



Wisconsin Public Service Corporation

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

[www.wisconsinpublicservice.com](http://www.wisconsinpublicservice.com)

July 30, 2018

Ms. Amy Hazuka  
Associated Bank  
433 Main Street, Mailstop 8227  
Green Bay, WI, 54301-5114

**RE: Recent Sampling Results**

Wisconsin Public Service Corporation – Former Green Bay Manufactured Gas Plant (MGP)  
700 North Adams Street, BRRTS# 0205000254

Dear Ms. Hazuka,

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples collected as part of routine monitoring (MW414, MW415A, MW415B, MW416) collected in May of 2018, as part of site characterization. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

Results of the sampling are summarized in the attached documents. This includes summary tables of the results compared to State standards. Copies of the relevant portions of the associated laboratory reports and a figure showing the locations of samples collected on your property are also included. The results will be presented in a future Remedial Investigation Report.

We appreciate your cooperation as sampling progresses.

If you need additional information, please contact Tauren Beggs from the WDNR at 920-662-5178 or myself at 414-221-2156.

Sincerely,

A handwritten signature in black ink that reads 'Frank Dombrowski'.

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

Ms. Hazuka  
Associated Bank  
July 30, 2018  
Page 2

Enc: Figure 1. Associated Bank

Table 1. Groundwater Analytical Results for Associated Bank (May 2018)  
Table 2. Sample Key for Associated Bank (May 2018)

Laboratory Reports  
40170015\_frc

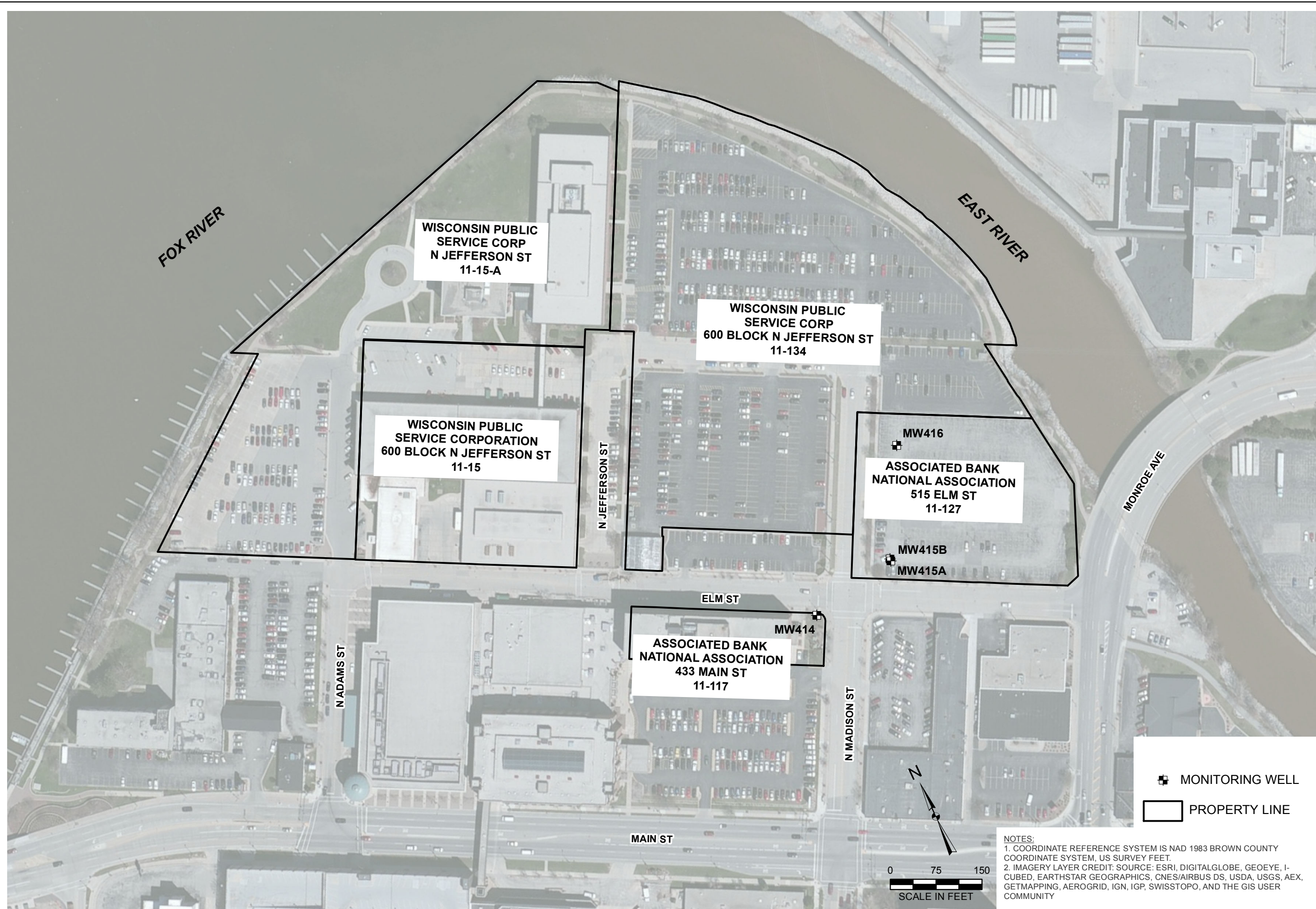
CC: USEPA RPM – Margaret Gielniewski (via email)  
WDNR PM – Tauren Beggs (via US Mail and email)  
WDNR Northeast Region (via email to DNRRNER@wisconsin.gov)  
Mr. Brian Hennings, OBG (via email)





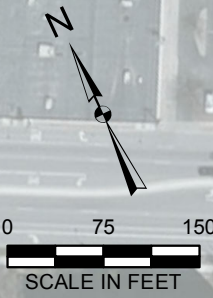
## Figures



Y:\GIS\Projects\1511584\MXD\WEC Adjacent Prop Data Maps\Figure 1\_Associated Bank.mxd Author: dtd/da Date/Time: 4/25/2016, 10:59:11 AM



 MONITORING WELL  
 PROPERTY LINE



**NOTES:**  
 1. COORDINATE REFERENCE SYSTEM IS NAD 1983 BROWN COUNTY COORDINATE SYSTEM, US SURVEY FEET.  
 2. IMAGERY LAYER CREDIT: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEX, GETMAPPING, AEROGRIID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY

DRAWN BY/DATE:  
 DMD 03/10/16  
 REVIEWED BY/DATE:  
 ANS  
 APPROVED BY/DATE:  
 KRM

**ASSOCIATED BANK**  
 RECENT SAMPLING RESULTS  
 FORMER GREEN BAY MANUFACTURED GAS PLANT  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 GREEN BAY, WISCONSIN  
 BRRTS# 0205000254

PROJECT NO: 67983

FIGURE NO: 1







## Tables

**Table 1. Groundwater Analytical Results for Associated Bank**

May 2018 Sample Results Notification  
 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	Station Name	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
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	
WI Groundwater PAL:			NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50
WI Groundwater ES:			NS	NS	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	NS	250
053018017	MW-414	5/30/2018	<0.0060 U	<0.0050 U	<0.0062 U	<0.0051 U	<0.011 U	<0.0077 U	<0.011 U	0.0072 J	<0.0069 U	<0.0077 U	<0.013 U	<0.010 U	0.011 J	<0.0081 U	<0.018 U	<0.019 U	<0.014 U	0.013 J
053018010	MW-415A	5/30/2018	<0.0059 U	<0.0049 U	<0.0061 U	<0.0050 U	<0.010 U	0.022 J	<u>0.034 J</u>	<u>0.11</u>	0.064	0.057	<u>0.10</u>	<0.010 U	0.18	<0.0080 U	0.053 J	<0.018 U	0.067 J	0.082
053018011	MW-415A-Dup	5/30/2018	<0.0059 U	<0.0049 U	<0.0061 U	<0.0050 U	0.011 J	0.018 J	<u>0.037 J</u>	<u>0.11</u>	0.063	0.058	<u>0.11</u>	0.011 J	0.17	<0.0080 U	0.056 J	<0.018 U	0.065 J	0.12
053018012	MW-415B	5/30/2018	<0.0060 U	<0.0049 U	<0.0061 U	<0.0050 U	<0.011 U	<0.0076 U	<0.011 U	0.012 J	0.0077 J	<0.0076 U	0.014 J	<0.010 U	0.014 J	<0.0081 U	<0.018 U	<0.019 U	0.020 J	0.022 J
053018009	MW-416	5/30/2018	<0.0059 U	<0.0049 U	<0.0061 U	<0.0050 U	<0.010 U	<0.0076 U	<0.011 U	<u>0.021 J</u>	0.0087 J	<0.0076 U	<u>0.020 J</u>	<0.010 U	0.034 J	<0.0080 U	<0.018 U	<0.018 U	0.019 J	0.026 J

Notes

Underline = concentration that attains or exceeds WDNR PAL

**BOLD** = concentration that attains or exceeds WDNR ES

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

-- = Analysis not performed

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

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

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

NS = A groundwater quality standard has not been established.

NO2 + NO3 = nitrite plus nitrate

1. Total trimethylbenzenes were calculated by NRT, an OBG Company, as follows:

- Where no detections were observed, the sum of the reporting limits is presented.
- Where detections were observed, the detected results were added together for the total summation.
- The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



**Table 1. Groundwater Analytical Results for Associated Bank**

May 2018 Sample Results Notification  
 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	Station Name	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	VOC	VOC	VOC	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	Inorganic	
			Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trimethylbenzenes, Total <sup>1</sup>	Arsenic, Dissolved	Barium, Dissolved	Cadmium, Dissolved	Chromium, Dissolved	Iron, Dissolved	Lead, Dissolved	Manganese, Dissolved	Mercury, Dissolved	Selenium, Dissolved	Silver, Dissolved	Chloride, Total	Nitrogen, NO <sub>2</sub> + NO <sub>3</sub> , Total	Sulfate, 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	µg/L	µg/L	µg/L	µg/L	
WI Groundwater PAL:			<u>0.5</u>	<u>140</u>	<u>160</u>	NS	NS	<u>400</u>	NS	NS	<u>96</u>	1	<u>400</u>	<u>0.5</u>	<u>10</u>	<u>150</u>	<u>1.5</u>	<u>25</u>	<u>0.2</u>	<u>10</u>	<u>10</u>	<u>125,000</u>	<u>2,000</u>	<u>125,000</u>
WI Groundwater ES:			5	700	800	NS	NS	2,000	NS	NS	480	10	2,000	5	100	300	15	50	2	50	50	250,000	10,000	250,000
053018017	MW-414	5/30/2018	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<2.8 U	<u>545</u>	<u>0.92 J</u>	<10.2 U*	<1,110 U*	<2.0 U*	<b>400</b>	<0.25 U*	<3.2 U	<1.0 U	<b>4,860,000</b>	1,500	90,500
053018010	MW-415A	5/30/2018	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<0.56 U	104	<0.16 U	<2.0 U	<221 U*	<0.39 U	<5.4 U	<0.13 U	<0.63 U	<0.20 U	--	<95 U	<b>282,000</b>
053018011	MW-415A	5/30/2018	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<0.56 U	113	<0.16 U	<2.0 U	<221 U*	<0.39 U	<5.4 U	<0.13 U	<0.63 U	<0.20 U	--	<95 U	<b>280,000</b>
053018012	MW-415B	5/30/2018	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<0.56 U	20.0	0.27 J	<2.0 U	<221 U*	<0.39 U	<5.4 U	<0.13 U	<0.63 U	<0.20 U	--	250 J	<b>1,580,000</b>
053018009	MW-416	5/30/2018	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<u>3.2 J</u>	294	<u>1.1 J</u>	<10.2 U*	<b>3,710</b>	<2.0 U*	<b>3,270</b>	<0.50 U*	<3.2 U	<1.0 U	--	<95 U	<500,000 U*

[O:ECK 7/26/18, C:SGW 7/27/18, QA: IQW 7/30/18]

Notes

Underline = concentration that attains or exceeds WDNR PAL

**BOLD = concentration that attains or exceeds WDNR ES**

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µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

NS = A groundwater quality standard has not been established.

NO<sub>2</sub> + NO<sub>3</sub> = nitrite plus nitrate

1. Total trimethylbenzenes were calculated by NRT, an OBG Company, as follows:

- a. Where no detections were observed, the sum of the reporting limits is presented.
- b. Where detections were observed, the detected results were added together for the total summation.
- c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.





**Table 2. Sample Key for Associated Bank**

May 2018 Sample Results Notification  
Wisconsin Public Service Corporation  
Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin  
BRRTS#: 02-05-000254 USEPA#: WIN000509948

<b>PACE Lab Report</b>	<b>9-digit code</b>	<b>Location ID Name</b>	<b>Duplicate of</b>	<b>Matrix</b>	<b>Date</b>
40170015	053018009	MW-416	--	Groundwater	05/30/2018
40170015	053018010	MW-415A	--	Groundwater	05/30/2018
40170015	053018011	MW-415A-Dup	MW-415A	Groundwater	05/30/2018
40170015	053018012	MW-415B	--	Groundwater	05/30/2018
40170015	053018017	MW-414	--	Groundwater	05/30/2018

[O:ECK 7/26/18, C:SGW 7/27/18, QA: JQW 7/30/18]

Notes:

*Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, and Date*

Dup = Quality Control Field Duplicate Sample

-- = no applicable information





## Laboratory Data Reports

June 15, 2018

Eric Hritsuk  
OBG

RE: Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

Dear Eric Hritsuk:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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, OBG  
NRT Data, OBG  
Robert Paulson, We Energies  
Steve Wiskes, OBG



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

---

### Green Bay Certification IDs

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: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40170015001	053018017	Water	05/30/18 16:09	05/31/18 10:32
40170015002	053018009	Water	05/30/18 08:00	05/31/18 10:32
40170015003	053018010	Water	05/30/18 08:36	05/31/18 10:32
40170015004	053018011	Water	05/30/18 08:41	05/31/18 10:32
40170015005	053018012	Water	05/30/18 09:26	05/31/18 10:32

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40170015001	053018017	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	HNW	11
		EPA 300.0	HMB	2
		EPA 353.2	DAW	1
40170015002	053018009	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40170015003	053018010	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40170015004	053018011	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40170015005	053018012	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

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**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

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

**Date:** June 15, 2018

### General Information:

5 samples were analyzed for EPA 6020. 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 3010 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

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

### Continuing Calibration:

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

### Internal Standards:

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

### Method Blank:

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

### Laboratory Control Spike:

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

### Matrix Spikes:

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

### Additional Comments:

Analyte Comments:

QC Batch: 291056

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

- 053018009 (Lab ID: 40170015002)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- 053018010 (Lab ID: 40170015003)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

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

**Date:** June 15, 2018

Analyte Comments:

QC Batch: 291056

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

- 053018010 (Lab ID: 40170015003)
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- 053018011 (Lab ID: 40170015004)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- 053018012 (Lab ID: 40170015005)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- 053018017 (Lab ID: 40170015001)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

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**Method:** EPA 7470  
**Description:** 7470 Mercury, Dissolved  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** June 15, 2018

### General Information:

5 samples were analyzed for EPA 7470. 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:

Analyte Comments:

QC Batch: 291213

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

- 053018017 (Lab ID: 40170015001)
  - Mercury, Dissolved

QC Batch: 291591

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

- 053018009 (Lab ID: 40170015002)
  - Mercury, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

---

**Method:** EPA 8270 by HVI

**Description:** 8270 MSSV PAH by HVI

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

**Date:** June 15, 2018

**General Information:**

5 samples were analyzed for EPA 8270 by HVI. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

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

**Sample Preparation:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: 290833

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

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

---

**Method:** EPA 8260

**Description:** 8260 MSV UST

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

**Date:** June 15, 2018

**General Information:**

5 samples were analyzed for EPA 8260. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

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

**Date:** June 15, 2018

**General Information:**

5 samples were analyzed for EPA 300.0. 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.

**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: 291158

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40170014001,40170015001

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

- MS (Lab ID: 1702434)
  - Sulfate
- MSD (Lab ID: 1702435)
  - Chloride
  - Sulfate
- MSD (Lab ID: 1702437)
  - Chloride

**Additional Comments:**

Analyte Comments:

QC Batch: 291357

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

- 053018009 (Lab ID: 40170015002)
  - Sulfate

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

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**Method:** EPA 353.2  
**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** June 15, 2018

**General Information:**

5 samples were analyzed for EPA 353.2. 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.

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

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

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

**Sample: 053018017**      **Lab ID: 40170015001**      Collected: 05/30/18 16:09      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Arsenic, Dissolved	<2.8	ug/L	10.0	2.8	10	06/06/18 07:19	06/15/18 06:11	7440-38-2	D3
Barium, Dissolved	545	ug/L	11.4	3.4	10	06/06/18 07:19	06/15/18 06:11	7440-39-3	
Cadmium, Dissolved	0.92J	ug/L	10.0	0.81	10	06/06/18 07:19	06/15/18 06:11	7440-43-9	D3
Chromium, Dissolved	<10.2	ug/L	34.0	10.2	10	06/06/18 07:19	06/15/18 06:11	7440-47-3	D3
Iron, Dissolved	<1110	ug/L	3680	1110	10	06/06/18 07:19	06/15/18 06:11	7439-89-6	D3
Lead, Dissolved	<2.0	ug/L	10.0	2.0	10	06/06/18 07:19	06/15/18 06:11	7439-92-1	D3
Manganese, Dissolved	400	ug/L	90.0	27.0	10	06/06/18 07:19	06/15/18 06:11	7439-96-5	
Selenium, Dissolved	<3.2	ug/L	10.6	3.2	10	06/06/18 07:19	06/15/18 06:11	7782-49-2	D3
Silver, Dissolved	<1.0	ug/L	5.0	1.0	10	06/06/18 07:19	06/15/18 06:11	7440-22-4	D3
<b>7470 Mercury, Dissolved</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Mercury, Dissolved	<0.25	ug/L	0.84	0.25	1	06/07/18 12:10	06/08/18 08:08	7439-97-6	D3
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<0.0062	ug/L	0.031	0.0062	1	06/01/18 12:48	06/04/18 11:58	83-32-9	
Acenaphthylene	<0.0051	ug/L	0.025	0.0051	1	06/01/18 12:48	06/04/18 11:58	208-96-8	
Anthracene	<0.011	ug/L	0.053	0.011	1	06/01/18 12:48	06/04/18 11:58	120-12-7	
Benzo(a)anthracene	<0.0077	ug/L	0.039	0.0077	1	06/01/18 12:48	06/04/18 11:58	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.054	0.011	1	06/01/18 12:48	06/04/18 11:58	50-32-8	
Benzo(b)fluoranthene	0.0072J	ug/L	0.029	0.0059	1	06/01/18 12:48	06/04/18 11:58	205-99-2	
Benzo(g,h,i)perylene	<0.0069	ug/L	0.035	0.0069	1	06/01/18 12:48	06/04/18 11:58	191-24-2	
Benzo(k)fluoranthene	<0.0077	ug/L	0.039	0.0077	1	06/01/18 12:48	06/04/18 11:58	207-08-9	
Chrysene	<0.013	ug/L	0.067	0.013	1	06/01/18 12:48	06/04/18 11:58	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.051	0.010	1	06/01/18 12:48	06/04/18 11:58	53-70-3	
Fluoranthene	0.011J	ug/L	0.054	0.011	1	06/01/18 12:48	06/04/18 11:58	206-44-0	
Fluorene	<0.0081	ug/L	0.041	0.0081	1	06/01/18 12:48	06/04/18 11:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.090	0.018	1	06/01/18 12:48	06/04/18 11:58	193-39-5	
1-Methylnaphthalene	<0.0060	ug/L	0.030	0.0060	1	06/01/18 12:48	06/04/18 11:58	90-12-0	
2-Methylnaphthalene	<0.0050	ug/L	0.025	0.0050	1	06/01/18 12:48	06/04/18 11:58	91-57-6	
Naphthalene	<0.019	ug/L	0.094	0.019	1	06/01/18 12:48	06/04/18 11:58	91-20-3	
Phenanthrene	<0.014	ug/L	0.070	0.014	1	06/01/18 12:48	06/04/18 11:58	85-01-8	
Pyrene	0.013J	ug/L	0.039	0.0078	1	06/01/18 12:48	06/04/18 11:58	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	61	%	29-80		1	06/01/18 12:48	06/04/18 11:58	321-60-8	
Terphenyl-d14 (S)	73	%	10-123		1	06/01/18 12:48	06/04/18 11:58	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		06/01/18 15:19	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 15:19	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/01/18 15:19	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 15:19	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 15:19	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		06/01/18 15:19	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/01/18 15:19	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/01/18 15:19	95-47-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Sample Project No.: 40170015

Sample: 053018017      Lab ID: 40170015001      Collected: 05/30/18 16:09      Received: 05/31/18 10:32      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	103	%	67-130		1		06/01/18 15:19	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		06/01/18 15:19	2037-26-5	
4-Bromofluorobenzene (S)	103	%	61-130		1		06/01/18 15:19	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Chloride	<b>4860</b>	mg/L	1000	250	500		06/12/18 14:58	16887-00-6	M0
Sulfate	<b>90.5</b>	mg/L	30.0	10.0	10		06/11/18 18:58	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>1.5</b>	mg/L	0.25	0.095	1		06/05/18 09:59		

Sample: 053018009      Lab ID: 40170015002      Collected: 05/30/18 08:00      Received: 05/31/18 10:32      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Arsenic, Dissolved	<b>3.2J</b>	ug/L	10.0	2.8	10	06/06/18 07:19	06/15/18 06:38	7440-38-2	D3
Barium, Dissolved	<b>294</b>	ug/L	11.4	3.4	10	06/06/18 07:19	06/15/18 06:38	7440-39-3	
Cadmium, Dissolved	<b>1.1J</b>	ug/L	10.0	0.81	10	06/06/18 07:19	06/15/18 06:38	7440-43-9	D3
Chromium, Dissolved	<b>&lt;10.2</b>	ug/L	34.0	10.2	10	06/06/18 07:19	06/15/18 06:38	7440-47-3	D3
Iron, Dissolved	<b>3710</b>	ug/L	3680	1110	10	06/06/18 07:19	06/15/18 06:38	7439-89-6	
Lead, Dissolved	<b>&lt;2.0</b>	ug/L	10.0	2.0	10	06/06/18 07:19	06/15/18 06:38	7439-92-1	D3
Manganese, Dissolved	<b>3270</b>	ug/L	90.0	27.0	10	06/06/18 07:19	06/15/18 06:38	7439-96-5	
Selenium, Dissolved	<b>&lt;3.2</b>	ug/L	10.6	3.2	10	06/06/18 07:19	06/15/18 06:38	7782-49-2	D3
Silver, Dissolved	<b>&lt;1.0</b>	ug/L	5.0	1.0	10	06/06/18 07:19	06/15/18 06:38	7440-22-4	D3
<b>7470 Mercury, Dissolved</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury, Dissolved	<b>&lt;0.50</b>	ug/L	1.7	0.50	1	06/12/18 09:55	06/13/18 09:57	7439-97-6	D3
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0061</b>	ug/L	0.030	0.0061	1	06/04/18 10:05	06/07/18 16:54	83-32-9	
Acenaphthylene	<b>&lt;0.0050</b>	ug/L	0.025	0.0050	1	06/04/18 10:05	06/07/18 16:54	208-96-8	
Anthracene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	06/04/18 10:05	06/07/18 16:54	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 16:54	56-55-3	
Benzo(a)pyrene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	06/04/18 10:05	06/07/18 16:54	50-32-8	
Benzo(b)fluoranthene	<b>0.021J</b>	ug/L	0.029	0.0057	1	06/04/18 10:05	06/07/18 16:54	205-99-2	
Benzo(g,h,i)perylene	<b>0.0087J</b>	ug/L	0.034	0.0068	1	06/04/18 10:05	06/07/18 16:54	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 16:54	207-08-9	
Chrysene	<b>0.020J</b>	ug/L	0.065	0.013	1	06/04/18 10:05	06/07/18 16:54	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.010</b>	ug/L	0.050	0.010	1	06/04/18 10:05	06/07/18 16:54	53-70-3	
Fluoranthene	<b>0.034J</b>	ug/L	0.053	0.011	1	06/04/18 10:05	06/07/18 16:54	206-44-0	
Fluorene	<b>&lt;0.0080</b>	ug/L	0.040	0.0080	1	06/04/18 10:05	06/07/18 16:54	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.018</b>	ug/L	0.088	0.018	1	06/04/18 10:05	06/07/18 16:54	193-39-5	

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

Sample: 053018009 Lab ID: 40170015002 Collected: 05/30/18 08:00 Received: 05/31/18 10:32 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
1-Methylnaphthalene	<0.0059	ug/L	0.030	0.0059	1	06/04/18 10:05	06/07/18 16:54	90-12-0	
2-Methylnaphthalene	<0.0049	ug/L	0.024	0.0049	1	06/04/18 10:05	06/07/18 16:54	91-57-6	
Naphthalene	<0.018	ug/L	0.092	0.018	1	06/04/18 10:05	06/07/18 16:54	91-20-3	
Phenanthrene	0.019J	ug/L	0.069	0.014	1	06/04/18 10:05	06/07/18 16:54	85-01-8	
Pyrene	0.026J	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 16:54	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	29-80		1	06/04/18 10:05	06/07/18 16:54	321-60-8	
Terphenyl-d14 (S)	63	%	10-123		1	06/04/18 10:05	06/07/18 16:54	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		06/05/18 10:02	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 10:02	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/05/18 10:02	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 10:02	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 10:02	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		06/05/18 10:02	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/05/18 10:02	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/05/18 10:02	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	95	%	70-130		1		06/05/18 10:02	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/05/18 10:02	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		06/05/18 10:02	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<500	mg/L	1500	500	500		06/14/18 10:44	14808-79-8	D3
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		06/05/18 10:13		

Sample: 053018010 Lab ID: 40170015003 Collected: 05/30/18 08:36 Received: 05/31/18 10:32 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	<0.56	ug/L	2.0	0.56	2	06/06/18 07:19	06/13/18 06:55	7440-38-2	D3
Barium, Dissolved	104	ug/L	2.3	0.68	2	06/06/18 07:19	06/13/18 06:55	7440-39-3	
Cadmium, Dissolved	<0.16	ug/L	2.0	0.16	2	06/06/18 07:19	06/13/18 06:55	7440-43-9	D3
Chromium, Dissolved	<2.0	ug/L	6.8	2.0	2	06/06/18 07:19	06/13/18 06:55	7440-47-3	D3
Iron, Dissolved	<221	ug/L	737	221	2	06/06/18 07:19	06/13/18 06:55	7439-89-6	D3
Lead, Dissolved	<0.39	ug/L	2.0	0.39	2	06/06/18 07:19	06/13/18 06:55	7439-92-1	D3
Manganese, Dissolved	<5.4	ug/L	18.0	5.4	2	06/06/18 07:19	06/13/18 06:55	7439-96-5	D3
Selenium, Dissolved	<0.63	ug/L	2.1	0.63	2	06/06/18 07:19	06/13/18 06:55	7782-49-2	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	06/06/18 07:19	06/13/18 06:55	7440-22-4	D3

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## ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

**Sample: 053018010**      **Lab ID: 40170015003**      Collected: 05/30/18 08:36      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>7470 Mercury, Dissolved</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Mercury, Dissolved	<0.13	ug/L	0.42	0.13	1	06/07/18 09:45	06/08/18 08:15	7439-97-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<0.0061	ug/L	0.030	0.0061	1	06/04/18 10:05	06/07/18 15:05	83-32-9	
Acenaphthylene	<0.0050	ug/L	0.025	0.0050	1	06/04/18 10:05	06/07/18 15:05	208-96-8	
Anthracene	<0.010	ug/L	0.052	0.010	1	06/04/18 10:05	06/07/18 15:05	120-12-7	
Benzo(a)anthracene	0.022J	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 15:05	56-55-3	
Benzo(a)pyrene	0.034J	ug/L	0.053	0.011	1	06/04/18 10:05	06/07/18 15:05	50-32-8	
Benzo(b)fluoranthene	0.11	ug/L	0.029	0.0057	1	06/04/18 10:05	06/07/18 15:05	205-99-2	
Benzo(g,h,i)perylene	0.064	ug/L	0.034	0.0068	1	06/04/18 10:05	06/07/18 15:05	191-24-2	
Benzo(k)fluoranthene	0.057	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 15:05	207-08-9	
Chrysene	0.10	ug/L	0.065	0.013	1	06/04/18 10:05	06/07/18 15:05	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.050	0.010	1	06/04/18 10:05	06/07/18 15:05	53-70-3	
Fluoranthene	0.18	ug/L	0.053	0.011	1	06/04/18 10:05	06/07/18 15:05	206-44-0	
Fluorene	<0.0080	ug/L	0.040	0.0080	1	06/04/18 10:05	06/07/18 15:05	86-73-7	
Indeno(1,2,3-cd)pyrene	0.053J	ug/L	0.088	0.018	1	06/04/18 10:05	06/07/18 15:05	193-39-5	
1-Methylnaphthalene	<0.0059	ug/L	0.030	0.0059	1	06/04/18 10:05	06/07/18 15:05	90-12-0	
2-Methylnaphthalene	<0.0049	ug/L	0.024	0.0049	1	06/04/18 10:05	06/07/18 15:05	91-57-6	
Naphthalene	<0.018	ug/L	0.092	0.018	1	06/04/18 10:05	06/07/18 15:05	91-20-3	
Phenanthrene	0.067J	ug/L	0.069	0.014	1	06/04/18 10:05	06/07/18 15:05	85-01-8	
Pyrene	0.082	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 15:05	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	54	%	29-80		1	06/04/18 10:05	06/07/18 15:05	321-60-8	
Terphenyl-d14 (S)	68	%	10-123		1	06/04/18 10:05	06/07/18 15:05	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		06/06/18 03:04	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/06/18 03:04	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/06/18 03:04	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/06/18 03:04	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/06/18 03:04	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		06/06/18 03:04	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/06/18 03:04	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/06/18 03:04	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	95	%	70-130		1		06/06/18 03:04	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/06/18 03:04	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		06/06/18 03:04	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	282	mg/L	15.0	5.0	5		06/13/18 15:04	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		06/05/18 10:14		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

**Sample: 053018011**      **Lab ID: 40170015004**      Collected: 05/30/18 08:41      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Arsenic, Dissolved	<0.56	ug/L	2.0	0.56	2	06/06/18 07:19	06/13/18 07:02	7440-38-2	D3
Barium, Dissolved	113	ug/L	2.3	0.68	2	06/06/18 07:19	06/13/18 07:02	7440-39-3	
Cadmium, Dissolved	<0.16	ug/L	2.0	0.16	2	06/06/18 07:19	06/13/18 07:02	7440-43-9	D3
Chromium, Dissolved	<2.0	ug/L	6.8	2.0	2	06/06/18 07:19	06/13/18 07:02	7440-47-3	D3
Iron, Dissolved	<221	ug/L	737	221	2	06/06/18 07:19	06/13/18 07:02	7439-89-6	D3
Lead, Dissolved	<0.39	ug/L	2.0	0.39	2	06/06/18 07:19	06/13/18 07:02	7439-92-1	D3
Manganese, Dissolved	<5.4	ug/L	18.0	5.4	2	06/06/18 07:19	06/13/18 07:02	7439-96-5	D3
Selenium, Dissolved	<0.63	ug/L	2.1	0.63	2	06/06/18 07:19	06/13/18 07:02	7782-49-2	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	06/06/18 07:19	06/13/18 07:02	7440-22-4	D3
<b>7470 Mercury, Dissolved</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Mercury, Dissolved	<0.13	ug/L	0.42	0.13	1	06/07/18 09:45	06/08/18 08:18	7439-97-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<0.0061	ug/L	0.030	0.0061	1	06/04/18 10:05	06/07/18 12:58	83-32-9	
Acenaphthylene	<0.0050	ug/L	0.025	0.0050	1	06/04/18 10:05	06/07/18 12:58	208-96-8	
Anthracene	0.011J	ug/L	0.052	0.010	1	06/04/18 10:05	06/07/18 12:58	120-12-7	
Benzo(a)anthracene	0.018J	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 12:58	56-55-3	
Benzo(a)pyrene	0.037J	ug/L	0.053	0.011	1	06/04/18 10:05	06/07/18 12:58	50-32-8	
Benzo(b)fluoranthene	0.11	ug/L	0.029	0.0057	1	06/04/18 10:05	06/07/18 12:58	205-99-2	
Benzo(g,h,i)perylene	0.063	ug/L	0.034	0.0068	1	06/04/18 10:05	06/07/18 12:58	191-24-2	
Benzo(k)fluoranthene	0.058	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 12:58	207-08-9	
Chrysene	0.11	ug/L	0.065	0.013	1	06/04/18 10:05	06/07/18 12:58	218-01-9	
Dibenz(a,h)anthracene	0.011J	ug/L	0.050	0.010	1	06/04/18 10:05	06/07/18 12:58	53-70-3	
Fluoranthene	0.17	ug/L	0.053	0.011	1	06/04/18 10:05	06/07/18 12:58	206-44-0	
Fluorene	<0.0080	ug/L	0.040	0.0080	1	06/04/18 10:05	06/07/18 12:58	86-73-7	
Indeno(1,2,3-cd)pyrene	0.056J	ug/L	0.088	0.018	1	06/04/18 10:05	06/07/18 12:58	193-39-5	
1-Methylnaphthalene	<0.0059	ug/L	0.030	0.0059	1	06/04/18 10:05	06/07/18 12:58	90-12-0	
2-Methylnaphthalene	<0.0049	ug/L	0.024	0.0049	1	06/04/18 10:05	06/07/18 12:58	91-57-6	
Naphthalene	<0.018	ug/L	0.092	0.018	1	06/04/18 10:05	06/07/18 12:58	91-20-3	
Phenanthrene	0.065J	ug/L	0.069	0.014	1	06/04/18 10:05	06/07/18 12:58	85-01-8	
Pyrene	0.12	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 12:58	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56	%	29-80		1	06/04/18 10:05	06/07/18 12:58	321-60-8	
Terphenyl-d14 (S)	70	%	10-123		1	06/04/18 10:05	06/07/18 12:58	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		06/05/18 11:51	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 11:51	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/05/18 11:51	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 11:51	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 11:51	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		06/05/18 11:51	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/05/18 11:51	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/05/18 11:51	95-47-6	

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Lab Project No.: 40170015

Sample: 053018011 Lab ID: 40170015004 Collected: 05/30/18 08:41 Received: 05/31/18 10:32 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	94	%	70-130		1		06/05/18 11:51	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/05/18 11:51	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		06/05/18 11:51	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	280	mg/L	15.0	5.0	5		06/13/18 15:15	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		06/05/18 10:15		

Sample: 053018012 Lab ID: 40170015005 Collected: 05/30/18 09:26 Received: 05/31/18 10:32 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Arsenic, Dissolved	<0.56	ug/L	2.0	0.56	2	06/06/18 07:19	06/13/18 07:22	7440-38-2	D3
Barium, Dissolved	20.0	ug/L	2.3	0.68	2	06/06/18 07:19	06/13/18 07:22	7440-39-3	
Cadmium, Dissolved	0.27J	ug/L	2.0	0.16	2	06/06/18 07:19	06/13/18 07:22	7440-43-9	D3
Chromium, Dissolved	<2.0	ug/L	6.8	2.0	2	06/06/18 07:19	06/13/18 07:22	7440-47-3	D3
Iron, Dissolved	<221	ug/L	737	221	2	06/06/18 07:19	06/13/18 07:22	7439-89-6	D3
Lead, Dissolved	<0.39	ug/L	2.0	0.39	2	06/06/18 07:19	06/13/18 07:22	7439-92-1	D3
Manganese, Dissolved	<5.4	ug/L	18.0	5.4	2	06/06/18 07:19	06/13/18 07:22	7439-96-5	D3
Selenium, Dissolved	<0.63	ug/L	2.1	0.63	2	06/06/18 07:19	06/13/18 07:22	7782-49-2	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	06/06/18 07:19	06/13/18 07:22	7440-22-4	D3
<b>7470 Mercury, Dissolved</b> Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.13	ug/L	0.42	0.13	1	06/07/18 09:45	06/08/18 08:20	7439-97-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0061	ug/L	0.031	0.0061	1	06/04/18 10:05	06/07/18 13:16	83-32-9	
Acenaphthylene	<0.0050	ug/L	0.025	0.0050	1	06/04/18 10:05	06/07/18 13:16	208-96-8	
Anthracene	<0.011	ug/L	0.053	0.011	1	06/04/18 10:05	06/07/18 13:16	120-12-7	
Benzo(a)anthracene	<0.0076	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 13:16	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.053	0.011	1	06/04/18 10:05	06/07/18 13:16	50-32-8	
Benzo(b)fluoranthene	0.012J	ug/L	0.029	0.0058	1	06/04/18 10:05	06/07/18 13:16	205-99-2	
Benzo(g,h,i)perylene	0.0077J	ug/L	0.034	0.0068	1	06/04/18 10:05	06/07/18 13:16	191-24-2	
Benzo(k)fluoranthene	<0.0076	ug/L	0.038	0.0076	1	06/04/18 10:05	06/07/18 13:16	207-08-9	
Chrysene	0.014J	ug/L	0.066	0.013	1	06/04/18 10:05	06/07/18 13:16	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.051	0.010	1	06/04/18 10:05	06/07/18 13:16	53-70-3	
Fluoranthene	0.014J	ug/L	0.054	0.011	1	06/04/18 10:05	06/07/18 13:16	206-44-0	
Fluorene	<0.0081	ug/L	0.040	0.0081	1	06/04/18 10:05	06/07/18 13:16	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.089	0.018	1	06/04/18 10:05	06/07/18 13:16	193-39-5	
1-Methylnaphthalene	<0.0060	ug/L	0.030	0.0060	1	06/04/18 10:05	06/07/18 13:16	90-12-0	

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

**Sample: 053018012**      **Lab ID: 40170015005**      Collected: 05/30/18 09:26      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
2-Methylnaphthalene	<0.0049	ug/L	0.025	0.0049	1	06/04/18 10:05	06/07/18 13:16	91-57-6	
Naphthalene	<0.019	ug/L	0.093	0.019	1	06/04/18 10:05	06/07/18 13:16	91-20-3	
Phenanthrene	0.020J	ug/L	0.070	0.014	1	06/04/18 10:05	06/07/18 13:16	85-01-8	
Pyrene	0.022J	ug/L	0.039	0.0077	1	06/04/18 10:05	06/07/18 13:16	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	55	%	29-80		1	06/04/18 10:05	06/07/18 13:16	321-60-8	
Terphenyl-d14 (S)	70	%	10-123		1	06/04/18 10:05	06/07/18 13:16	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:13	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:13	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:13	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:13	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:13	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		06/05/18 12:13	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/05/18 12:13	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:13	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	95	%	70-130		1		06/05/18 12:13	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/05/18 12:13	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		06/05/18 12:13	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	1580	mg/L	300	100	100		06/14/18 11:15	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.25J	mg/L	0.25	0.095	1		06/05/18 10:16		

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

QC Batch: 291213 Analysis Method: EPA 7470  
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved  
Associated Lab Samples: 40170015001, 40170015003, 40170015004, 40170015005

METHOD BLANK: 1702838 Matrix: Water  
Associated Lab Samples: 40170015001, 40170015003, 40170015004, 40170015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	06/08/18 08:04	

LABORATORY CONTROL SAMPLE: 1702839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1702840 1702841

Parameter	Units	1702840		1702841		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40170015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury, Dissolved	ug/L	<0.25	10	10	9.8	9.8	98	98	85-115	1	20

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.

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**QUALITY CONTROL DATA**

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

QC Batch: 291591 Analysis Method: EPA 7470  
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved  
Associated Lab Samples: 40170015002

METHOD BLANK: 1705073 Matrix: Water  
Associated Lab Samples: 40170015002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	06/13/18 09:02	

LABORATORY CONTROL SAMPLE: 1705074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1705075 1705076

Parameter	Units	1705075		1705076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40170016003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury, Dissolved	ug/L	<0.25	10	10	10.5	10.5	105	105	85-115	0	20	

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: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

QC Batch: 291056 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
Associated Lab Samples: 40170015001, 40170015002, 40170015003, 40170015004, 40170015005

METHOD BLANK: 1702029 Matrix: Water  
Associated Lab Samples: 40170015001, 40170015002, 40170015003, 40170015004, 40170015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	06/13/18 06:00	
Barium, Dissolved	ug/L	<0.34	1.1	06/13/18 06:00	
Cadmium, Dissolved	ug/L	<0.081	1.0	06/13/18 06:00	
Chromium, Dissolved	ug/L	<1.0	3.4	06/13/18 06:00	
Iron, Dissolved	ug/L	<111	368	06/13/18 06:00	
Lead, Dissolved	ug/L	<0.20	1.0	06/13/18 06:00	
Manganese, Dissolved	ug/L	<2.7	9.0	06/13/18 06:00	
Selenium, Dissolved	ug/L	<0.32	1.1	06/13/18 06:00	
Silver, Dissolved	ug/L	<0.10	0.50	06/13/18 06:00	

LABORATORY CONTROL SAMPLE: 1702030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	495	99	80-120	
Barium, Dissolved	ug/L	500	473	95	80-120	
Cadmium, Dissolved	ug/L	500	508	102	80-120	
Chromium, Dissolved	ug/L	500	456	91	80-120	
Iron, Dissolved	ug/L	5000	5220	104	80-120	
Lead, Dissolved	ug/L	500	453	91	80-120	
Manganese, Dissolved	ug/L	500	462	92	80-120	
Selenium, Dissolved	ug/L	500	511	102	80-120	
Silver, Dissolved	ug/L	250	225	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1702031 1702032

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40170015001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic, Dissolved	ug/L	<2.8	500	500	496	501	99	100	75-125	1	20	
Barium, Dissolved	ug/L	545	500	500	1000	1020	91	94	75-125	1	20	
Cadmium, Dissolved	ug/L	0.92J	500	500	476	485	95	97	75-125	2	20	
Chromium, Dissolved	ug/L	<10.2	500	500	471	476	94	95	75-125	1	20	
Iron, Dissolved	ug/L	<1110	5000	5000	4820	4840	92	93	75-125	0	20	
Lead, Dissolved	ug/L	<2.0	500	500	464	470	93	94	75-125	1	20	
Manganese, Dissolved	ug/L	400	500	500	850	870	90	94	75-125	2	20	
Selenium, Dissolved	ug/L	<3.2	500	500	516	530	103	106	75-125	3	20	
Silver, Dissolved	ug/L	<1.0	250	250	225	228	90	91	75-125	2	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

QC Batch: 290673 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 40170015001

METHOD BLANK: 1700223 Matrix: Water  
Associated Lab Samples: 40170015001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	06/01/18 12:31	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	06/01/18 12:31	
Benzene	ug/L	<0.50	1.0	06/01/18 12:31	
Ethylbenzene	ug/L	<0.50	1.0	06/01/18 12:31	
m&p-Xylene	ug/L	<1.0	2.0	06/01/18 12:31	
o-Xylene	ug/L	<0.50	1.0	06/01/18 12:31	
Toluene	ug/L	<0.50	1.0	06/01/18 12:31	
Xylene (Total)	ug/L	<1.5	3.0	06/01/18 12:31	
4-Bromofluorobenzene (S)	%	102	61-130	06/01/18 12:31	
Dibromofluoromethane (S)	%	101	67-130	06/01/18 12:31	
Toluene-d8 (S)	%	105	70-130	06/01/18 12:31	

LABORATORY CONTROL SAMPLE: 1700224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.7	103	73-145	
Ethylbenzene	ug/L	50	56.2	112	87-129	
m&p-Xylene	ug/L	100	106	106	70-130	
o-Xylene	ug/L	50	52.9	106	70-130	
Toluene	ug/L	50	55.0	110	82-130	
Xylene (Total)	ug/L	150	159	106	70-130	
4-Bromofluorobenzene (S)	%			110	61-130	
Dibromofluoromethane (S)	%			101	67-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700225 1700226

Parameter	Units	40170015001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Benzene	ug/L	<0.50	50	50	50.7	51.5	101	103	73-145	1	20	
Ethylbenzene	ug/L	<0.50	50	50	55.7	56.1	111	112	87-129	1	20	
m&p-Xylene	ug/L	<1.0	100	100	105	105	105	105	70-130	0	20	
o-Xylene	ug/L	<0.50	50	50	52.8	52.7	106	105	70-130	0	20	
Toluene	ug/L	<0.50	50	50	54.7	54.9	109	110	82-131	0	20	
Xylene (Total)	ug/L	<1.5	150	150	158	158	105	105	70-130	0	20	
4-Bromofluorobenzene (S)	%						110	110	61-130			
Dibromofluoromethane (S)	%						101	101	67-130			
Toluene-d8 (S)	%						105	104	70-130			

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

QC Batch: 290808 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 40170015002, 40170015003, 40170015004, 40170015005

METHOD BLANK: 1701072 Matrix: Water  
Associated Lab Samples: 40170015002, 40170015003, 40170015004, 40170015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	06/05/18 07:29	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	06/05/18 07:29	
Benzene	ug/L	<0.50	1.0	06/05/18 07:29	
Ethylbenzene	ug/L	<0.50	1.0	06/05/18 07:29	
m&p-Xylene	ug/L	<1.0	2.0	06/05/18 07:29	
o-Xylene	ug/L	<0.50	1.0	06/05/18 07:29	
Toluene	ug/L	<0.50	1.0	06/05/18 07:29	
Xylene (Total)	ug/L	<1.5	3.0	06/05/18 07:29	
4-Bromofluorobenzene (S)	%	89	70-130	06/05/18 07:29	
Dibromofluoromethane (S)	%	95	70-130	06/05/18 07:29	
Toluene-d8 (S)	%	98	70-130	06/05/18 07:29	

LABORATORY CONTROL SAMPLE: 1701073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	43.6	87	69-137	
Ethylbenzene	ug/L	50	51.6	103	86-127	
m&p-Xylene	ug/L	100	112	112	70-131	
o-Xylene	ug/L	50	52.7	105	70-130	
Toluene	ug/L	50	50.1	100	84-124	
Xylene (Total)	ug/L	150	164	110	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701470 1701471

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40170015002 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<0.50	50	50	44.4	44.5	89	89	66-143	0	20
Ethylbenzene	ug/L	<0.50	50	50	49.7	52.0	99	104	81-136	4	20
m&p-Xylene	ug/L	<1.0	100	100	108	112	108	112	70-135	4	20
o-Xylene	ug/L	<0.50	50	50	52.4	54.7	105	109	70-132	4	20
Toluene	ug/L	<0.50	50	50	50.5	53.2	101	106	81-130	5	20
Xylene (Total)	ug/L	<1.5	150	150	160	167	107	111	70-134	4	20
4-Bromofluorobenzene (S)	%						94	98	70-130		
Dibromofluoromethane (S)	%						97	97	70-130		
Toluene-d8 (S)	%						93	96	70-130		

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

QC Batch: 290697 Analysis Method: EPA 8270 by HVI  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
Associated Lab Samples: 40170015001

METHOD BLANK: 1700278 Matrix: Water  
Associated Lab Samples: 40170015001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/04/18 11:03	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/04/18 11:03	
Acenaphthene	ug/L	<0.0061	0.030	06/04/18 11:03	
Acenaphthylene	ug/L	<0.0050	0.025	06/04/18 11:03	
Anthracene	ug/L	<0.010	0.052	06/04/18 11:03	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/04/18 11:03	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/04/18 11:03	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/04/18 11:03	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/04/18 11:03	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/04/18 11:03	
Chrysene	ug/L	<0.013	0.065	06/04/18 11:03	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/04/18 11:03	
Fluoranthene	ug/L	<0.011	0.053	06/04/18 11:03	
Fluorene	ug/L	<0.0080	0.040	06/04/18 11:03	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/04/18 11:03	
Naphthalene	ug/L	<0.018	0.092	06/04/18 11:03	
Phenanthrene	ug/L	<0.014	0.069	06/04/18 11:03	
Pyrene	ug/L	<0.0076	0.038	06/04/18 11:03	
2-Fluorobiphenyl (S)	%	58	29-80	06/04/18 11:03	
Terphenyl-d14 (S)	%	80	10-123	06/04/18 11:03	

LABORATORY CONTROL SAMPLE: 1700279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	76	53-92	
2-Methylnaphthalene	ug/L	2	1.5	73	51-87	
Acenaphthene	ug/L	2	1.4	68	49-90	
Acenaphthylene	ug/L	2	1.3	67	50-84	
Anthracene	ug/L	2	1.6	82	49-109	
Benzo(a)anthracene	ug/L	2	1.4	70	42-97	
Benzo(a)pyrene	ug/L	2	1.6	82	61-106	
Benzo(b)fluoranthene	ug/L	2	1.6	79	51-95	
Benzo(g,h,i)perylene	ug/L	2	1.0	51	27-120	
Benzo(k)fluoranthene	ug/L	2	1.6	82	58-103	
Chrysene	ug/L	2	2.1	107	69-125	
Dibenz(a,h)anthracene	ug/L	2	0.95	48	21-120	
Fluoranthene	ug/L	2	1.8	90	68-110	
Fluorene	ug/L	2	1.5	76	54-95	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	76	50-94	
Naphthalene	ug/L	2	1.3	66	46-78	

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

LABORATORY CONTROL SAMPLE: 1700279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.6	78	51-95	
Pyrene	ug/L	2	1.8	91	66-106	
2-Fluorobiphenyl (S)	%			63	29-80	
Terphenyl-d14 (S)	%			77	10-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700280 1700281

Parameter	Units	40170015001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1-Methylnaphthalene	ug/L	<0.0060	2	2	1.5	1.5	74	74	38-92	1	24		
2-Methylnaphthalene	ug/L	<0.0050	2	2	1.4	1.4	68	69	40-87	0	28		
Acenaphthene	ug/L	<0.0062	2	2	1.3	1.3	64	66	23-90	3	23		
Acenaphthylene	ug/L	<0.0051	2	2	1.2	1.2	62	61	31-84	1	25		
Anthracene	ug/L	<0.011	2	2	1.5	1.5	75	74	16-111	2	27		
Benzo(a)anthracene	ug/L	<0.0077	2	2	1.1	1.0	56	50	10-98	10	31		
Benzo(a)pyrene	ug/L	<0.011	2	2	1.3	1.3	66	67	10-106	2	29		
Benzo(b)fluoranthene	ug/L	0.0072J	2	2	1.3	1.3	62	64	10-102	3	27		
Benzo(g,h,i)perylene	ug/L	<0.0069	2	2	0.66	0.69	33	34	10-120	4	33		
Benzo(k)fluoranthene	ug/L	<0.0077	2	2	1.3	1.5	65	72	10-107	10	28		
Chrysene	ug/L	<0.013	2	2	2.1	2.3	102	112	10-137	9	30		
Dibenz(a,h)anthracene	ug/L	<0.010	2	2	0.62	0.65	31	32	10-120	4	40		
Fluoranthene	ug/L	0.011J	2	2	1.6	1.6	80	81	16-127	1	28		
Fluorene	ug/L	<0.0081	2	2	1.4	1.4	69	68	23-95	2	25		
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	2	2	1.0	1.0	50	51	10-94	2	30		
Naphthalene	ug/L	<0.019	2	2	1.3	1.3	66	66	34-78	0	26		
Phenanthrene	ug/L	<0.014	2	2	1.4	1.4	71	69	37-95	4	24		
Pyrene	ug/L	0.013J	2	2	1.7	1.7	84	86	33-113	2	32		
2-Fluorobiphenyl (S)	%						60	61	29-80				
Terphenyl-d14 (S)	%						68	69	10-123				

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

QC Batch: 290833 Analysis Method: EPA 8270 by HVI  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
Associated Lab Samples: 40170015002, 40170015003, 40170015004, 40170015005

METHOD BLANK: 1701147 Matrix: Water  
Associated Lab Samples: 40170015002, 40170015003, 40170015004, 40170015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/04/18 15:09	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/04/18 15:09	
Acenaphthene	ug/L	<0.0061	0.030	06/04/18 15:09	
Acenaphthylene	ug/L	<0.0050	0.025	06/04/18 15:09	
Anthracene	ug/L	<0.010	0.052	06/04/18 15:09	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/04/18 15:09	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/04/18 15:09	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/04/18 15:09	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/04/18 15:09	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/04/18 15:09	
Chrysene	ug/L	<0.013	0.065	06/04/18 15:09	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/04/18 15:09	
Fluoranthene	ug/L	<0.011	0.053	06/04/18 15:09	
Fluorene	ug/L	<0.0080	0.040	06/04/18 15:09	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/04/18 15:09	
Naphthalene	ug/L	<0.018	0.092	06/04/18 15:09	
Phenanthrene	ug/L	<0.014	0.069	06/04/18 15:09	
Pyrene	ug/L	<0.0076	0.038	06/04/18 15:09	
2-Fluorobiphenyl (S)	%	53	29-80	06/04/18 15:09	
Terphenyl-d14 (S)	%	85	10-123	06/04/18 15:09	

LABORATORY CONTROL SAMPLE & LCSD: 1701148 1701149

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	1.3	69	66	53-92	4	20	
2-Methylnaphthalene	ug/L	2	1.3	1.2	64	61	51-87	4	20	
Acenaphthene	ug/L	2	1.2	1.2	60	60	49-90	0	20	
Acenaphthylene	ug/L	2	1.2	1.1	59	57	50-84	3	20	
Anthracene	ug/L	2	1.5	1.5	76	77	49-109	2	27	
Benzo(a)anthracene	ug/L	2	1.3	1.2	63	59	42-97	6	23	
Benzo(a)pyrene	ug/L	2	1.6	1.6	82	81	61-106	1	20	
Benzo(b)fluoranthene	ug/L	2	1.6	1.5	79	77	51-95	3	20	
Benzo(g,h,i)perylene	ug/L	2	1.1	1.0	55	50	27-120	10	33	
Benzo(k)fluoranthene	ug/L	2	1.7	1.7	86	86	58-103	0	22	
Chrysene	ug/L	2	2.4	2.4	118	119	69-125	1	20	
Dibenz(a,h)anthracene	ug/L	2	1.0	0.89	52	44	21-120	15	39	
Fluoranthene	ug/L	2	1.8	1.7	88	87	68-110	2	24	
Fluorene	ug/L	2	1.3	1.3	65	67	54-95	3	21	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	1.6	83	80	50-94	4	26	
Naphthalene	ug/L	2	1.2	1.2	62	58	46-78	7	21	

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

LABORATORY CONTROL SAMPLE & LCSD: 1701148		1701149								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Phenanthrene	ug/L	2	1.4	1.4	70	70	51-95	0	20	
Pyrene	ug/L	2	1.8	1.8	91	89	66-106	2	24	
2-Fluorobiphenyl (S)	%				55	55	29-80			
Terphenyl-d14 (S)	%				78	78	10-123			

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

QC Batch: 291158 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40170015001

METHOD BLANK: 1702432 Matrix: Water  
Associated Lab Samples: 40170015001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	06/08/18 22:49	
Sulfate	mg/L	<1.0	3.0	06/08/18 22:49	

LABORATORY CONTROL SAMPLE: 1702433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.7	108	90-110	
Sulfate	mg/L	20	21.7	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1702434 1702435

Parameter	Units	40170014001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Chloride	mg/L	3650	2000	5470	5380	91	87	90-110	2	15	M0	
Sulfate	mg/L	65.2	100	178	177	112	112	90-110	0	15	M0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1702436 1702437

Parameter	Units	40170015001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Chloride	mg/L	4860	10000	15800	16900	109	120	90-110	6	15	M0	
Sulfate	mg/L	90.5	200	310	306	110	108	90-110	1	15		

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

QC Batch: 291357 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40170015002, 40170015003, 40170015004, 40170015005

METHOD BLANK: 1703704 Matrix: Water  
Associated Lab Samples: 40170015002, 40170015003, 40170015004, 40170015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	06/13/18 13:40	

LABORATORY CONTROL SAMPLE: 1703705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1703706 1703707

Parameter	Units	40170015002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	<500	10000	10000	10500	10600	101	102	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1703708 1703709

Parameter	Units	40170173003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	131	400	400	545	543	103	103	90-110	0	15	

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: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170015

QC Batch: 290955 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40170015001, 40170015002, 40170015003, 40170015004, 40170015005

METHOD BLANK: 1701456 Matrix: Water  
Associated Lab Samples: 40170015001, 40170015002, 40170015003, 40170015004, 40170015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	06/05/18 09:50	

LABORATORY CONTROL SAMPLE: 1701457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701458 1701459

Parameter	Units	1701458		1701459		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40170015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	1.5	2.5	2.5	4.0	4.0	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701460 1701461

Parameter	Units	1701460		1701461		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40170015005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	0.25J	2.5	2.5	2.8	2.8	100	101	90-110	0	20	

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.

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## QUALIFIERS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

---

### 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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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: 290908

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

### 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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40170015001	053018017	EPA 3010	291056	EPA 6020	291159
40170015002	053018009	EPA 3010	291056	EPA 6020	291159
40170015003	053018010	EPA 3010	291056	EPA 6020	291159
40170015004	053018011	EPA 3010	291056	EPA 6020	291159
40170015005	053018012	EPA 3010	291056	EPA 6020	291159
40170015001	053018017	EPA 7470	291213	EPA 7470	291280
40170015002	053018009	EPA 7470	291591	EPA 7470	291655
40170015003	053018010	EPA 7470	291213	EPA 7470	291280
40170015004	053018011	EPA 7470	291213	EPA 7470	291280
40170015005	053018012	EPA 7470	291213	EPA 7470	291280
40170015001	053018017	EPA 3510	290697	EPA 8270 by HVI	290772
40170015002	053018009	EPA 3510	290833	EPA 8270 by HVI	290908
40170015003	053018010	EPA 3510	290833	EPA 8270 by HVI	290908
40170015004	053018011	EPA 3510	290833	EPA 8270 by HVI	290908
40170015005	053018012	EPA 3510	290833	EPA 8270 by HVI	290908
40170015001	053018017	EPA 8260	290673		
40170015002	053018009	EPA 8260	290808		
40170015003	053018010	EPA 8260	290808		
40170015004	053018011	EPA 8260	290808		
40170015005	053018012	EPA 8260	290808		
40170015001	053018017	EPA 300.0	291158		
40170015002	053018009	EPA 300.0	291357		
40170015003	053018010	EPA 300.0	291357		
40170015004	053018011	EPA 300.0	291357		
40170015005	053018012	EPA 300.0	291357		
40170015001	053018017	EPA 353.2	290955		
40170015002	053018009	EPA 353.2	290955		
40170015003	053018010	EPA 353.2	290955		
40170015004	053018011	EPA 353.2	290955		
40170015005	053018012	EPA 353.2	290955		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1  
 R.R. 6/11/18  
 4017004 4017005  
 Page 34 of 36

QC 0  
 5-31-18

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: O'Brien & Gere	Report To: GDSdata@OBG.com	Attention: Accounts Payable		REGULATORY AGENCY	
Address: 234 W. Florida St Milwaukee, WI	Copy To: Brian Hennings	Company Name: WEC Business Services, LLC		<input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Email To: GDSdata@OBG.com	Purchase Order No.:	Address: PO Box 19800, Green Bay, WI 54307		Site Location: WI	
Phone: 262719-5286	Fax:	Project Name: Green Bay Former MGP		STATE: WI	
Requested Date/TAT: standard	Project Number: 1584/22.2	Pace Quote Reference:			
		Pace Project Manager:			
		Pace Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED COMPOSITE START / COMPOSITE END/GRAB	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.			
											Preservatives														
											Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Methanol	Other	Analysis Test	BTEX (8260)			1,2,4-Trimethylbenzene*	1,3,5-Trimethylbenzene*	PAHs (8270) HVI
1	052918001	GW		G	05-29-18	1419				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	052918002					1526				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	052918003					1605				24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MS/MSD 1 (3)
4	052918004				5/29/18	1707				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	001
5	052918005					1712				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	002
6	052918006					1824				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	003
7	052918007	DI				1845				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	004
8	053018008	GW			5-30-18	0715				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	001
9	053018009					0800				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	002
10	053018010					0836				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	003
11	053018011					0841				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	004
12	053018012					0926				8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	005

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
EPA Level 2	Mr. Barstow / OBG	05-31-18	1032	Mr. Barstow / Pace	5/31/18	1032	Rad	Y X N Y
*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn								
**1,2,4-Trimethylbenzene (8260)								
**1,3,5-Trimethylbenzene (8260)								

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custom Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Alex Barstow	DATE Signed (MM/DD/YY): 05/30/18				
SIGNATURE of SAMPLER: Mr. Barstow					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



### Sample Condition Upon Receipt Form (SCUR)

**Client Name:** OBG **Project #** WO#: 40170015  
**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Walto  
 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 - NA    **Type of Ice:** Wet Blue Dry None  Samples on ice, cooling process has begun  
**Cooler Temperature**    Uncorr: \_\_\_\_\_ /Corr: 2.0

**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.

<b>Person examining contents:</b> Date: <u>5/31/18</u> Initials: <u>AL</u>
--

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: _____
<b>Short Hold Time Analysis (&lt;72hr):</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
<b>Rush Turn Around Time Requested:</b>	<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 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 checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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: \_\_\_\_\_

**Project Manager Review:** [Signature] **Date:** 5-31-18





Wisconsin Public Service Corporation

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

[www.wisconsinpublicservice.com](http://www.wisconsinpublicservice.com)

July 30, 2018

Mr. Steven M. Grenier, P.E.  
City of Green Bay  
100 North Jefferson Street  
Green Bay, WI, 54301

**RE: Recent Sampling Results**

Wisconsin Public Service Corporation – Former Green Bay Manufactured Gas Plant (MGP)  
700 North Adams Street, BRRTS# 0205000254

Dear Mr. Grenier,

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples collected as part of routine monitoring (MW-407, MW-417, MW-418) collected in May of 2018, as part of site characterization. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

Results of the sampling are summarized in the attached documents. This includes summary tables of the results compared to State standards. Copies of the relevant portions of the associated laboratory reports and a figure showing the locations of samples collected on your property are also included. The results will be presented in a future Remedial Investigation Report.

We appreciate your cooperation as sampling progresses.

If you need additional information, please contact Tauren Beggs from the WDNR at 920-662-5178 or myself at 414-221-2156.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frank Dombrowski', is written over a light grey signature line.

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



Mr. Steven M. Grenier, P.E.  
City of Green Bay  
July 30, 2018  
Page 2

Enc: Figure 1. City of Green Bay

Table 1. Groundwater Analytical Results for City of Green Bay (May 2018)

Table 2. Sample Key for the City of Green Bay (May 2018)

Laboratory Data Reports

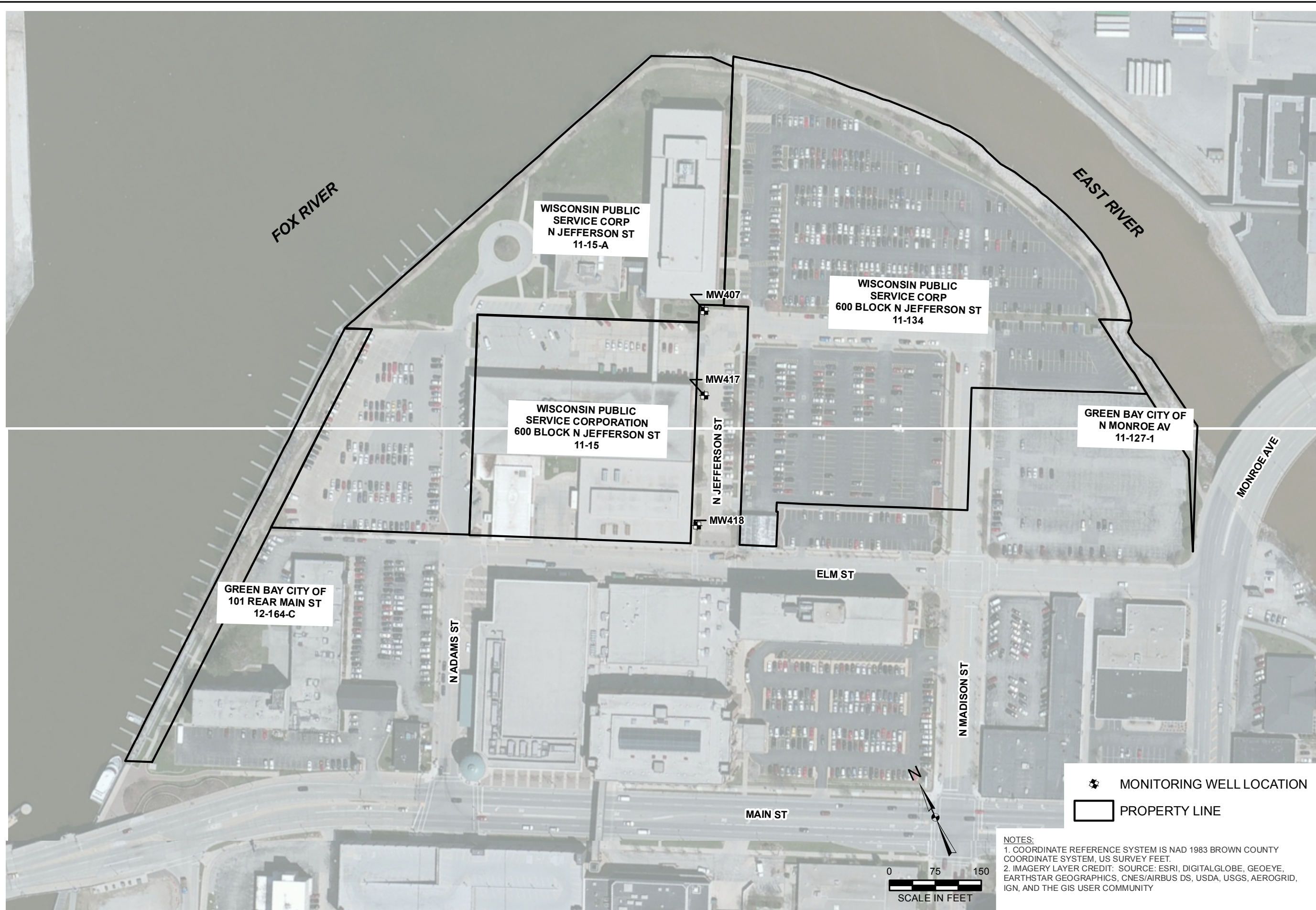
40170016\_frc

CC: USEPA RPM – Margaret Gielniewski (via email)  
WDNR PM – Tauren Beggs (via US Mail and email)  
WDNR Northeast Region (via email to DNRRNER@wisconsin.gov)  
Mr. Brian Hennings, OBG (via email)  
WPSC – Bob Laskowski (via email)



## Figures

Y:\GIS\Projects\151584\MXD\WEC Adjacent Prop Data Maps\Figure 1\_City of Green Bay\_180126.mxd Author: stclzsd Date/Time: 1/26/2018, 11:14:32 AM



DRAWN BY/DATE:  
SDS 1/26/18  
 REVIEWED BY/DATE:  
BGH 1/26/18  
 APPROVED BY/DATE:  
BGH 1/26/18

**CITY OF GREEN BAY**  
 FORMER GREEN BAY MANUFACTURED GAS PLANT  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 GREEN BAY, WISCONSIN  
 BRRTS# 0205000254

PROJECT NO: 67983

FIGURE NO: 1





## Tables



**Table 1. Groundwater Analytical Results for the City of Green Bay**

May 2018 Sample Results Notification  
 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	Station Name	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
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	
WI Groundwater PAL:			NS	NS	NS	NS	<u>600</u>	NS	<u>0.02</u>	<u>0.02</u>	NS	NS	<u>0.02</u>	NS	<u>80</u>	<u>80</u>	NS	<u>10</u>	NS	<u>50</u>
WI Groundwater ES:			NS	NS	NS	NS	<b>3,000</b>	NS	<b>0.2</b>	<b>0.2</b>	NS	NS	<b>0.2</b>	NS	<b>400</b>	<b>400</b>	NS	<b>100</b>	NS	<b>250</b>
052918003	MW-407	5/29/2018	<0.0059 U	<0.0049 U	<0.0061 U	<0.0050 U	<0.010 U	<0.0076 U	<0.011 U	<0.0057 U	<0.0068 U	<0.0076 U	<0.013 U	<0.010 U	<0.011 U	<0.0080 U	<0.018 U	<0.018 U	<0.014 U	0.0081 J
052918002	MW-417	5/29/2018	<0.0059 U	<0.0049 U	<0.0061 U	<0.0050 U	<0.010 U	<0.0076 U	<0.011 U	<0.0057 U	<0.0068 U	<0.0076 U	<0.013 U	<0.010 U	<0.011 U	<0.0080 U	<0.018 U	<0.018 U	<0.014 U	<0.0076 U
052918001	MW-418	5/29/2018	<0.0058 U	<0.0048 U	<0.0060 U	<0.0049 U	<0.010 U	<0.0074 U	<0.010 U	<0.0056 U	<0.0066 U	<0.0074 U	<0.013 U	<0.0098 U	<0.010 U	<0.0078 U	<0.017 U	<0.018 U	<0.014 U	<0.0075 U

Notes

Underline = concentration that attains or exceeds WDNR PAL

**BOLD** = concentration that attains or exceeds WDNR ES

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

-- = Analysis not performed

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

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

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

NS = A groundwater quality standard has not been established.

NO2 + NO3 = nitrite plus nitrate

1. Total trimethylbenzenes were calculated by NRT, an OBG Company, as follows:

- a. Where no detections were observed, the sum of the reporting limits is presented.
- b. Where detections were observed, the detected results were added together for the total summation.
- c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



**Table 1. Groundwater Analytical Results for the City of Green Bay**

May 2018 Sample Results Notification  
 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	Station Name	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	VOC	VOC	VOC	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	Inorganic	
			Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trimethylbenzenes, Total <sup>1</sup>	Arsenic, Dissolved	Barium, Dissolved	Cadmium, Dissolved	Chromium, Dissolved	Iron, Dissolved	Lead, Dissolved	Manganese, Dissolved	Mercury, Dissolved	Selenium, Dissolved	Silver, Dissolved	Chloride, Total	Nitrogen, NO2 + NO3, Total	Sulfate, 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	µg/L	µg/L	µg/L	µg/L	
WI Groundwater PAL:			<u>0.5</u>	<u>140</u>	<u>160</u>	NS	NS	<u>400</u>	NS	NS	<u>96</u>	<u>1</u>	<u>400</u>	<u>0.5</u>	<u>10</u>	<u>150</u>	<u>1.5</u>	<u>25</u>	<u>0.2</u>	<u>10</u>	<u>10</u>	<u>125,000</u>	<u>2,000</u>	<u>125,000</u>
WI Groundwater ES:			<b>5</b>	<b>700</b>	<b>800</b>	NS	NS	<b>2,000</b>	NS	NS	<b>480</b>	<b>10</b>	<b>2,000</b>	<b>5</b>	<b>100</b>	<b>300</b>	<b>15</b>	<b>50</b>	<b>2</b>	<b>50</b>	<b>50</b>	<b>250,000</b>	<b>10,000</b>	<b>250,000</b>
052918003	MW-407	5/29/2018	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<u>1.7</u> J	<u>532</u>	<0.16 U	<2.0 U	<b>11,100</b>	<0.39 U	<b>819</b>	<0.25 U*	<0.63 U	<0.20 U	--	<95 U	48,600
052918002	MW-417	5/29/2018	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<u>1.4</u> J	366	<u>2.0</u> J	<2.0 U	<b>4,930</b>	<u>1.7</u> J	<b>446</b>	<0.13 U	4.8	<0.20 U	--	1,300	94,200
052918001	MW-418	5/29/2018	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<0.56 U	223	<0.16 U	<2.0 U	<221 U*	<0.39 U	23.6	<0.13 U	<u>12.5</u>	<0.20 U	--	<u>6,500</u>	69,000

[O:ECK 7/26/18, C:SGW 7/27/18, QA: JQW 7/30/18]

Notes

Underline = concentration that attains or exceeds WDNR PAL

**BOLD** = concentration that attains or exceeds WDNR ES

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

-- = Analysis not performed

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

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

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

NS = A groundwater quality standard has not been established.

NO2 + NO3 = nitrite plus nitrate

1. Total trimethylbenzenes were calculated by NRT, an OBG Company, as follows:

- a. Where no detections were observed, the sum of the reporting limits is presented.
- b. Where detections were observed, the detected results were added together for the total summation.
- c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



**Table 2. Sample Key for the City of Green Bay**

---

May 2018 Sample Results Notification  
Wisconsin Public Service Corporation  
Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin  
BRRTS#: 02-05-000254 USEPA#: WIN000509948

<b>PACE Lab Report</b>	<b>9-digit code</b>	<b>Location ID Name</b>	<b>Matrix</b>	<b>Date</b>
40170016	052918001	MW-418	Groundwater	05/29/2018
40170016	052918002	MW-417	Groundwater	05/29/2018
40170016	052918003	MW-407	Groundwater	05/29/2018

[O:ECK 7/26/18, C:SGW 7/27/18, QA: JQW 7/30/18]

Notes:

*Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, and Date*





## Laboratory Data Reports



June 15, 2018

Eric Hritsuk  
OBG

RE: Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170016

Dear Eric Hritsuk:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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, OBG  
NRT Data, OBG  
Robert Paulson, We Energies  
Steve Wiskes, OBG



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

---

### Green Bay Certification IDs

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: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170016

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40170016001	052918001	Water	05/29/18 14:19	05/31/18 10:32
40170016002	052918002	Water	05/29/18 15:26	05/31/18 10:32
40170016003	052918003	Water	05/29/18 16:05	05/31/18 10:32

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40170016001	052918001	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	HNW	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40170016002	052918002	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	HNW	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40170016003	052918003	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	HNW	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

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

**Date:** June 15, 2018

**General Information:**

3 samples were analyzed for EPA 6020. 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 3010 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

Analyte Comments:

QC Batch: 291056

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

- 052918001 (Lab ID: 40170016001)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Lead, Dissolved
- 052918002 (Lab ID: 40170016002)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

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

**Date:** June 15, 2018

Analyte Comments:

QC Batch: 291056

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

- 052918002 (Lab ID: 40170016002)
  - Chromium, Dissolved
  - Lead, Dissolved
- 052918003 (Lab ID: 40170016003)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

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**Method:** EPA 7470

**Description:** 7470 Mercury, Dissolved

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

**Date:** June 15, 2018

**General Information:**

3 samples were analyzed for EPA 7470. 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:**

Analyte Comments:

QC Batch: 291591

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

- 052918003 (Lab ID: 40170016003)
  - Mercury, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

---

**Method:** EPA 8270 by HVI

**Description:** 8270 MSSV PAH by HVI

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

**Date:** June 15, 2018

### General Information:

3 samples were analyzed for EPA 8270 by HVI. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

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

### Sample Preparation:

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

### Initial Calibrations (including MS Tune as applicable):

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

### Continuing Calibration:

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

### Internal Standards:

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

### Surrogates:

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

### Method Blank:

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

### Laboratory Control Spike:

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

### Matrix Spikes:

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

QC Batch: 290662

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: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170016

---

**Method:** EPA 8260  
**Description:** 8260 MSV UST  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** June 15, 2018

### General Information:

3 samples were analyzed for EPA 8260. 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:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

---

**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

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

**Date:** June 15, 2018

**General Information:**

3 samples were analyzed for EPA 300.0. 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.

**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: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

---

**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

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

**Date:** June 15, 2018

**General Information:**

3 samples were analyzed for EPA 353.2. 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.

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

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

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

**Sample: 052918001**      **Lab ID: 40170016001**      Collected: 05/29/18 14:19      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Arsenic, Dissolved	<0.56	ug/L	2.0	0.56	2	06/06/18 07:19	06/13/18 07:29	7440-38-2	D3
Barium, Dissolved	223	ug/L	2.3	0.68	2	06/06/18 07:19	06/13/18 07:29	7440-39-3	
Cadmium, Dissolved	<0.16	ug/L	2.0	0.16	2	06/06/18 07:19	06/13/18 07:29	7440-43-9	D3
Chromium, Dissolved	<2.0	ug/L	6.8	2.0	2	06/06/18 07:19	06/13/18 07:29	7440-47-3	D3
Iron, Dissolved	<221	ug/L	737	221	2	06/06/18 07:19	06/13/18 07:29	7439-89-6	D3
Lead, Dissolved	<0.39	ug/L	2.0	0.39	2	06/06/18 07:19	06/13/18 07:29	7439-92-1	D3
Manganese, Dissolved	23.6	ug/L	18.0	5.4	2	06/06/18 07:19	06/13/18 07:29	7439-96-5	
Selenium, Dissolved	12.5	ug/L	2.1	0.63	2	06/06/18 07:19	06/13/18 07:29	7782-49-2	
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	06/06/18 07:19	06/13/18 07:29	7440-22-4	D3
<b>7470 Mercury, Dissolved</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Mercury, Dissolved	<0.13	ug/L	0.42	0.13	1	06/07/18 09:45	06/08/18 08:36	7439-97-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<0.0060	ug/L	0.030	0.0060	1	06/01/18 09:53	06/04/18 12:52	83-32-9	
Acenaphthylene	<0.0049	ug/L	0.024	0.0049	1	06/01/18 09:53	06/04/18 12:52	208-96-8	
Anthracene	<0.010	ug/L	0.051	0.010	1	06/01/18 09:53	06/04/18 12:52	120-12-7	
Benzo(a)anthracene	<0.0074	ug/L	0.037	0.0074	1	06/01/18 09:53	06/04/18 12:52	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.052	0.010	1	06/01/18 09:53	06/04/18 12:52	50-32-8	
Benzo(b)fluoranthene	<0.0056	ug/L	0.028	0.0056	1	06/01/18 09:53	06/04/18 12:52	205-99-2	
Benzo(g,h,i)perylene	<0.0066	ug/L	0.033	0.0066	1	06/01/18 09:53	06/04/18 12:52	191-24-2	
Benzo(k)fluoranthene	<0.0074	ug/L	0.037	0.0074	1	06/01/18 09:53	06/04/18 12:52	207-08-9	
Chrysene	<0.013	ug/L	0.064	0.013	1	06/01/18 09:53	06/04/18 12:52	218-01-9	
Dibenz(a,h)anthracene	<0.0098	ug/L	0.049	0.0098	1	06/01/18 09:53	06/04/18 12:52	53-70-3	
Fluoranthene	<0.010	ug/L	0.052	0.010	1	06/01/18 09:53	06/04/18 12:52	206-44-0	
Fluorene	<0.0078	ug/L	0.039	0.0078	1	06/01/18 09:53	06/04/18 12:52	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.086	0.017	1	06/01/18 09:53	06/04/18 12:52	193-39-5	
1-Methylnaphthalene	<0.0058	ug/L	0.029	0.0058	1	06/01/18 09:53	06/04/18 12:52	90-12-0	
2-Methylnaphthalene	<0.0048	ug/L	0.024	0.0048	1	06/01/18 09:53	06/04/18 12:52	91-57-6	
Naphthalene	<0.018	ug/L	0.090	0.018	1	06/01/18 09:53	06/04/18 12:52	91-20-3	
Phenanthrene	<0.014	ug/L	0.068	0.014	1	06/01/18 09:53	06/04/18 12:52	85-01-8	
Pyrene	<0.0075	ug/L	0.038	0.0075	1	06/01/18 09:53	06/04/18 12:52	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56	%	29-80		1	06/01/18 09:53	06/04/18 12:52	321-60-8	
Terphenyl-d14 (S)	68	%	10-123		1	06/01/18 09:53	06/04/18 12:52	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		06/01/18 17:57	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 17:57	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/01/18 17:57	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 17:57	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 17:57	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		06/01/18 17:57	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/01/18 17:57	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/01/18 17:57	95-47-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Sample Project No.: 40170016

**Sample: 052918001**      **Lab ID: 40170016001**      Collected: 05/29/18 14:19      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	100	%	67-130		1		06/01/18 17:57	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/01/18 17:57	2037-26-5	
4-Bromofluorobenzene (S)	97	%	61-130		1		06/01/18 17:57	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>69.0</b>	mg/L	15.0	5.0	5		06/12/18 11:13	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>6.5</b>	mg/L	0.25	0.095	1		06/05/18 10:02		

**Sample: 052918002**      **Lab ID: 40170016002**      Collected: 05/29/18 15:26      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Arsenic, Dissolved	<b>1.4J</b>	ug/L	2.0	0.56	2	06/06/18 07:19	06/13/18 07:36	7440-38-2	D3
Barium, Dissolved	<b>366</b>	ug/L	2.3	0.68	2	06/06/18 07:19	06/13/18 07:36	7440-39-3	
Cadmium, Dissolved	<b>2.0J</b>	ug/L	2.0	0.16	2	06/06/18 07:19	06/13/18 07:36	7440-43-9	D3
Chromium, Dissolved	<b>&lt;2.0</b>	ug/L	6.8	2.0	2	06/06/18 07:19	06/13/18 07:36	7440-47-3	D3
Iron, Dissolved	<b>4930</b>	ug/L	737	221	2	06/06/18 07:19	06/13/18 07:36	7439-89-6	
Lead, Dissolved	<b>1.7J</b>	ug/L	2.0	0.39	2	06/06/18 07:19	06/13/18 07:36	7439-92-1	D3
Manganese, Dissolved	<b>446</b>	ug/L	18.0	5.4	2	06/06/18 07:19	06/13/18 07:36	7439-96-5	
Selenium, Dissolved	<b>4.8</b>	ug/L	2.1	0.63	2	06/06/18 07:19	06/13/18 07:36	7782-49-2	
Silver, Dissolved	<b>&lt;0.20</b>	ug/L	1.0	0.20	2	06/06/18 07:19	06/13/18 07:36	7440-22-4	D3
<b>7470 Mercury, Dissolved</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury, Dissolved	<b>&lt;0.13</b>	ug/L	0.42	0.13	1	06/07/18 09:45	06/08/18 08:38	7439-97-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0061</b>	ug/L	0.030	0.0061	1	06/01/18 09:53	06/04/18 13:11	83-32-9	
Acenaphthylene	<b>&lt;0.0050</b>	ug/L	0.025	0.0050	1	06/01/18 09:53	06/04/18 13:11	208-96-8	
Anthracene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	06/01/18 09:53	06/04/18 13:11	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	06/01/18 09:53	06/04/18 13:11	56-55-3	
Benzo(a)pyrene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	06/01/18 09:53	06/04/18 13:11	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0057</b>	ug/L	0.029	0.0057	1	06/01/18 09:53	06/04/18 13:11	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0068</b>	ug/L	0.034	0.0068	1	06/01/18 09:53	06/04/18 13:11	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	06/01/18 09:53	06/04/18 13:11	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.065	0.013	1	06/01/18 09:53	06/04/18 13:11	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.010</b>	ug/L	0.050	0.010	1	06/01/18 09:53	06/04/18 13:11	53-70-3	
Fluoranthene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	06/01/18 09:53	06/04/18 13:11	206-44-0	
Fluorene	<b>&lt;0.0080</b>	ug/L	0.040	0.0080	1	06/01/18 09:53	06/04/18 13:11	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.018</b>	ug/L	0.088	0.018	1	06/01/18 09:53	06/04/18 13:11	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0059</b>	ug/L	0.030	0.0059	1	06/01/18 09:53	06/04/18 13:11	90-12-0	

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

**Sample: 052918002**      **Lab ID: 40170016002**      Collected: 05/29/18 15:26      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
2-Methylnaphthalene	<0.0049	ug/L	0.024	0.0049	1	06/01/18 09:53	06/04/18 13:11	91-57-6	
Naphthalene	<0.018	ug/L	0.092	0.018	1	06/01/18 09:53	06/04/18 13:11	91-20-3	
Phenanthrene	<0.014	ug/L	0.069	0.014	1	06/01/18 09:53	06/04/18 13:11	85-01-8	
Pyrene	<0.0076	ug/L	0.038	0.0076	1	06/01/18 09:53	06/04/18 13:11	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	29-80		1	06/01/18 09:53	06/04/18 13:11	321-60-8	
Terphenyl-d14 (S)	65	%	10-123		1	06/01/18 09:53	06/04/18 13:11	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		06/01/18 18:39	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 18:39	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/01/18 18:39	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 18:39	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 18:39	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		06/01/18 18:39	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/01/18 18:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/01/18 18:39	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	67-130		1		06/01/18 18:39	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/01/18 18:39	2037-26-5	
4-Bromofluorobenzene (S)	95	%	61-130		1		06/01/18 18:39	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	94.2	mg/L	15.0	5.0	5		06/12/18 11:24	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	1.3	mg/L	0.25	0.095	1		06/05/18 10:03		

**Sample: 052918003**      **Lab ID: 40170016003**      Collected: 05/29/18 16:05      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Arsenic, Dissolved	1.7J	ug/L	2.0	0.56	2	06/06/18 07:19	06/13/18 07:43	7440-38-2	D3
Barium, Dissolved	532	ug/L	2.3	0.68	2	06/06/18 07:19	06/13/18 07:43	7440-39-3	
Cadmium, Dissolved	<0.16	ug/L	2.0	0.16	2	06/06/18 07:19	06/13/18 07:43	7440-43-9	D3
Chromium, Dissolved	<2.0	ug/L	6.8	2.0	2	06/06/18 07:19	06/13/18 07:43	7440-47-3	D3
Iron, Dissolved	11100	ug/L	737	221	2	06/06/18 07:19	06/13/18 07:43	7439-89-6	
Lead, Dissolved	<0.39	ug/L	2.0	0.39	2	06/06/18 07:19	06/13/18 07:43	7439-92-1	D3
Manganese, Dissolved	819	ug/L	18.0	5.4	2	06/06/18 07:19	06/13/18 07:43	7439-96-5	
Selenium, Dissolved	<0.63	ug/L	2.1	0.63	2	06/06/18 07:19	06/13/18 07:43	7782-49-2	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	06/06/18 07:19	06/13/18 07:43	7440-22-4	D3

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

**Sample: 052918003**      **Lab ID: 40170016003**      Collected: 05/29/18 16:05      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>7470 Mercury, Dissolved</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Mercury, Dissolved	<0.25	ug/L	0.84	0.25	1	06/12/18 09:55	06/13/18 09:06	7439-97-6	D3
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<0.0061	ug/L	0.030	0.0061	1	06/01/18 09:53	06/04/18 13:29	83-32-9	
Acenaphthylene	<0.0050	ug/L	0.025	0.0050	1	06/01/18 09:53	06/04/18 13:29	208-96-8	
Anthracene	<0.010	ug/L	0.052	0.010	1	06/01/18 09:53	06/04/18 13:29	120-12-7	
Benzo(a)anthracene	<0.0076	ug/L	0.038	0.0076	1	06/01/18 09:53	06/04/18 13:29	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.053	0.011	1	06/01/18 09:53	06/04/18 13:29	50-32-8	
Benzo(b)fluoranthene	<0.0057	ug/L	0.029	0.0057	1	06/01/18 09:53	06/04/18 13:29	205-99-2	
Benzo(g,h,i)perylene	<0.0068	ug/L	0.034	0.0068	1	06/01/18 09:53	06/04/18 13:29	191-24-2	
Benzo(k)fluoranthene	<0.0076	ug/L	0.038	0.0076	1	06/01/18 09:53	06/04/18 13:29	207-08-9	
Chrysene	<0.013	ug/L	0.065	0.013	1	06/01/18 09:53	06/04/18 13:29	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.050	0.010	1	06/01/18 09:53	06/04/18 13:29	53-70-3	
Fluoranthene	<0.011	ug/L	0.053	0.011	1	06/01/18 09:53	06/04/18 13:29	206-44-0	
Fluorene	<0.0080	ug/L	0.040	0.0080	1	06/01/18 09:53	06/04/18 13:29	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.088	0.018	1	06/01/18 09:53	06/04/18 13:29	193-39-5	
1-Methylnaphthalene	<0.0059	ug/L	0.030	0.0059	1	06/01/18 09:53	06/04/18 13:29	90-12-0	
2-Methylnaphthalene	<0.0049	ug/L	0.024	0.0049	1	06/01/18 09:53	06/04/18 13:29	91-57-6	
Naphthalene	<0.018	ug/L	0.092	0.018	1	06/01/18 09:53	06/04/18 13:29	91-20-3	
Phenanthrene	<0.014	ug/L	0.069	0.014	1	06/01/18 09:53	06/04/18 13:29	85-01-8	
Pyrene	0.0081J	ug/L	0.038	0.0076	1	06/01/18 09:53	06/04/18 13:29	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	47	%	29-80		1	06/01/18 09:53	06/04/18 13:29	321-60-8	
Terphenyl-d14 (S)	58	%	10-123		1	06/01/18 09:53	06/04/18 13:29	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		06/01/18 19:01	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 19:01	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/01/18 19:01	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 19:01	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/01/18 19:01	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		06/01/18 19:01	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/01/18 19:01	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/01/18 19:01	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	67-130		1		06/01/18 19:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/01/18 19:01	2037-26-5	
4-Bromofluorobenzene (S)	96	%	61-130		1		06/01/18 19:01	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	48.6	mg/L	15.0	5.0	5		06/12/18 11:34	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		06/05/18 10:04		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

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QC Batch:	291213	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury Dissolved
Associated Lab Samples:	40170016001, 40170016002		

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METHOD BLANK: 1702838 Matrix: Water

Associated Lab Samples: 40170016001, 40170016002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	06/08/18 08:04	

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LABORATORY CONTROL SAMPLE: 1702839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1702840 1702841

Parameter	Units	1702840		1702841		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40170015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury, Dissolved	ug/L	<0.25	10	10	9.8	9.8	98	98	85-115	1	20

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

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QC Batch: 291591	Analysis Method: EPA 7470
QC Batch Method: EPA 7470	Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40170016003	

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METHOD BLANK: 1705073 Matrix: Water

Associated Lab Samples: 40170016003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	06/13/18 09:02	

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LABORATORY CONTROL SAMPLE: 1705074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	107	85-115	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1705075 1705076

Parameter	Units	1705075		1705076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40170016003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury, Dissolved	ug/L	<0.25	10	10	10.5	10.5	105	105	85-115	0	20	

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170016

QC Batch: 291056 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
Associated Lab Samples: 40170016001, 40170016002, 40170016003

METHOD BLANK: 1702029 Matrix: Water  
Associated Lab Samples: 40170016001, 40170016002, 40170016003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	06/13/18 06:00	
Barium, Dissolved	ug/L	<0.34	1.1	06/13/18 06:00	
Cadmium, Dissolved	ug/L	<0.081	1.0	06/13/18 06:00	
Chromium, Dissolved	ug/L	<1.0	3.4	06/13/18 06:00	
Iron, Dissolved	ug/L	<111	368	06/13/18 06:00	
Lead, Dissolved	ug/L	<0.20	1.0	06/13/18 06:00	
Manganese, Dissolved	ug/L	<2.7	9.0	06/13/18 06:00	
Selenium, Dissolved	ug/L	<0.32	1.1	06/13/18 06:00	
Silver, Dissolved	ug/L	<0.10	0.50	06/13/18 06:00	

LABORATORY CONTROL SAMPLE: 1702030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	495	99	80-120	
Barium, Dissolved	ug/L	500	473	95	80-120	
Cadmium, Dissolved	ug/L	500	508	102	80-120	
Chromium, Dissolved	ug/L	500	456	91	80-120	
Iron, Dissolved	ug/L	5000	5220	104	80-120	
Lead, Dissolved	ug/L	500	453	91	80-120	
Manganese, Dissolved	ug/L	500	462	92	80-120	
Selenium, Dissolved	ug/L	500	511	102	80-120	
Silver, Dissolved	ug/L	250	225	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1702031 1702032

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40170015001 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic, Dissolved	ug/L	<2.8	500	500	496	501	99	100	75-125	1	20
Barium, Dissolved	ug/L	545	500	500	1000	1020	91	94	75-125	1	20
Cadmium, Dissolved	ug/L	0.92J	500	500	476	485	95	97	75-125	2	20
Chromium, Dissolved	ug/L	<10.2	500	500	471	476	94	95	75-125	1	20
Iron, Dissolved	ug/L	<1110	5000	5000	4820	4840	92	93	75-125	0	20
Lead, Dissolved	ug/L	<2.0	500	500	464	470	93	94	75-125	1	20
Manganese, Dissolved	ug/L	400	500	500	850	870	90	94	75-125	2	20
Selenium, Dissolved	ug/L	<3.2	500	500	516	530	103	106	75-125	3	20
Silver, Dissolved	ug/L	<1.0	250	250	225	228	90	91	75-125	2	20

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170016

QC Batch: 290668 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 40170016001, 40170016002, 40170016003

METHOD BLANK: 1700208 Matrix: Water  
Associated Lab Samples: 40170016001, 40170016002, 40170016003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	06/01/18 16:31	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	06/01/18 16:31	
Benzene	ug/L	<0.50	1.0	06/01/18 16:31	
Ethylbenzene	ug/L	<0.50	1.0	06/01/18 16:31	
m&p-Xylene	ug/L	<1.0	2.0	06/01/18 16:31	
o-Xylene	ug/L	<0.50	1.0	06/01/18 16:31	
Toluene	ug/L	<0.50	1.0	06/01/18 16:31	
Xylene (Total)	ug/L	<1.5	3.0	06/01/18 16:31	
4-Bromofluorobenzene (S)	%	97	61-130	06/01/18 16:31	
Dibromofluoromethane (S)	%	102	67-130	06/01/18 16:31	
Toluene-d8 (S)	%	101	70-130	06/01/18 16:31	

LABORATORY CONTROL SAMPLE: 1700209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	48.0	96	73-145	
Ethylbenzene	ug/L	50	49.5	99	87-129	
m&p-Xylene	ug/L	100	98.1	98	70-130	
o-Xylene	ug/L	50	48.6	97	70-130	
Toluene	ug/L	50	46.7	93	82-130	
Xylene (Total)	ug/L	150	147	98	70-130	
4-Bromofluorobenzene (S)	%			100	61-130	
Dibromofluoromethane (S)	%			101	67-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700436 1700437

Parameter	Units	40170016001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Benzene	ug/L	<0.50	50	50	50	49.9	49.6	100	99	73-145	1	20
Ethylbenzene	ug/L	<0.50	50	50	50	51.2	51.2	102	102	87-129	0	20
m&p-Xylene	ug/L	<1.0	100	100	100	101	101	101	101	70-130	0	20
o-Xylene	ug/L	<0.50	50	50	50	50.5	50.5	101	101	70-130	0	20
Toluene	ug/L	<0.50	50	50	50	48.6	48.7	97	97	82-131	0	20
Xylene (Total)	ug/L	<1.5	150	150	150	151	152	101	101	70-130	0	20
4-Bromofluorobenzene (S)	%							103	100	61-130		
Dibromofluoromethane (S)	%							102	100	67-130		
Toluene-d8 (S)	%							100	99	70-130		

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

QC Batch: 290662 Analysis Method: EPA 8270 by HVI  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
Associated Lab Samples: 40170016001, 40170016002, 40170016003

METHOD BLANK: 1700194 Matrix: Water

Associated Lab Samples: 40170016001, 40170016002, 40170016003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/01/18 12:49	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/01/18 12:49	
Acenaphthene	ug/L	<0.0061	0.030	06/01/18 12:49	
Acenaphthylene	ug/L	<0.0050	0.025	06/01/18 12:49	
Anthracene	ug/L	<0.010	0.052	06/01/18 12:49	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/01/18 12:49	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/01/18 12:49	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/01/18 12:49	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/01/18 12:49	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/01/18 12:49	
Chrysene	ug/L	<0.013	0.065	06/01/18 12:49	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/01/18 12:49	
Fluoranthene	ug/L	<0.011	0.053	06/01/18 12:49	
Fluorene	ug/L	<0.0080	0.040	06/01/18 12:49	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/01/18 12:49	
Naphthalene	ug/L	<0.018	0.092	06/01/18 12:49	
Phenanthrene	ug/L	<0.014	0.069	06/01/18 12:49	
Pyrene	ug/L	<0.0076	0.038	06/01/18 12:49	
2-Fluorobiphenyl (S)	%	61	29-80	06/01/18 12:49	
Terphenyl-d14 (S)	%	81	10-123	06/01/18 12:49	

LABORATORY CONTROL SAMPLE & LCSD: 1700195 1700196

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	1.5	73	76	53-92	4	20	
2-Methylnaphthalene	ug/L	2	1.4	1.4	70	72	51-87	3	20	
Acenaphthene	ug/L	2	1.3	1.3	64	66	49-90	4	20	
Acenaphthylene	ug/L	2	1.3	1.3	64	65	50-84	2	20	
Anthracene	ug/L	2	1.6	1.7	79	84	49-109	6	27	
Benzo(a)anthracene	ug/L	2	1.3	1.3	63	63	42-97	1	23	
Benzo(a)pyrene	ug/L	2	1.7	1.7	83	84	61-106	1	20	
Benzo(b)fluoranthene	ug/L	2	1.5	1.5	75	76	51-95	2	20	
Benzo(g,h,i)perylene	ug/L	2	0.69	0.70	35	35	27-120	2	33	
Benzo(k)fluoranthene	ug/L	2	1.8	1.7	88	85	58-103	3	22	
Chrysene	ug/L	2	2.3	2.4	117	121	69-125	4	20	
Dibenz(a,h)anthracene	ug/L	2	0.55	0.58	28	29	21-120	5	39	
Fluoranthene	ug/L	2	1.8	1.8	88	92	68-110	4	24	
Fluorene	ug/L	2	1.4	1.5	71	73	54-95	2	21	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	1.4	68	69	50-94	1	26	
Naphthalene	ug/L	2	1.3	1.4	65	69	46-78	7	21	

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: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 1700195		1700196			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Phenanthrene	ug/L	2	1.5	1.5	73	76	51-95	4	20	
Pyrene	ug/L	2	1.8	1.9	90	94	66-106	4	24	
2-Fluorobiphenyl (S)	%				60	61	29-80			
Terphenyl-d14 (S)	%				77	80	10-123			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170016

QC Batch: 291319 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40170016001, 40170016002, 40170016003

METHOD BLANK: 1703513 Matrix: Water  
Associated Lab Samples: 40170016001, 40170016002, 40170016003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	06/12/18 10:21	

LABORATORY CONTROL SAMPLE: 1703514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1703515 1703516

Parameter	Units	40170380001 Result	MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result							
Sulfate	mg/L	10.1J	100	100	112	112	102	102	90-110	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1703517 1703518

Parameter	Units	40170062002 Result	MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result							
Sulfate	mg/L	<100	2000	2000	2080	2130	101	104	90-110	2	15		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

QC Batch: 290955

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 40170016001, 40170016002, 40170016003

METHOD BLANK: 1701456

Matrix: Water

Associated Lab Samples: 40170016001, 40170016002, 40170016003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	06/05/18 09:50	

LABORATORY CONTROL SAMPLE: 1701457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701458 1701459

Parameter	Units	1701458		1701459		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40170015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	1.5	2.5	2.5	4.0	4.0	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701460 1701461

Parameter	Units	1701460		1701461		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40170015005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	0.25J	2.5	2.5	2.8	2.8	100	101	90-110	0	20	

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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## QUALIFIERS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

---

### 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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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: 290760

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

### ANALYTE QUALIFIERS

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170016

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40170016001	052918001	EPA 3010	291056	EPA 6020	291159
40170016002	052918002	EPA 3010	291056	EPA 6020	291159
40170016003	052918003	EPA 3010	291056	EPA 6020	291159
40170016001	052918001	EPA 7470	291213	EPA 7470	291280
40170016002	052918002	EPA 7470	291213	EPA 7470	291280
40170016003	052918003	EPA 7470	291591	EPA 7470	291655
40170016001	052918001	EPA 3510	290662	EPA 8270 by HVI	290760
40170016002	052918002	EPA 3510	290662	EPA 8270 by HVI	290760
40170016003	052918003	EPA 3510	290662	EPA 8270 by HVI	290760
40170016001	052918001	EPA 8260	290668		
40170016002	052918002	EPA 8260	290668		
40170016003	052918003	EPA 8260	290668		
40170016001	052918001	EPA 300.0	291319		
40170016002	052918002	EPA 300.0	291319		
40170016003	052918003	EPA 300.0	291319		
40170016001	052918001	EPA 353.2	290955		
40170016002	052918002	EPA 353.2	290955		
40170016003	052918003	EPA 353.2	290955		

### REPORT OF LABORATORY ANALYSIS

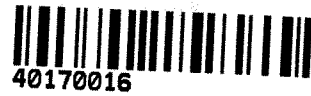
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### Sample Condition Upon Receipt Form (SCUR)

**Client Name:** OBG **Project #:** WO#: 40170016  
**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 - NA    **Type of Ice:**  Wet  Blue  Dry  None     Samples on ice, cooling process has begun  
**Cooler Temperature**    Uncorr: \_\_\_\_\_ /Corr: P.01

**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.

**Person examining contents:**  
 Date: 5/31/18  
 Initials: ALS

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: _____
<b>Short Hold Time Analysis (&lt;72hr):</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
<b>Rush Turn Around Time Requested:</b>	<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 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 checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Project Manager Review:** [Signature] **Date:** 5-31-18



Wisconsin Public Service Corporation

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

[www.wisconsinpublicservice.com](http://www.wisconsinpublicservice.com)

July 30, 2018

Mr. Jeffery Weyers  
Harbinger Development, LLC  
111 North Washington Street, #400  
Green Bay, WI, 54301

**RE: Recent Sampling Results**

Wisconsin Public Service Corporation – Former Green Bay Manufactured Gas Plant (MGP)  
700 North Adams Street, BRRTS# 0205000254

Dear Mr. Weyers,

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples (MW-401BR, MW-402R) collected in May of 2018, as part routine monitoring. Similar to other recent sampling events, no samples were collected from MW-401AR due to the presence of dense non-aqueous phase liquid (DNAPL). The presence of DNAPL in MW-401AR is not a recent occurrence, nor does it present a risk to people using the parking lot. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

Results of the sampling are summarized in the attached documents. This includes summary tables of the results compared to State standards. Copies of the relevant portions of the associated laboratory reports and a figure showing the locations of samples collected on your property are also included. The results will be presented in a future Remedial Investigation Report.

We appreciate your cooperation as sampling progresses.

If you need additional information, please contact Tauren Beggs from the WDNR at 920-662-5178 or myself at 414-221-2156.

Sincerely,

A handwritten signature in black ink that reads 'Frank Dombrowski'.

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

Mr. Jeffery Weyers  
Harbinger Development, LLC  
July 30, 2018  
Page 2

Enc: Figure 1. Harbinger Development, LLC

Table 1. Groundwater Analytical Results for Harbinger Development, LLC (May 2018)

Table 2. Sample Key for Harbinger Development, LLC (May 2018)

Laboratory Reports  
40170062\_frc

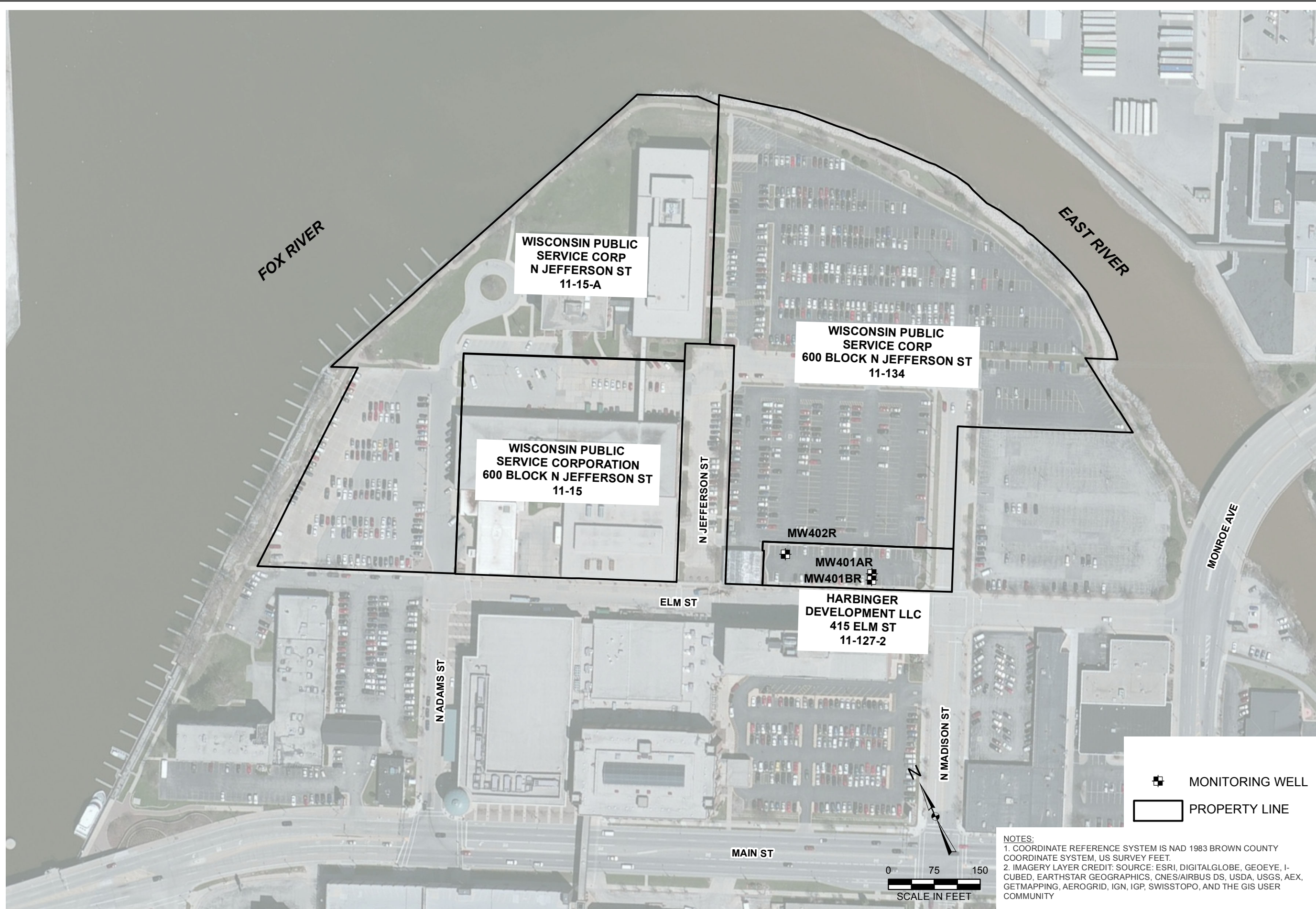
CC: USEPA RPM – Margaret Gielniewski (via email)  
WDNR PM – Tauren Beggs (via US Mail and email)  
WDNR Northeast Region (via email to [DNRRRNER@wisconsin.gov](mailto:DNRRRNER@wisconsin.gov))  
Mr. Brian Hennings, OBG (via email)



## Figures



Y:\GIS\Projects\151584\MXD\WEC Adjacent Prop Data Maps\Figure 1\_Harbinger Development, LLC.mxd Author: dduda Date/Time: 4/25/2016 12:05:11 PM



**NOTES:**  
 1. COORDINATE REFERENCE SYSTEM IS NAD 1983 BROWN COUNTY COORDINATE SYSTEM, US SURVEY FEET.  
 2. IMAGERY LAYER CREDIT: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEX, GETMAPPING, AEROGRIID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY

DRAWN BY/DATE:  
DMD 03/10/16  
 REVIEWED BY/DATE:  
ANS.  
 APPROVED BY/DATE:  
KRM.

**HARBINGER DEVELOPMENT, LLC**

RECENT SAMPLING RESULTS  
 FORMER GREEN BAY MANUFACTURED GAS PLANT  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 GREEN BAY, WISCONSIN  
 BRRTS# 0205000254

PROJECT NO: 67983

FIGURE NO: 1







## Tables

**Table 1. Groundwater Analytical Results for Harbinger Development, LLC.**

May 2018 Sample Results Notification  
 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	Station Name	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
		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
		WI Groundwater PAL:	NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50
		WI Groundwater ES:	NS	NS	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	NS	250
053018008	MW-401BR	5/30/2018	<0.0060 U	<0.0050 U	<0.0062 U	<0.0051 U	<0.011 U	<0.0077 U	<0.011 U	0.029 J	0.024 J	0.015 J	0.036 J	<0.010 U	0.053 J	<0.0081 U	0.019 J	<0.019 U	0.024 J	0.044
053018019	MW-402R	5/30/2018	122	10.0	22.6	2.6	1.7 J	<0.38 U	<0.53 U*	<0.29 U*	<0.34 U	<0.38 U	<0.65 U*	<0.50 U	0.77 J	17.4	<0.88 U	326	15.7	0.71 J

Notes  
 Underline = concentration that attains or exceeds WDNR PAL  
**BOLD = concentration that attains or exceeds WDNR ES**  
 \* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria  
 -- = Analysis not performed  
 < = Concentration is less than reported limit  
 J = Concentration estimated  
 U = Not detected  
 Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.  
 Dup = Quality Control Field Duplicate Sample  
 µg/L = micrograms per liter  
 BTEX = benzene, toluene, ethylbenzene and xylenes  
 PAH = polycyclic aromatic hydrocarbons  
 VOC = Volatile Organic Compound  
 ES = Enforcement Standard  
 PAL = Preventive Action Limit  
 PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.  
 NS = A groundwater quality standard has not been established.  
 NO2 + NO3 = nitrite plus nitrate  
 1. Total trimethylbenzenes were calculated by NRT, an OBG Company, as follows:  
 a. Where no detections were observed, the sum of the reporting limits is presented.  
 b. Where detections were observed, the detected results were added together for the total summation.  
 c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



**Table 1. Groundwater Analytical Results for Harbinger Development, LLC.**

May 2018 Sample Results Notification  
 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	Station Name	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	VOC	VOC	VOC	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	Inorganic	
			Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trimethylbenzenes, Total <sup>1</sup>	Arsenic, Dissolved	Barium, Dissolved	Cadmium, Dissolved	Chromium, Dissolved	Iron, Dissolved	Lead, Dissolved	Manganese, Dissolved	Mercury, Dissolved	Selenium, Dissolved	Silver, Dissolved	Chloride, Total	Nitrogen, NO <sub>2</sub> + NO <sub>3</sub> , Total	Sulfate, 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	µg/L	µg/L	µg/L	µg/L	
WI Groundwater PAL:			<u>0.5</u>	<u>140</u>	<u>160</u>	<u>NS</u>	<u>NS</u>	<u>400</u>	<u>NS</u>	<u>NS</u>	<u>96</u>	<u>1</u>	<u>400</u>	<u>0.5</u>	<u>10</u>	<u>150</u>	<u>1.5</u>	<u>25</u>	<u>0.2</u>	<u>10</u>	<u>10</u>	<u>125,000</u>	<u>2,000</u>	<u>125,000</u>
WI Groundwater ES:			<b>5</b>	<b>700</b>	<b>800</b>	<b>NS</b>	<b>NS</b>	<b>2,000</b>	<b>NS</b>	<b>NS</b>	<b>480</b>	<b>10</b>	<b>2,000</b>	<b>5</b>	<b>100</b>	<b>300</b>	<b>15</b>	<b>50</b>	<b>2</b>	<b>50</b>	<b>50</b>	<b>250,000</b>	<b>10,000</b>	<b>250,000</b>
053018008	MW-401BR	5/30/2018	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<0.56 U	25.2	<0.16 U	<2.0 U	<221 U*	<0.39 U	<5.4 U	<0.13 U	<0.63 U	<0.20 U	--	330	<u>1,140,000</u>
053018019	MW-402R	5/30/2018	<b>418</b>	83.4	41.4	60.2	64.2	124	48.3	5.0	53.3	<u>5.9</u> J	<b>2,270</b>	<1.6 U	<20.4 U*	<b>26,100</b>	<3.9 U*	<b>2,190</b>	<0.50 U*	<6.3 U	<2.0 U	--	<95 U	<100,000 U

[O:ECK 7/26/18, C:SGW 7/27/18, QA: JQW 7/30/18]

Notes

Underline = concentration that attains or exceeds WDNR PAL

**BOLD = concentration that attains or exceeds WDNR ES**

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

-- = Analysis not performed

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

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

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

NS = A groundwater quality standard has not been established.

NO<sub>2</sub> + NO<sub>3</sub> = nitrite plus nitrate

1. Total trimethylbenzenes were calculated by NRT, an OBG Company, as follows:

- a. Where no detections were observed, the sum of the reporting limits is presented.
- b. Where detections were observed, the detected results were added together for the total summation.
- c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



**Table 2. Sample Key for Harbinger Development, LLC.**

---

May 2018 Sample Results Notification

Wisconsin Public Service Corporation

Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin

BRRTS#: 02-05-000254 USEPA#: WIN000509948

<b>PACE Lab Report</b>	<b>9-digit code</b>	<b>Location ID Name</b>	<b>Matrix</b>	<b>Date</b>
40170062	053018008	MW-401BR	Groundwater	05/30/2018
40170062	053018019	MW-402R	Groundwater	05/30/2018

[O:ECK 7/26/18, C:SGW 7/27/18. QA: JQW 7/30/18]

Notes:

*Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, and Date*





## Laboratory Data Reports

June 15, 2018

Eric Hritsuk  
OBG

,

RE: Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170062

Dear Eric Hritsuk:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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, OBG  
NRT Data, OBG  
Robert Paulson, We Energies  
Steve Wiskes, OBG



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

---

### Green Bay Certification IDs

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: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40170062001	053018008	Water	05/30/18 07:15	05/31/18 10:32
40170062002	053018019	Water	05/30/18 17:49	05/31/18 10:32

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40170062001	053018008	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40170062002	053018019	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

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

**Date:** June 15, 2018

### General Information:

2 samples were analyzed for EPA 6020. 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 3010 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

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

### Continuing Calibration:

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

### Internal Standards:

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

### Method Blank:

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

### Laboratory Control Spike:

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

### Matrix Spikes:

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

### Additional Comments:

Analyte Comments:

QC Batch: 291463

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

- 053018008 (Lab ID: 40170062001)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- 053018019 (Lab ID: 40170062002)
  - Silver, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

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

**Date:** June 15, 2018

Analyte Comments:

QC Batch: 291463

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

- 053018019 (Lab ID: 40170062002)
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

---

**Method:** EPA 7470

**Description:** 7470 Mercury, Dissolved

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

**Date:** June 15, 2018

**General Information:**

2 samples were analyzed for EPA 7470. 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:**

Analyte Comments:

QC Batch: 291591

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

- 053018019 (Lab ID: 40170062002)
  - Mercury, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

---

**Method:** EPA 8270 by HVI

**Description:** 8270 MSSV PAH by HVI

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

**Date:** June 15, 2018

### General Information:

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

### Hold Time:

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

### Sample Preparation:

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

### Initial Calibrations (including MS Tune as applicable):

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

### Continuing Calibration:

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

### Internal Standards:

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

### Surrogates:

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

### Method Blank:

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

### Laboratory Control Spike:

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

### Matrix Spikes:

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

QC Batch: 290833

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: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

---

**Method:** EPA 8260

**Description:** 8260 MSV UST

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

**Date:** June 15, 2018

### General Information:

2 samples were analyzed for EPA 8260. 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:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

---

**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

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

**Date:** June 15, 2018

**General Information:**

2 samples were analyzed for EPA 300.0. 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.

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

Analyte Comments:

QC Batch: 291319

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

- 053018019 (Lab ID: 40170062002)
  - Sulfate

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

---

**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

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

**Date:** June 15, 2018

**General Information:**

2 samples were analyzed for EPA 353.2. 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.

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

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

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

**Sample: 053018008**      **Lab ID: 40170062001**      Collected: 05/30/18 07:15      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Arsenic, Dissolved	<0.56	ug/L	2.0	0.56	2	06/11/18 07:31	06/15/18 02:58	7440-38-2	D3
Barium, Dissolved	25.2	ug/L	2.3	0.68	2	06/11/18 07:31	06/13/18 21:39	7440-39-3	
Cadmium, Dissolved	<0.16	ug/L	2.0	0.16	2	06/11/18 07:31	06/15/18 02:58	7440-43-9	D3
Chromium, Dissolved	<2.0	ug/L	6.8	2.0	2	06/11/18 07:31	06/15/18 02:58	7440-47-3	D3
Iron, Dissolved	<221	ug/L	737	221	2	06/11/18 07:31	06/15/18 02:58	7439-89-6	D3
Lead, Dissolved	<0.39	ug/L	2.0	0.39	2	06/11/18 07:31	06/13/18 21:39	7439-92-1	D3
Manganese, Dissolved	<5.4	ug/L	18.0	5.4	2	06/11/18 07:31	06/15/18 02:58	7439-96-5	D3
Selenium, Dissolved	<0.63	ug/L	2.1	0.63	2	06/11/18 07:31	06/15/18 02:58	7782-49-2	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	06/11/18 07:31	06/15/18 02:58	7440-22-4	D3
<b>7470 Mercury, Dissolved</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Mercury, Dissolved	<0.13	ug/L	0.42	0.13	1	06/07/18 09:45	06/08/18 08:41	7439-97-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<0.0062	ug/L	0.031	0.0062	1	06/04/18 10:05	06/07/18 17:12	83-32-9	
Acenaphthylene	<0.0051	ug/L	0.025	0.0051	1	06/04/18 10:05	06/07/18 17:12	208-96-8	
Anthracene	<0.011	ug/L	0.053	0.011	1	06/04/18 10:05	06/07/18 17:12	120-12-7	
Benzo(a)anthracene	<0.0077	ug/L	0.039	0.0077	1	06/04/18 10:05	06/07/18 17:12	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.054	0.011	1	06/04/18 10:05	06/07/18 17:12	50-32-8	
Benzo(b)fluoranthene	0.029J	ug/L	0.029	0.0059	1	06/04/18 10:05	06/07/18 17:12	205-99-2	
Benzo(g,h,i)perylene	0.024J	ug/L	0.035	0.0069	1	06/04/18 10:05	06/07/18 17:12	191-24-2	
Benzo(k)fluoranthene	0.015J	ug/L	0.039	0.0077	1	06/04/18 10:05	06/07/18 17:12	207-08-9	
Chrysene	0.036J	ug/L	0.067	0.013	1	06/04/18 10:05	06/07/18 17:12	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.051	0.010	1	06/04/18 10:05	06/07/18 17:12	53-70-3	
Fluoranthene	0.053J	ug/L	0.054	0.011	1	06/04/18 10:05	06/07/18 17:12	206-44-0	
Fluorene	<0.0081	ug/L	0.041	0.0081	1	06/04/18 10:05	06/07/18 17:12	86-73-7	
Indeno(1,2,3-cd)pyrene	0.019J	ug/L	0.090	0.018	1	06/04/18 10:05	06/07/18 17:12	193-39-5	
1-Methylnaphthalene	<0.0060	ug/L	0.030	0.0060	1	06/04/18 10:05	06/07/18 17:12	90-12-0	
2-Methylnaphthalene	<0.0050	ug/L	0.025	0.0050	1	06/04/18 10:05	06/07/18 17:12	91-57-6	
Naphthalene	<0.019	ug/L	0.094	0.019	1	06/04/18 10:05	06/07/18 17:12	91-20-3	
Phenanthrene	0.024J	ug/L	0.070	0.014	1	06/04/18 10:05	06/07/18 17:12	85-01-8	
Pyrene	0.044	ug/L	0.039	0.0078	1	06/04/18 10:05	06/07/18 17:12	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	29-80		1	06/04/18 10:05	06/07/18 17:12	321-60-8	
Terphenyl-d14 (S)	70	%	10-123		1	06/04/18 10:05	06/07/18 17:12	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:35	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:35	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:35	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:35	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:35	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		06/05/18 12:35	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/05/18 12:35	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/05/18 12:35	95-47-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Lab Project No.: 40170062

Sample: 053018008 Lab ID: 40170062001 Collected: 05/30/18 07:15 Received: 05/31/18 10:32 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	94	%	70-130		1		06/05/18 12:35	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/05/18 12:35	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		06/05/18 12:35	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	1140	mg/L	300	100	100		06/13/18 10:51	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.33	mg/L	0.25	0.095	1		06/05/18 10:07		

Sample: 053018019 Lab ID: 40170062002 Collected: 05/30/18 17:49 Received: 05/31/18 10:32 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Arsenic, Dissolved	5.9J	ug/L	20.0	5.6	20	06/11/18 07:31	06/15/18 03:25	7440-38-2	D3
Barium, Dissolved	2270	ug/L	22.8	6.8	20	06/11/18 07:31	06/13/18 22:06	7440-39-3	
Cadmium, Dissolved	<1.6	ug/L	20.0	1.6	20	06/11/18 07:31	06/15/18 03:25	7440-43-9	D3
Chromium, Dissolved	<20.4	ug/L	68.0	20.4	20	06/11/18 07:31	06/15/18 03:25	7440-47-3	D3
Iron, Dissolved	26100	ug/L	7370	2210	20	06/11/18 07:31	06/15/18 03:25	7439-89-6	
Lead, Dissolved	<3.9	ug/L	20.0	3.9	20	06/11/18 07:31	06/13/18 22:06	7439-92-1	D3
Manganese, Dissolved	2190	ug/L	180	54.0	20	06/11/18 07:31	06/15/18 03:25	7439-96-5	
Selenium, Dissolved	<6.3	ug/L	21.2	6.3	20	06/11/18 07:31	06/15/18 03:25	7782-49-2	D3
Silver, Dissolved	<2.0	ug/L	10.0	2.0	20	06/11/18 07:31	06/15/18 03:25	7440-22-4	D3
<b>7470 Mercury, Dissolved</b> Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.50	ug/L	1.7	0.50	1	06/12/18 09:55	06/13/18 10:00	7439-97-6	D3
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	22.6	ug/L	1.5	0.30	50	06/04/18 10:05	06/07/18 23:02	83-32-9	
Acenaphthylene	2.6	ug/L	1.2	0.25	50	06/04/18 10:05	06/07/18 23:02	208-96-8	
Anthracene	1.7J	ug/L	2.6	0.52	50	06/04/18 10:05	06/07/18 23:02	120-12-7	
Benzo(a)anthracene	<0.38	ug/L	1.9	0.38	50	06/04/18 10:05	06/07/18 23:02	56-55-3	
Benzo(a)pyrene	<0.53	ug/L	2.6	0.53	50	06/04/18 10:05	06/07/18 23:02	50-32-8	
Benzo(b)fluoranthene	<0.29	ug/L	1.4	0.29	50	06/04/18 10:05	06/07/18 23:02	205-99-2	
Benzo(g,h,i)perylene	<0.34	ug/L	1.7	0.34	50	06/04/18 10:05	06/07/18 23:02	191-24-2	
Benzo(k)fluoranthene	<0.38	ug/L	1.9	0.38	50	06/04/18 10:05	06/07/18 23:02	207-08-9	
Chrysene	<0.65	ug/L	3.3	0.65	50	06/04/18 10:05	06/07/18 23:02	218-01-9	
Dibenz(a,h)anthracene	<0.50	ug/L	2.5	0.50	50	06/04/18 10:05	06/07/18 23:02	53-70-3	
Fluoranthene	0.77J	ug/L	2.7	0.53	50	06/04/18 10:05	06/07/18 23:02	206-44-0	
Fluorene	17.4	ug/L	2.0	0.40	50	06/04/18 10:05	06/07/18 23:02	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.88	ug/L	4.4	0.88	50	06/04/18 10:05	06/07/18 23:02	193-39-5	
1-Methylnaphthalene	122	ug/L	1.5	0.30	50	06/04/18 10:05	06/07/18 23:02	90-12-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

**Sample: 053018019**      **Lab ID: 40170062002**      Collected: 05/30/18 17:49      Received: 05/31/18 10:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510							
2-Methylnaphthalene	<b>10.0</b>	ug/L	1.2	0.24	50	06/04/18 10:05	06/07/18 23:02	91-57-6	
Naphthalene	<b>326</b>	ug/L	4.6	0.92	50	06/04/18 10:05	06/07/18 23:02	91-20-3	
Phenanthrene	<b>15.7</b>	ug/L	3.4	0.69	50	06/04/18 10:05	06/07/18 23:02	85-01-8	
Pyrene	<b>0.71J</b>	ug/L	1.9	0.38	50	06/04/18 10:05	06/07/18 23:02	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	43	%	29-80		50	06/04/18 10:05	06/07/18 23:02	321-60-8	
Terphenyl-d14 (S)	38	%	10-123		50	06/04/18 10:05	06/07/18 23:02	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>418</b>	ug/L	4.0	2.0	4		06/06/18 03:26	71-43-2	
Ethylbenzene	<b>83.4</b>	ug/L	4.0	2.0	4		06/06/18 03:26	100-41-4	
Toluene	<b>41.4</b>	ug/L	4.0	2.0	4		06/06/18 03:26	108-88-3	
1,2,4-Trimethylbenzene	<b>48.3</b>	ug/L	4.0	2.0	4		06/06/18 03:26	95-63-6	
1,3,5-Trimethylbenzene	<b>5.0</b>	ug/L	4.0	2.0	4		06/06/18 03:26	108-67-8	
Xylene (Total)	<b>124</b>	ug/L	12.0	6.0	4		06/06/18 03:26	1330-20-7	
m&p-Xylene	<b>64.2</b>	ug/L	8.0	4.0	4		06/06/18 03:26	179601-23-1	
o-Xylene	<b>60.2</b>	ug/L	4.0	2.0	4		06/06/18 03:26	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	92	%	70-130		4		06/06/18 03:26	1868-53-7	
Toluene-d8 (S)	93	%	70-130		4		06/06/18 03:26	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		4		06/06/18 03:26	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>&lt;100</b>	mg/L	300	100	100		06/13/18 11:02	14808-79-8	D3
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		06/05/18 10:12		

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

QC Batch: 291213

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury Dissolved

Associated Lab Samples: 40170062001

METHOD BLANK: 1702838

Matrix: Water

Associated Lab Samples: 40170062001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	06/08/18 08:04	

LABORATORY CONTROL SAMPLE: 1702839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1702840 1702841

Parameter	Units	1702840		1702841		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40170015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury, Dissolved	ug/L	<0.25	10	10	9.8	9.8	98	98	85-115	1	20

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

QC Batch: 291591

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury Dissolved

Associated Lab Samples: 40170062002

METHOD BLANK: 1705073

Matrix: Water

Associated Lab Samples: 40170062002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	06/13/18 09:02	

LABORATORY CONTROL SAMPLE: 1705074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1705075 1705076

Parameter	Units	1705075		1705076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40170016003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury, Dissolved	ug/L	<0.25	10	10	10.5	10.5	105	105	85-115	0	20

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

QC Batch: 291463

Analysis Method: EPA 6020

QC Batch Method: EPA 3010

Analysis Description: 6020 MET Dissolved

Associated Lab Samples: 40170062001, 40170062002

METHOD BLANK: 1704663

Matrix: Water

Associated Lab Samples: 40170062001, 40170062002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	06/15/18 02:44	
Barium, Dissolved	ug/L	<0.34	1.1	06/13/18 21:26	
Cadmium, Dissolved	ug/L	<0.081	1.0	06/15/18 02:44	
Chromium, Dissolved	ug/L	<1.0	3.4	06/15/18 02:44	
Iron, Dissolved	ug/L	<111	368	06/15/18 02:44	
Lead, Dissolved	ug/L	<0.20	1.0	06/13/18 21:26	
Manganese, Dissolved	ug/L	<2.7	9.0	06/15/18 02:44	
Selenium, Dissolved	ug/L	<0.32	1.1	06/15/18 02:44	
Silver, Dissolved	ug/L	<0.10	0.50	06/15/18 02:44	

LABORATORY CONTROL SAMPLE: 1704664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	505	101	80-120	
Barium, Dissolved	ug/L	500	496	99	80-120	
Cadmium, Dissolved	ug/L	500	531	106	80-120	
Chromium, Dissolved	ug/L	500	491	98	80-120	
Iron, Dissolved	ug/L	5000	5100	102	80-120	
Lead, Dissolved	ug/L	500	498	100	80-120	
Manganese, Dissolved	ug/L	500	483	97	80-120	
Selenium, Dissolved	ug/L	500	540	108	80-120	
Silver, Dissolved	ug/L	250	256	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1704665

1704666

Parameter	Units	40170062001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic, Dissolved	ug/L	<0.56	500	500	512	510	102	102	75-125	0	20	
Barium, Dissolved	ug/L	25.2	500	500	530	524	101	100	75-125	1	20	
Cadmium, Dissolved	ug/L	<0.16	500	500	520	518	104	104	75-125	0	20	
Chromium, Dissolved	ug/L	<2.0	500	500	487	493	97	99	75-125	1	20	
Iron, Dissolved	ug/L	<221	5000	5000	4950	4960	99	99	75-125	0	20	
Lead, Dissolved	ug/L	<0.39	500	500	509	513	102	103	75-125	1	20	
Manganese, Dissolved	ug/L	<5.4	500	500	476	479	95	95	75-125	1	20	
Selenium, Dissolved	ug/L	<0.63	500	500	527	517	105	103	75-125	2	20	
Silver, Dissolved	ug/L	<0.20	250	250	237	241	95	96	75-125	2	20	

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170062

QC Batch: 290808 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 40170062001, 40170062002

METHOD BLANK: 1701072 Matrix: Water  
Associated Lab Samples: 40170062001, 40170062002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	06/05/18 07:29	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	06/05/18 07:29	
Benzene	ug/L	<0.50	1.0	06/05/18 07:29	
Ethylbenzene	ug/L	<0.50	1.0	06/05/18 07:29	
m&p-Xylene	ug/L	<1.0	2.0	06/05/18 07:29	
o-Xylene	ug/L	<0.50	1.0	06/05/18 07:29	
Toluene	ug/L	<0.50	1.0	06/05/18 07:29	
Xylene (Total)	ug/L	<1.5	3.0	06/05/18 07:29	
4-Bromofluorobenzene (S)	%	89	70-130	06/05/18 07:29	
Dibromofluoromethane (S)	%	95	70-130	06/05/18 07:29	
Toluene-d8 (S)	%	98	70-130	06/05/18 07:29	

LABORATORY CONTROL SAMPLE: 1701073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	43.6	87	69-137	
Ethylbenzene	ug/L	50	51.6	103	86-127	
m&p-Xylene	ug/L	100	112	112	70-131	
o-Xylene	ug/L	50	52.7	105	70-130	
Toluene	ug/L	50	50.1	100	84-124	
Xylene (Total)	ug/L	150	164	110	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701470 1701471

Parameter	Units	40170015002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MS Result	MSD Result						
Benzene	ug/L	<0.50	50	50	44.4	44.5	89	89	66-143	0	20	
Ethylbenzene	ug/L	<0.50	50	50	49.7	52.0	99	104	81-136	4	20	
m&p-Xylene	ug/L	<1.0	100	100	108	112	108	112	70-135	4	20	
o-Xylene	ug/L	<0.50	50	50	52.4	54.7	105	109	70-132	4	20	
Toluene	ug/L	<0.50	50	50	50.5	53.2	101	106	81-130	5	20	
Xylene (Total)	ug/L	<1.5	150	150	160	167	107	111	70-134	4	20	
4-Bromofluorobenzene (S)	%						94	98	70-130			
Dibromofluoromethane (S)	%						97	97	70-130			
Toluene-d8 (S)	%						93	96	70-130			

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170062

QC Batch: 290833 Analysis Method: EPA 8270 by HVI  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
Associated Lab Samples: 40170062001, 40170062002

METHOD BLANK: 1701147 Matrix: Water  
Associated Lab Samples: 40170062001, 40170062002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/04/18 15:09	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/04/18 15:09	
Acenaphthene	ug/L	<0.0061	0.030	06/04/18 15:09	
Acenaphthylene	ug/L	<0.0050	0.025	06/04/18 15:09	
Anthracene	ug/L	<0.010	0.052	06/04/18 15:09	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/04/18 15:09	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/04/18 15:09	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/04/18 15:09	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/04/18 15:09	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/04/18 15:09	
Chrysene	ug/L	<0.013	0.065	06/04/18 15:09	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/04/18 15:09	
Fluoranthene	ug/L	<0.011	0.053	06/04/18 15:09	
Fluorene	ug/L	<0.0080	0.040	06/04/18 15:09	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/04/18 15:09	
Naphthalene	ug/L	<0.018	0.092	06/04/18 15:09	
Phenanthrene	ug/L	<0.014	0.069	06/04/18 15:09	
Pyrene	ug/L	<0.0076	0.038	06/04/18 15:09	
2-Fluorobiphenyl (S)	%	53	29-80	06/04/18 15:09	
Terphenyl-d14 (S)	%	85	10-123	06/04/18 15:09	

LABORATORY CONTROL SAMPLE & LCSD: 1701148 1701149

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	1.3	69	66	53-92	4	20	
2-Methylnaphthalene	ug/L	2	1.3	1.2	64	61	51-87	4	20	
Acenaphthene	ug/L	2	1.2	1.2	60	60	49-90	0	20	
Acenaphthylene	ug/L	2	1.2	1.1	59	57	50-84	3	20	
Anthracene	ug/L	2	1.5	1.5	76	77	49-109	2	27	
Benzo(a)anthracene	ug/L	2	1.3	1.2	63	59	42-97	6	23	
Benzo(a)pyrene	ug/L	2	1.6	1.6	82	81	61-106	1	20	
Benzo(b)fluoranthene	ug/L	2	1.6	1.5	79	77	51-95	3	20	
Benzo(g,h,i)perylene	ug/L	2	1.1	1.0	55	50	27-120	10	33	
Benzo(k)fluoranthene	ug/L	2	1.7	1.7	86	86	58-103	0	22	
Chrysene	ug/L	2	2.4	2.4	118	119	69-125	1	20	
Dibenz(a,h)anthracene	ug/L	2	1.0	0.89	52	44	21-120	15	39	
Fluoranthene	ug/L	2	1.8	1.7	88	87	68-110	2	24	
Fluorene	ug/L	2	1.3	1.3	65	67	54-95	3	21	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	1.6	83	80	50-94	4	26	
Naphthalene	ug/L	2	1.2	1.2	62	58	46-78	7	21	

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

LABORATORY CONTROL SAMPLE & LCSD: 1701148		1701149								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Phenanthrene	ug/L	2	1.4	1.4	70	70	51-95	0	20	
Pyrene	ug/L	2	1.8	1.8	91	89	66-106	2	24	
2-Fluorobiphenyl (S)	%				55	55	29-80			
Terphenyl-d14 (S)	%				78	78	10-123			

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

QC Batch: 291319 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40170062001, 40170062002

METHOD BLANK: 1703513 Matrix: Water  
Associated Lab Samples: 40170062001, 40170062002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	06/12/18 10:21	

LABORATORY CONTROL SAMPLE: 1703514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1703515 1703516

Parameter	Units	40170380001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Sulfate	mg/L	10.1J	100	100	112	112	102	102	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1703517 1703518

Parameter	Units	40170062002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Sulfate	mg/L	<100	2000	2000	2080	2130	101	104	90-110	2	15	

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### QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170062

QC Batch: 290955 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40170062001, 40170062002

METHOD BLANK: 1701456 Matrix: Water  
Associated Lab Samples: 40170062001, 40170062002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	06/05/18 09:50	

LABORATORY CONTROL SAMPLE: 1701457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701458 1701459

Parameter	Units	40170015001		40170015002		40170015003		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Nitrogen, NO2 plus NO3	mg/L	1.5	2.5	2.5	4.0	4.0	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701460 1701461

Parameter	Units	40170015005		40170015006		40170015007		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Nitrogen, NO2 plus NO3	mg/L	0.25J	2.5	2.5	2.8	2.8	100	101	90-110	0	20	

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## QUALIFIERS

Project: 1584/22.2 GREEN BAY FORMER MGP  
Pace Project No.: 40170062

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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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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: 290908

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

### ANALYTE QUALIFIERS

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40170062

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40170062001	053018008	EPA 3010	291463	EPA 6020	291557
40170062002	053018019	EPA 3010	291463	EPA 6020	291557
40170062001	053018008	EPA 7470	291213	EPA 7470	291280
40170062002	053018019	EPA 7470	291591	EPA 7470	291655
40170062001	053018008	EPA 3510	290833	EPA 8270 by HVI	290908
40170062002	053018019	EPA 3510	290833	EPA 8270 by HVI	290908
40170062001	053018008	EPA 8260	290808		
40170062002	053018019	EPA 8260	290808		
40170062001	053018008	EPA 300.0	291319		
40170062002	053018019	EPA 300.0	291319		
40170062001	053018008	EPA 353.2	290955		
40170062002	053018019	EPA 353.2	290955		

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### Sample Condition Upon Receipt Form (SCUR)

Project #:

**WO# : 40170062**



Client Name: DRG

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 - NA Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: \_\_\_\_\_ /Corr: 20

Temp Blank Present:  yes  no

Biological Tissue is Frozen:  yes  no

Person examining contents:

Date: 6/1/18

Initials: CB

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <u>6/1/18</u> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		12. <u>002 - 250 ml pA - No time.</u>
-Includes date/time/ID/Analysis Matrix: <u>N</u>		<u>6/1/18</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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: \_\_\_\_\_

Project Manager Review: [Signature]

Date: 6-1-18