



We Energies
333 West Everett St., A231
Milwaukee, WI 53203
www.we-energies.com

August 17, 2018

Ms. Jennifer Borski
Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Dept. of Natural Resources
625 E. Cty. Road Y, Ste. 700
Oshkosh, WI 54901

**Subject: Transmittal of July 2018 Monitoring Well Sampling Results We Energies' Appleton
MGP Site, FID #445033380, BRRTS #02-45-000042**

Dear Ms. Borski:

We Energies recently received final analytical results for monitoring wells and piezometers for our July 2018 quarterly sampling event on the Fox River Mills Apartments property, located adjacent to the above referenced site. A copy of the notification to the property owner and associated summary report are attached.

Please do not hesitate to contact me at (414) 221-2156 or via email at frank.dombrowski@we-energies.com if you have any questions or if further information may be required.

Sincerely,

A handwritten signature in black ink, appearing to read "Frank Dombrowski".

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

Enclosure

Cc: Project File
W. Musekamp, We Energies
B. Hennings, OBG



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August 17, 2018

Mr. Dean Bornemann
Area Manager
Oakbrook Corp.
111 E Water St., #300
Appleton, WI 54911

Subject: July 2018 Groundwater Sampling Results for Fox River Mills Properties

Dear Mr. Bornemann,

We Energies recently completed groundwater sampling at your proper as part of routine quarterly monitoring for the former manufactured gas plant (MGP) site located at 337 Water Street in Appleton, Wisconsin (Figure 1) summarizes routine groundwater sampling activities that occurred in July 2018 located on the property occupied by the Fox River Mills Apartments (Figure 1 in the attached report).

Two wells (PZ-26 and PZ-28) contained evidence of free product (oily material) at thicknesses comparable to previous monitoring events. Due to small amount of material present, no attempt was made to recover free product during this sampling event and free product was not observed in other wells. Consistent with previous samples collected from the existing wells, presence of volatile organic compounds (VOCs), naphthalene, and metals in groundwater were present above the Wisconsin Department of Natural Resources (WDNR) Enforcement Standards (ES) and/or the WDNR preventative action limit (PAL).

The laboratory report containing groundwater results is included in Attachment A and the results are summarized in Table 1. There are no indications that the observed groundwater impacts are a recent occurrence or pose an immediate risk to the health of the occupants in the apartment building. However, the presence of free product will warrant further investigation and we plan to continue quarterly monitoring activities on your property consistent with the WDNR-approved Supplemental Site Investigation Plan and the access agreement.

We Energies appreciates your ongoing cooperation and assistance with this matter. Please feel free to contact me at your convenience at (414) 221-2156 or via email at frank.dombrowski@we-energies.com with any questions or if further information may be needed.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frank Dombrowski'.

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

Enclosures

Cc: Project File
J. Borski, WDNR
W. Musekamp, We Energies
B. Hennings, OBG
Janet Smith, Heartland Properties, Inc.



Figure



Y:\GIS\Projects\1511508\MXD\SSWP\Figure 1_Site Features.mxd Author: stolzsd; Date/Time: 2/19/2018, 3:12:24 PM



- | | |
|--------------------------------|---|
| ⊕ SUB-SLAB SOIL GAS PROBE | ▨ POTENTIAL HISTORICAL NEEDLE DAM STRUCTURE |
| ⊕ MONITORING WELL / PIEZOMETER | ⬜ TAX PARCEL AND OWNER |
| ● STAFF GAUGE | — BUILDING FOOTPRINT / CURB |
| ⊕ SOIL VAPOR PROBE | ×—× FENCE |
| ⋯ FORMER MGP SITE PERIMETER | — ELEVATOR SHAFT |
| | — SHORELINE |

DRAWN BY/DATE:
TDC 9/30/15
REVIEWED BY/DATE:
BGH 9/30/15
APPROVED BY/DATE:
BGH 9/30/15

SITE FEATURES
FORMER APPLETON MANUFACTURED GAS PLANT (MGP) FACILITY
WE ENERGIES
APPLETON, WISCONSIN

PROJECT NO: 1508

FIGURE NO: 1





Tables



Table 1. Summary of Groundwater Results - Heartland-Appleton Fox River Mills

July 2018 Sample Results Notification
 We Energies, Appleton City (Coal Tar), aka Appleton MGP
 WDNR ERP Case #02-45-000042

Sample Location	Sample Date	VOC							MNA							
		Benzene	Ethylbenzene	Naphthalene	Toluene	Xylene m + p	Xylene o	Total Xylenes ¹	Alkalinity, Total as CaCO ₃	Iron, Dissolved	Manganese, Dissolved	Methane	Nitrate as N	Nitrite as N	Nitrogen, NO ₂ plus NO ₃	Sulfate
Reporting Units:		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Wisconsin PAL:		<u>0.5</u>	<u>140</u>	<u>10</u>	<u>160</u>	NS	NS	<u>400</u>	NS	<u>150</u>	<u>60</u>	NS	<u>2</u>	<u>0.2</u>	<u>2</u>	<u>125</u>
Wisconsin ES:		5	700	100	800	NS	NS	2,000	NS	300	300	NS	10	1.0	10	250
MW-26	07/26/2018	<u>9.6</u>	<0.22 U	2.2 J	<0.17 U	<0.47 U	0.34 J	0.34 J	315	898	<u>151</u>	3,320	<0.075 U	<0.040 U	<0.12 U	12.7
MW-27	07/26/2018	458	64.9	671	1.5 J	7.2 J	10.1	17.3 J	220	776	<u>105</u>	2,650	<0.075 U	<0.040 U	<0.12 U	<1.0 U
MW-27 Dup	07/26/2018	450	62.9	660	1.5 J	6.0 J	10	16.0 J	223	799	<u>106</u>	2,670	<0.075 U	<0.040 U	<0.12 U	<1.0 U
MW-28	07/26/2018	<0.25 U	<0.22 U	<1.2 U	<0.17 U	<0.47 U	<0.26 U	<0.73 U	202	1,150	<u>290</u>	2,500	<0.075 U	<0.20 U*	<0.58 U	4.3
PZ-23	07/26/2018	763	56.6	863	1.8 J	10.1 J	11	21.1 J	218	615	<u>92.6</u>	3,330	<0.075 U	<0.040 U	<0.12 U	<1.0 U
PZ-27	07/26/2018	406	37.6	535	1.7 J	7.3 J	12	19.3 J	224	1,060	<u>105</u>	2,730	<0.075 U	<0.040 U	<0.12 U	<1.0 U

[O:ECK 8/9/18][C:MGP 8/10/18] [QC: JQW 8/13/18]

NOTES:

Underline value exceeds the Preventative Action Limit

BOLD Value exceeds the Enforcement Standard

U = Parameter not detected above the Limit of Detection indicated

J = Estimated concentration

< = Concentration is less than reported limit

Lab comments and definitions can be found in associated laboratory reports.

MNA = Monitored Natural Attenuation

VOC = Volatile Organic Compound

DUP = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

mg/L = milligrams per liter

MGP = manufactured gas plant

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

ES = Enforcement Standard

PAL = Preventive Action Limit

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

NS = No Standard

1. Total Xylenes were calculated by OBG 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. Analytes used for the calculation are Xylene-o and Xylene-m+p.



Table 2. Sample Key for Heartland-Appleton Fox River Mills

June 2018 Sample Results Notification

We Energies, Appleton City (Coal Tar), aka Appleton MGP

WDNR ERP Case #02-45-000042

PACE Lab_Report	Location ID_Name	Duplicate of	Matrix	Sample Date
40173139	MW-26	--	Groundwater	07/26/2018
40173139	MW-27	--	Groundwater	07/26/2018
40173139	MW-27 Dup	MW-27	Groundwater	07/26/2018
40173139	MW-28	--	Groundwater	07/26/2018
40173139	PZ-23	--	Groundwater	07/26/2018
40173139	PZ-27	--	Groundwater	07/26/2018

[O:ECK 8/9/18][C:MGP 8/10/18] [QC: JQW 8/13/18]

Notes:

Sorted by: Location Name

MGP = manufactured gas plant

DUP = Duplicate Quality Control Sample





Laboratory Data Report



August 08, 2018

David Kollakowsky
We Energies
333 W. Everett St
Room P129
Milwaukee, WI 532012179

RE: Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40173139

Dear David Kollakowsky:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 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: Frank Dombrowski, WE Energies
Brian Hennings, OBG



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

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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SAMPLE SUMMARY

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40173139001	PZ-23	Water	07/26/18 08:45	07/26/18 13:35
40173139002	MW-28	Water	07/26/18 09:36	07/26/18 13:35
40173139003	MW-26	Water	07/26/18 10:48	07/26/18 13:35
40173139004	MW-27	Water	07/26/18 11:52	07/26/18 13:35
40173139005	QA/QC 1	Water	07/26/18 11:57	07/26/18 13:35
40173139006	PZ-27	Water	07/26/18 12:33	07/26/18 13:35
40173139007	EQUIPMENT BLANK 1	Water	07/26/18 12:47	07/26/18 13:35
40173139008	TRIP BLANK	Water	07/26/18 00:00	07/26/18 13:35

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SAMPLE ANALYTE COUNT

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40173139001	PZ-23	EPA 8015B Modified	ALD	1
		EPA 6020	DS1	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	3
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40173139002	MW-28	EPA 8015B Modified	ALD	1
		EPA 6020	DS1	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	3
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40173139003	MW-26	EPA 8015B Modified	ALD	1
		EPA 6020	DS1	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	3
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40173139004	MW-27	EPA 8015B Modified	ALD	1
		EPA 6020	DS1	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	3
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40173139005	QA/QC 1	EPA 8015B Modified	ALD	1
		EPA 6020	DS1	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	3
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40173139006	PZ-27	EPA 8015B Modified	ALD	1
		EPA 6020	DS1	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	3
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40173139007	EQUIPMENT BLANK 1	EPA 8260	LAP	9

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SAMPLE ANALYTE COUNT

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40173139

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40173139008	TRIP BLANK	EPA 8260	LAP	9

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

Sample: PZ-23 **Lab ID: 40173139001** Collected: 07/26/18 08:45 Received: 07/26/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	3330	ug/L	56.0	27.4	20		07/31/18 11:11	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	615	ug/L	368	111	1	08/03/18 07:25	08/07/18 10:26	7439-89-6	
Manganese, Dissolved	92.6	ug/L	9.0	2.7	1	08/03/18 07:25	08/07/18 10:26	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	763	ug/L	8.2	2.5	10		07/27/18 16:53	71-43-2	
Ethylbenzene	56.6	ug/L	7.3	2.2	10		07/27/18 16:53	100-41-4	
Naphthalene	863	ug/L	39.2	11.8	10		07/27/18 16:53	91-20-3	
Toluene	1.8J	ug/L	5.7	1.7	10		07/27/18 16:53	108-88-3	
m&p-Xylene	10.1J	ug/L	15.5	4.7	10		07/27/18 16:53	179601-23-1	
o-Xylene	11.0	ug/L	8.7	2.6	10		07/27/18 16:53	95-47-6	
Surrogates									
Dibromofluoromethane (S)	115	%	70-130		10		07/27/18 16:53	1868-53-7	
Toluene-d8 (S)	85	%	70-130		10		07/27/18 16:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		10		07/27/18 16:53	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		07/26/18 23:09	14797-55-8	
Nitrite as N	<0.040	mg/L	0.15	0.040	1		07/26/18 23:09	14797-65-0	
Nitrogen, NO2 plus NO3	<0.12	mg/L	0.38	0.12	1		07/26/18 23:09		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	<1.0	mg/L	3.0	1.0	1		07/26/18 23:09	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	218	mg/L	23.5	7.0	1		07/30/18 10:57		

Sample: MW-28 **Lab ID: 40173139002** Collected: 07/26/18 09:36 Received: 07/26/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	2500	ug/L	56.0	27.4	20		07/31/18 11:18	74-82-8	M1
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	1150	ug/L	368	111	1	08/03/18 07:25	08/07/18 09:59	7439-89-6	
Manganese, Dissolved	290	ug/L	9.0	2.7	1	08/03/18 07:25	08/07/18 09:59	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	0.82	0.25	1		07/27/18 13:08	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/27/18 13:08	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-28 Lab ID: 40173139002 Collected: 07/26/18 09:36 Received: 07/26/18 13:35 Matrix: Water									
8260 MSV UST Analytical Method: EPA 8260									
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/27/18 13:08	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/27/18 13:08	108-88-3	
m&p-Xylene	<0.47	ug/L	1.6	0.47	1		07/27/18 13:08	179601-23-1	
o-Xylene	<0.26	ug/L	0.87	0.26	1		07/27/18 13:08	95-47-6	
Surrogates									
Dibromofluoromethane (S)	118	%	70-130		1		07/27/18 13:08	1868-53-7	
Toluene-d8 (S)	83	%	70-130		1		07/27/18 13:08	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		07/27/18 13:08	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		07/26/18 23:23	14797-55-8	
Nitrite as N	<0.20	mg/L	0.75	0.20	5		07/27/18 13:32	14797-65-0	D3,M0
Nitrogen, NO2 plus NO3	<0.58	mg/L	1.9	0.58	5		07/27/18 13:32		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	4.3	mg/L	3.0	1.0	1		07/26/18 23:23	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	202	mg/L	23.5	7.0	1		07/30/18 10:58		

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-26 Lab ID: 40173139003 Collected: 07/26/18 10:48 Received: 07/26/18 13:35 Matrix: Water									
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	3320	ug/L	56.0	27.4	20		07/31/18 10:29	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	898	ug/L	368	111	1	08/03/18 07:25	08/07/18 10:40	7439-89-6	
Manganese, Dissolved	151	ug/L	9.0	2.7	1	08/03/18 07:25	08/07/18 10:40	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	9.6	ug/L	0.82	0.25	1		07/27/18 15:45	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/27/18 15:45	100-41-4	
Naphthalene	2.2J	ug/L	3.9	1.2	1		07/27/18 15:45	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/27/18 15:45	108-88-3	
m&p-Xylene	<0.47	ug/L	1.6	0.47	1		07/27/18 15:45	179601-23-1	
o-Xylene	0.34J	ug/L	0.87	0.26	1		07/27/18 15:45	95-47-6	
Surrogates									
Dibromofluoromethane (S)	116	%	70-130		1		07/27/18 15:45	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		07/27/18 15:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		07/27/18 15:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

Sample: MW-26 **Lab ID: 40173139003** Collected: 07/26/18 10:48 Received: 07/26/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		07/27/18 00:03	14797-55-8	
Nitrite as N	<0.040	mg/L	0.15	0.040	1		07/27/18 00:03	14797-65-0	
Nitrogen, NO ₂ plus NO ₃	<0.12	mg/L	0.38	0.12	1		07/27/18 00:03		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	12.7	mg/L	3.0	1.0	1		07/27/18 00:03	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃	315	mg/L	23.5	7.0	1		07/30/18 10:58		

Sample: MW-27 **Lab ID: 40173139004** Collected: 07/26/18 11:52 Received: 07/26/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	2650	ug/L	56.0	27.4	20		07/31/18 10:36	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	776	ug/L	368	111	1	08/03/18 07:25	08/07/18 10:47	7439-89-6	
Manganese, Dissolved	105	ug/L	9.0	2.7	1	08/03/18 07:25	08/07/18 10:47	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	458	ug/L	4.1	1.2	5		07/27/18 17:15	71-43-2	
Ethylbenzene	64.9	ug/L	3.6	1.1	5		07/27/18 17:15	100-41-4	
Naphthalene	671	ug/L	19.6	5.9	5		07/27/18 17:15	91-20-3	
Toluene	1.5J	ug/L	2.9	0.86	5		07/27/18 17:15	108-88-3	
m&p-Xylene	7.2J	ug/L	7.8	2.3	5		07/27/18 17:15	179601-23-1	
o-Xylene	10.1	ug/L	4.4	1.3	5		07/27/18 17:15	95-47-6	
Surrogates									
Dibromofluoromethane (S)	115	%	70-130		5		07/27/18 17:15	1868-53-7	
Toluene-d8 (S)	85	%	70-130		5		07/27/18 17:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		5		07/27/18 17:15	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		07/27/18 00:16	14797-55-8	
Nitrite as N	<0.040	mg/L	0.15	0.040	1		07/27/18 00:16	14797-65-0	
Nitrogen, NO ₂ plus NO ₃	<0.12	mg/L	0.38	0.12	1		07/27/18 00:16		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	<1.0	mg/L	3.0	1.0	1		07/27/18 00:16	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃	220	mg/L	47.0	14.1	2		07/30/18 10:59		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

Sample: QA/QC 1 Lab ID: 40173139005 Collected: 07/26/18 11:57 Received: 07/26/18 13:35 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	2670	ug/L	56.0	27.4	20		07/31/18 10:43	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	799	ug/L	368	111	1	08/03/18 07:25	08/07/18 11:07	7439-89-6	
Manganese, Dissolved	106	ug/L	9.0	2.7	1	08/03/18 07:25	08/07/18 11:07	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	450	ug/L	4.1	1.2	5		07/27/18 17:38	71-43-2	
Ethylbenzene	62.9	ug/L	3.6	1.1	5		07/27/18 17:38	100-41-4	
Naphthalene	660	ug/L	19.6	5.9	5		07/27/18 17:38	91-20-3	
Toluene	1.5J	ug/L	2.9	0.86	5		07/27/18 17:38	108-88-3	
m&p-Xylene	6.0J	ug/L	7.8	2.3	5		07/27/18 17:38	179601-23-1	
o-Xylene	10.0	ug/L	4.4	1.3	5		07/27/18 17:38	95-47-6	
Surrogates									
Dibromofluoromethane (S)	116	%	70-130		5		07/27/18 17:38	1868-53-7	
Toluene-d8 (S)	85	%	70-130		5		07/27/18 17:38	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		5		07/27/18 17:38	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		07/27/18 01:10	14797-55-8	
Nitrite as N	<0.040	mg/L	0.15	0.040	1		07/27/18 01:10	14797-65-0	
Nitrogen, NO2 plus NO3	<0.12	mg/L	0.38	0.12	1		07/27/18 01:10		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	<1.0	mg/L	3.0	1.0	1		07/27/18 01:10	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	223	mg/L	23.5	7.0	1		07/30/18 12:25		

Sample: PZ-27 Lab ID: 40173139006 Collected: 07/26/18 12:33 Received: 07/26/18 13:35 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	2730	ug/L	70.0	34.2	25		07/31/18 10:50	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	1060	ug/L	368	111	1	08/03/18 07:25	08/07/18 11:14	7439-89-6	
Manganese, Dissolved	105	ug/L	9.0	2.7	1	08/03/18 07:25	08/07/18 11:14	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	406	ug/L	4.1	1.2	5		07/27/18 18:00	71-43-2	
Ethylbenzene	37.6	ug/L	3.6	1.1	5		07/27/18 18:00	100-41-4	

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

Sample: **PZ-27** Lab ID: **40173139006** Collected: 07/26/18 12:33 Received: 07/26/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Naphthalene	535	ug/L	19.6	5.9	5		07/27/18 18:00	91-20-3	
Toluene	1.7J	ug/L	2.9	0.86	5		07/27/18 18:00	108-88-3	
m&p-Xylene	7.3J	ug/L	7.8	2.3	5		07/27/18 18:00	179601-23-1	
o-Xylene	12.0	ug/L	4.4	1.3	5		07/27/18 18:00	95-47-6	
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		5		07/27/18 18:00	1868-53-7	
Toluene-d8 (S)	85	%	70-130		5		07/27/18 18:00	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		5		07/27/18 18:00	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		07/27/18 01:23	14797-55-8	
Nitrite as N	<0.040	mg/L	0.15	0.040	1		07/27/18 01:23	14797-65-0	
Nitrogen, NO2 plus NO3	<0.12	mg/L	0.38	0.12	1		07/27/18 01:23		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	<1.0	mg/L	3.0	1.0	1		07/27/18 01:23	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	224	mg/L	23.5	7.0	1		07/30/18 12:25		

Sample: **EQUIPMENT BLANK 1** Lab ID: **40173139007** Collected: 07/26/18 12:47 Received: 07/26/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	0.82	0.25	1		07/27/18 12:23	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/27/18 12:23	100-41-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/27/18 12:23	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/27/18 12:23	108-88-3	
m&p-Xylene	<0.47	ug/L	1.6	0.47	1		07/27/18 12:23	179601-23-1	
o-Xylene	<0.26	ug/L	0.87	0.26	1		07/27/18 12:23	95-47-6	
Surrogates									
Dibromofluoromethane (S)	113	%	70-130		1		07/27/18 12:23	1868-53-7	
Toluene-d8 (S)	86	%	70-130		1		07/27/18 12:23	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		07/27/18 12:23	460-00-4	

Sample: **TRIP BLANK** Lab ID: **40173139008** Collected: 07/26/18 00:00 Received: 07/26/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	0.82	0.25	1		07/27/18 12:45	71-43-2	

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

Sample: TRIP BLANK **Lab ID: 40173139008** Collected: 07/26/18 00:00 Received: 07/26/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260							
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/27/18 12:45	100-41-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/27/18 12:45	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/27/18 12:45	108-88-3	
m&p-Xylene	<0.47	ug/L	1.6	0.47	1		07/27/18 12:45	179601-23-1	
o-Xylene	<0.26	ug/L	0.87	0.26	1		07/27/18 12:45	95-47-6	
Surrogates									
Dibromofluoromethane (S)	117	%	70-130		1		07/27/18 12:45	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		07/27/18 12:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		07/27/18 12:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40173139

QC Batch: 295888 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004, 40173139005, 40173139006

METHOD BLANK: 1729241 Matrix: Water
Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004, 40173139005, 40173139006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<1.4	2.8	07/31/18 08:20	

LABORATORY CONTROL SAMPLE & LCSD: 1729242 1729243

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	28.6	28.9	100	101	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1729244 1729245

Parameter	Units	40173139002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	2500	571	571	4250	4370	307	328	44-167	3	20	M1

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40173139

QC Batch: 296284 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004, 40173139005, 40173139006

METHOD BLANK: 1731093 Matrix: Water
Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004, 40173139005, 40173139006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<111	368	08/07/18 09:45	
Manganese, Dissolved	ug/L	<2.7	9.0	08/07/18 09:45	

LABORATORY CONTROL SAMPLE: 1731094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	5030	101	80-120	
Manganese, Dissolved	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1731095 1731096

Parameter	Units	40173139002		1731095		1731096		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Iron, Dissolved	ug/L	1150	5000	5000	6020	6010	97	97	75-125	0	20	
Manganese, Dissolved	ug/L	290	500	500	770	775	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

QC Batch: 295666 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
 Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004, 40173139005, 40173139006, 40173139007, 40173139008

METHOD BLANK: 1728187 Matrix: Water
 Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004, 40173139005, 40173139006, 40173139007, 40173139008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.25	0.82	07/27/18 10:08	
Ethylbenzene	ug/L	<0.22	0.73	07/27/18 10:08	
m&p-Xylene	ug/L	<0.47	1.6	07/27/18 10:08	
Naphthalene	ug/L	<1.2	3.9	07/27/18 10:08	
o-Xylene	ug/L	<0.26	0.87	07/27/18 10:08	
Toluene	ug/L	<0.17	0.57	07/27/18 10:08	
4-Bromofluorobenzene (S)	%	97	70-130	07/27/18 10:08	
Dibromofluoromethane (S)	%	112	70-130	07/27/18 10:08	
Toluene-d8 (S)	%	89	70-130	07/27/18 10:08	

LABORATORY CONTROL SAMPLE: 1728188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	64.5	129	69-137	
Ethylbenzene	ug/L	50	52.9	106	86-127	
m&p-Xylene	ug/L	100	109	109	70-131	
o-Xylene	ug/L	50	55.1	110	70-130	
Toluene	ug/L	50	49.2	98	84-124	
4-Bromofluorobenzene (S)	%			107	70-130	
Dibromofluoromethane (S)	%			110	70-130	
Toluene-d8 (S)	%			87	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728189 1728190

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40173139002 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
Benzene	ug/L	<0.25	50	50	68.7	64.5	137	129	66-143	6	20
Ethylbenzene	ug/L	<0.22	50	50	53.8	52.6	108	105	81-136	2	20
m&p-Xylene	ug/L	<0.47	100	100	110	107	110	107	70-135	3	20
o-Xylene	ug/L	<0.26	50	50	54.8	53.7	110	107	70-132	2	20
Toluene	ug/L	<0.17	50	50	53.2	52.3	106	105	81-130	2	20
4-Bromofluorobenzene (S)	%						102	103	70-130		
Dibromofluoromethane (S)	%						112	107	70-130		
Toluene-d8 (S)	%						89	90	70-130		

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

QC Batch: 295682 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004, 40173139005, 40173139006

METHOD BLANK: 1728216 Matrix: Water
 Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004, 40173139005, 40173139006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.075	0.22	07/26/18 20:02	
Nitrite as N	mg/L	<0.040	0.15	07/26/18 20:02	
Nitrogen, NO2 plus NO3	mg/L	<0.12	0.38	07/26/18 20:02	
Sulfate	mg/L	<1.0	3.0	07/26/18 20:02	

LABORATORY CONTROL SAMPLE: 1728217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.5	1.5	97	90-110	
Nitrite as N	mg/L	1	0.95	95	90-110	
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	96		
Sulfate	mg/L	20	18.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728218 1728219

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Qual
		40173139002 Result	Spike Conc.	Spike Conc.	MS Result						
Nitrate as N	mg/L	<0.075	1.5	1.5	1.5	1.5	101	102	90-110	1	15
Nitrite as N	mg/L	<0.20	5	5	4.2	4.2	84	83	90-110	1	15 M0
Nitrogen, NO2 plus NO3	mg/L	<0.58	12.5	12.5	12.0	12.0	96	96		1	15
Sulfate	mg/L	4.3	20	20	25.3	25.4	105	106	90-110	1	15

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40173139

QC Batch: 295741 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004

METHOD BLANK: 1728692 Matrix: Water
Associated Lab Samples: 40173139001, 40173139002, 40173139003, 40173139004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.0	23.5	07/30/18 10:42	

LABORATORY CONTROL SAMPLE: 1728693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728694 1728695

Parameter	Units	40173089002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	90.9	100	100	147	144	56	53	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728696 1728697

Parameter	Units	40173139004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	220	200	200	413	414	97	97	90-110	0	20	

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

QC Batch: 295745 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40173139005, 40173139006

METHOD BLANK: 1728719 Matrix: Water

Associated Lab Samples: 40173139005, 40173139006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.0	23.5	07/30/18 12:39	

LABORATORY CONTROL SAMPLE: 1728720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	103	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728721 1728722

Parameter	Units	1728721		1728722		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40173165001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO ₃	mg/L	952	2000	2000	2700	2780	87	91	90-110	3	20 M0

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QUALIFIERS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

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.

ANALYTE QUALIFIERS

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

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40173139

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40173139001	PZ-23	EPA 8015B Modified	295888		
40173139002	MW-28	EPA 8015B Modified	295888		
40173139003	MW-26	EPA 8015B Modified	295888		
40173139004	MW-27	EPA 8015B Modified	295888		
40173139005	QA/QC 1	EPA 8015B Modified	295888		
40173139006	PZ-27	EPA 8015B Modified	295888		
40173139001	PZ-23	EPA 3010	296284	EPA 6020	296342
40173139002	MW-28	EPA 3010	296284	EPA 6020	296342
40173139003	MW-26	EPA 3010	296284	EPA 6020	296342
40173139004	MW-27	EPA 3010	296284	EPA 6020	296342
40173139005	QA/QC 1	EPA 3010	296284	EPA 6020	296342
40173139006	PZ-27	EPA 3010	296284	EPA 6020	296342
40173139001	PZ-23	EPA 8260	295666		
40173139002	MW-28	EPA 8260	295666		
40173139003	MW-26	EPA 8260	295666		
40173139004	MW-27	EPA 8260	295666		
40173139005	QA/QC 1	EPA 8260	295666		
40173139006	PZ-27	EPA 8260	295666		
40173139007	EQUIPMENT BLANK 1	EPA 8260	295666		
40173139008	TRIP BLANK	EPA 8260	295666		
40173139001	PZ-23	EPA 300.0	295682		
40173139002	MW-28	EPA 300.0	295682		
40173139003	MW-26	EPA 300.0	295682		
40173139004	MW-27	EPA 300.0	295682		
40173139005	QA/QC 1	EPA 300.0	295682		
40173139006	PZ-27	EPA 300.0	295682		
40173139001	PZ-23	EPA 300.0	295682		
40173139002	MW-28	EPA 300.0	295682		
40173139003	MW-26	EPA 300.0	295682		
40173139004	MW-27	EPA 300.0	295682		
40173139005	QA/QC 1	EPA 300.0	295682		
40173139006	PZ-27	EPA 300.0	295682		
40173139001	PZ-23	EPA 310.2	295741		
40173139002	MW-28	EPA 310.2	295741		
40173139003	MW-26	EPA 310.2	295741		
40173139004	MW-27	EPA 310.2	295741		
40173139005	QA/QC 1	EPA 310.2	295745		
40173139006	PZ-27	EPA 310.2	295745		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Client Name: WE Engines

Project # 40173139

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper: 050781 Lab Std #ID of preservation (if pH adjusted):


Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic					Vials					Jars		General		VOA Vials (>6mm) *			Volume (mL)											
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T		ZPLC	GN	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted				
001																																				2.5 / 5 / 10
002																																				2.5 / 5 / 10
003																																				2.5 / 5 / 10
004																																				2.5 / 5 / 10
005																																				2.5 / 5 / 10
006																																				2.5 / 5 / 10
007																																				2.5 / 5 / 10
008																																				2.5 / 5 / 10
009																																				2.5 / 5 / 10
010																																				2.5 / 5 / 10
011																																				2.5 / 5 / 10
012																																				2.5 / 5 / 10
013																																				2.5 / 5 / 10
014																																				2.5 / 5 / 10
015																																				2.5 / 5 / 10
016																																				2.5 / 5 / 10
017																																				2.5 / 5 / 10
018																																				2.5 / 5 / 10
019																																				2.5 / 5 / 10
020																																				2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN:
1 liter amber glass	1 liter amber glass HCL	125 ml amber glass H2SO4	120 ml amber glass unpres	100 ml amber glass unpres	500 ml amber glass H2SO4	250 ml clear glass unpres	1 liter plastic unpres	500 ml plastic HNO3	500 ml plastic NaOH, Znact	250 ml plastic unpres	250 ml plastic NaOH	250 ml plastic HNO3	250 ml plastic H2SO4	40 ml amber ascorbic	40 ml amber Na Thio	40 ml clear vial unpres	40 ml clear vial HCL	40 ml clear vial MeOH	40 ml clear vial DI	4 oz amber jar unpres	4 oz clear jar unpres	4 oz plastic jar unpres	120 ml plastic Na Thiosulfate	ziploc bag	

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: WE Energies Project #: **WO# : 40173139**
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 - TA **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: Red /Corr: _____
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
 Date: 7/26/18
 Initials: SSM

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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>402</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: BB Date: 7-27-18
2 d
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