	5	5	5.2	5.1	103	102	85-115	1	20	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY FORMER MGP  
Pace Project No.: 40232700

QC Batch: 395592 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3010A Analysis Description: 6020B MET  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232700001, 40232700002

METHOD BLANK: 2282318 Matrix: Water

Associated Lab Samples: 40232700001, 40232700002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<58.7	250	09/14/21 19:01	
Antimony	ug/L	<0.15	1.0	09/14/21 19:01	
Arsenic	ug/L	<0.28	1.0	09/14/21 19:01	
Barium	ug/L	<0.70	2.3	09/14/21 19:01	
Cadmium	ug/L	<0.15	1.0	09/14/21 19:01	
Chromium	ug/L	<1.0	3.4	09/14/21 19:01	
Copper	ug/L	<1.9	6.4	09/14/21 19:01	
Iron	ug/L	<58.0	250	09/14/21 19:01	
Lead	ug/L	<0.24	1.0	09/14/21 19:01	
Manganese	ug/L	<1.2	4.0	09/14/21 19:01	
Nickel	ug/L	<0.28	1.0	09/14/21 19:01	
Selenium	ug/L	<0.32	1.1	09/14/21 19:01	
Silver	ug/L	<0.13	0.50	09/14/21 19:01	
Vanadium	ug/L	<0.32	1.0	09/14/21 19:01	
Zinc	ug/L	<10.3	34.4	09/14/21 19:01	

LABORATORY CONTROL SAMPLE: 2282319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10300	103	80-120	
Antimony	ug/L	250	254	102	80-120	
Arsenic	ug/L	250	256	103	80-120	
Barium	ug/L	250	249	100	80-120	
Cadmium	ug/L	250	260	104	80-120	
Chromium	ug/L	250	252	101	80-120	
Copper	ug/L	250	257	103	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lead	ug/L	250	239	95	80-120	
Manganese	ug/L	250	248	99	80-120	
Nickel	ug/L	250	254	101	80-120	
Selenium	ug/L	250	251	101	80-120	
Silver	ug/L	125	126	100	80-120	
Vanadium	ug/L	250	252	101	80-120	
Zinc	ug/L	250	265	106	80-120	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY FORMER MGP  
Pace Project No.: 40232700

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2282320		2282321		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232700001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Aluminum	ug/L	842	10000	10000	11100	11200	102	103	75-125	1	20		
Antimony	ug/L	0.28J	250	250	253	251	101	100	75-125	1	20		
Arsenic	ug/L	1.6	250	250	252	253	100	101	75-125	0	20		
Barium	ug/L	30.2	250	250	280	279	100	99	75-125	0	20		
Cadmium	ug/L	<0.15	250	250	251	253	101	101	75-125	1	20		
Chromium	ug/L	1.6J	250	250	248	253	99	100	75-125	2	20		
Copper	ug/L	6.2J	250	250	250	252	98	98	75-125	0	20		
Iron	ug/L	1100	10000	10000	10900	11000	98	99	75-125	1	20		
Lead	ug/L	0.80J	250	250	242	245	96	98	75-125	1	20		
Manganese	ug/L	74.2	250	250	318	321	98	99	75-125	1	20		
Nickel	ug/L	2.6	250	250	244	246	96	97	75-125	1	20		
Selenium	ug/L	0.46J	250	250	244	248	98	99	75-125	2	20		
Silver	ug/L	<0.13	125	125	118	121	94	96	75-125	2	20		
Vanadium	ug/L	4.5	250	250	251	255	99	100	75-125	2	20		
Zinc	ug/L	10.6J	250	250	266	270	102	104	75-125	1	20		

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**QUALITY CONTROL DATA**

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

QC Batch:	394947	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40232700001, 40232700002, 40232700003

METHOD BLANK: 2279021 Matrix: Water

Associated Lab Samples: 40232700001, 40232700002, 40232700003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	09/07/21 10:23	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	09/07/21 10:23	
Benzene	ug/L	<0.30	1.0	09/07/21 10:23	
Ethylbenzene	ug/L	<0.33	1.0	09/07/21 10:23	
m&p-Xylene	ug/L	<0.70	2.0	09/07/21 10:23	
o-Xylene	ug/L	<0.35	1.0	09/07/21 10:23	
Toluene	ug/L	<0.29	1.0	09/07/21 10:23	
Xylene (Total)	ug/L	<1.0	3.0	09/07/21 10:23	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	09/07/21 10:23	
4-Bromofluorobenzene (S)	%	98	70-130	09/07/21 10:23	
Toluene-d8 (S)	%	99	70-130	09/07/21 10:23	

LABORATORY CONTROL SAMPLE: 2279022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	48.2	96	70-132	
Ethylbenzene	ug/L	50	48.5	97	80-123	
m&p-Xylene	ug/L	100	96.8	97	70-130	
o-Xylene	ug/L	50	49.3	99	70-130	
Toluene	ug/L	50	48.6	97	80-121	
Xylene (Total)	ug/L	150	146	97	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279108 2279109

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232657002 Result	Spike Conc.	Spike Conc.	MS Conc.								
Benzene	ug/L	7.1	59.6	59.6	68.6	68.7	103	103	70-132	0	20		
Ethylbenzene	ug/L	2.4	59.6	59.6	65.1	64.1	105	103	80-123	2	20		
m&p-Xylene	ug/L	<2.0	119	119	126	125	105	104	70-130	1	20		
o-Xylene	ug/L	<1.0	59.6	59.6	62.2	63.4	104	106	70-130	2	20		
Toluene	ug/L	<1.0	59.6	59.6	61.5	61.2	103	103	80-121	1	20		
Xylene (Total)	ug/L	<3.0	179	179	189	188	105	104	70-130	0	20		
1,2-Dichlorobenzene-d4 (S)	%						100	99	70-130				
4-Bromofluorobenzene (S)	%						101	98	70-130				

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2279108		2279109									
Parameter	Units	40232657002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Toluene-d8 (S)	%						99	98	70-130				

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY FORMER MGP  
Pace Project No.: 40232700

QC Batch: 394965 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: 40232700001, 40232700002

METHOD BLANK: 2279078 Matrix: Water

Associated Lab Samples: 40232700001, 40232700002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	ug/L	<0.014	0.050	09/08/21 07:55	
Acenaphthene	ug/L	<0.014	0.050	09/08/21 07:55	
Acenaphthylene	ug/L	<0.013	0.050	09/08/21 07:55	
Anthracene	ug/L	<0.018	0.050	09/08/21 07:55	
Benzo(a)anthracene	ug/L	<0.014	0.050	09/08/21 07:55	
Benzo(a)pyrene	ug/L	<0.020	0.050	09/08/21 07:55	
Benzo(b)fluoranthene	ug/L	<0.020	0.050	09/08/21 07:55	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	09/08/21 07:55	
Benzo(k)fluoranthene	ug/L	<0.022	0.050	09/08/21 07:55	
Chrysene	ug/L	<0.027	0.050	09/08/21 07:55	
Dibenz(a,h)anthracene	ug/L	<0.018	0.050	09/08/21 07:55	
Fluoranthene	ug/L	<0.026	0.050	09/08/21 07:55	
Fluorene	ug/L	<0.024	0.050	09/08/21 07:55	
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	0.050	09/08/21 07:55	
Naphthalene	ug/L	<0.020	0.050	09/08/21 07:55	
Phenanthrene	ug/L	<0.026	0.050	09/08/21 07:55	
Pyrene	ug/L	<0.023	0.050	09/08/21 07:55	
2-Fluorobiphenyl (S)	%	85	10-113	09/08/21 07:55	
Terphenyl-d14 (S)	%	87	28-124	09/08/21 07:55	

LABORATORY CONTROL SAMPLE & LCSD: 2279079 2279080

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Methylnaphthalene	ug/L	2	1.6	1.7	80	87	68-120	8	20	
Acenaphthene	ug/L	2	1.7	1.9	85	93	71-120	10	20	
Acenaphthylene	ug/L	2	1.7	1.9	87	95	68-120	9	20	
Anthracene	ug/L	2	1.7	1.9	87	95	51-99	10	20	
Benzo(a)anthracene	ug/L	2	1.8	1.9	88	96	52-92	9	20	L1
Benzo(a)pyrene	ug/L	2	1.7	1.9	85	94	61-105	11	20	
Benzo(b)fluoranthene	ug/L	2	1.7	1.9	87	95	57-102	8	20	
Benzo(g,h,i)perylene	ug/L	2	1.8	2.1	92	103	62-120	11	20	
Benzo(k)fluoranthene	ug/L	2	1.8	2.0	91	101	70-122	11	20	
Chrysene	ug/L	2	1.8	2.0	90	99	71-122	9	20	
Dibenz(a,h)anthracene	ug/L	2	1.9	2.1	95	106	41-101	11	20	L1
Fluoranthene	ug/L	2	1.9	2.1	94	105	67-116	11	20	
Fluorene	ug/L	2	1.8	1.9	88	97	71-120	10	20	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.8	2.1	92	103	59-120	12	20	
Naphthalene	ug/L	2	1.6	1.8	82	90	71-120	10	20	
Phenanthrene	ug/L	2	1.7	1.9	87	96	60-102	10	20	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

Parameter	Units	2279079		2279080		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec						
Pyrene	ug/L	2	1.7	1.8	84	92	72-120	9	20		
2-Fluorobiphenyl (S)	%				75	81	10-113				
Terphenyl-d14 (S)	%				76	84	28-124				

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## QUALIFIERS

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

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### 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.

### BATCH QUALIFIERS

Batch: 395039

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

[1] Two compounds failed high in the LCSD, there was either no hold time available for re-extraction, or there were no detects of offending compounds

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70712 GREEN BAY FORMER MGP

Pace Project No.: 40232700

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40232700001	090121001	EPA 3010A	395592	EPA 6020B	395682
40232700002	090121002	EPA 3010A	395592	EPA 6020B	395682
40232700001	090121001	EPA 7470	395238	EPA 7470	395285
40232700002	090121002	EPA 7470	395238	EPA 7470	395285
40232700001	090121001	EPA 3510	394965	EPA 8270E by SIM	395039
40232700002	090121002	EPA 3510	394965	EPA 8270E by SIM	395039
40232700001	090121001	EPA 8260	394947		
40232700002	090121002	EPA 8260	394947		
40232700003	090121003	EPA 8260	394947		

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Document Name: **Sample Condition Upon Receipt (SCUR)**  
Document No.: **ENV-FRM-GBAY-0014-Rev.00**

Document Revised: 26Mar2020  
Author: Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Client Name: Ramboll

Project #: \_\_\_\_\_

**WO# : 40232700**

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 - 105 Type of Ice:  Wet  Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 35 /Corr: 3

Person examining contents:  
Date: 9/3/21 /Initials: SKW

Temp Blank Present:  yes  no

Biological Tissue is Frozen:  yes  no

Labeled By Initials: AKJ

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 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>467</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