



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

April 20, 2020

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 October 2019 Monitoring Well Sampling Results We Energies'
Appleton MGP Site, WDNR ERP Case #02-45-000042, FID #445033380**

Dear Ms. Borski:

We Energies received final analytical results for monitoring wells and piezometers for our October 2019 semi-annual 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@wecenergygroup.com if you have any questions or if further information may be required.

Sincerely,

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

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

Enclosures

Cc: Project File
B. Hennings, Ramboll



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

April 20, 2020

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

Subject: October 2019 Groundwater Sampling Results for Fox River Mills Properties

Dear Mr. Bornemann:

We Energies completed groundwater sampling at your property as part of routine semi-annual monitoring for the former manufactured gas plant (MGP) site located at 337 Water Street in Appleton, Wisconsin (Figure 1). The attached letter summarizes routine groundwater sampling activities that occurred in October 2019 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 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@wecenergygroup.com with any questions or if further information may be needed.

Sincerely,

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

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

Enclosures

Cc: Project File
J. Borski, WDNR
B. Hennings, Ramboll
Janet Smith, Heartland Properties, Inc.

Mr. Frank Dombrowski
Principal Environmental Consultant
WEC Business Services, LLC
333 W. Everett Street, A231
Milwaukee, WI 53203
(via email)

**October 2019 Sample Results Notification – Groundwater Results
Collected in October 2019**

***Appleton City (Coal Tar), aka Appleton MGP
337 Water Street, Appleton, Wisconsin
WDNR ERP Case #02-45-000042, FID #445033380***

April 20, 2020

Dear Mr. Dombrowski:

This sample results notification letter for the Appleton City former manufactured gas plant (MGP) site located at 337 Water Street in Appleton, Wisconsin (Figure 1) summarizes routine groundwater sampling activities that occurred in October 2019 located on the property occupied by the Fox River Mills Apartments (Figure 1). Free product (oily material) was measured in PZ-26 and PZ-28. Groundwater samples were collected from monitoring wells and piezometers PZ-23, MW-26, MW-27, PZ-27, and MW-28 in accordance with the groundwater monitoring plan.

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA

T 414-837-3607
F 414-837-3608
www.ramboll.com

Groundwater monitoring wells PZ-23, PZ-26, PZ-27, and PZ-28 are screened within the shallow bedrock approximately 20 to 25 feet below ground surface. Consistent with previous monitoring events, free product was observed in PZ-26 and PZ-28 (1.35 and 0.9 feet, respectively). Free product was not observed in any of the other wells. No attempt was made to recover free product during this sampling event. Groundwater analytical results (Table 1) collected from the remaining shallow bedrock wells are consistent with previous samples collected from these wells which indicate benzene and naphthalene in excess of the Wisconsin Department of Natural Resources (WDNR) enforcement standards (ES) in groundwater.

Ref. 75502

Groundwater monitoring wells MW-26, MW-27, and MW-28 are screened within the unlithified material above bedrock approximately 5 to 15 feet below ground surface. No free product was observed in any of these wells. Consistent with previous sampling events, groundwater analytical results indicate the presence of benzene, naphthalene, and iron in excess of the WDNR ES in groundwater.

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 (or the presence of free product in wells with previous groundwater exceedances) are a recent occurrence or pose an immediate risk to the health of the occupants in the apartment building.

Sincerely,



Brian G. Hennings, PG
Managing Hydrogeologist

D +1 414 837 3524

brian.hennings@ramboll.com

Attachments: Figure 1 – Site Features
Table 1 – Summary of Groundwater Results – Heartland-Appleton Fox River Mills
Attachment A – Laboratory Report

FIGURES



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

0 37.5 75
Feet

SITE FEATURES

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

FIGURE 1

TABLES

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

October 2019 Sample Results Notification
 We Energies, Appleton City (Coal Tar), aka Appleton MGP
 WDNR ERP Case #02-45-000042
 FID #445033380

Sample Location	Sample Date	VOC						MNA						
		Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes, m + p	Xylene, o	Total Xylenes ¹	Alkalinity, Total as CaCO3	Iron, Dissolved	Manganese, Dissolved	Methane	Nitrogen, NO2 plus NO3	Sulfate
Reporting Units:		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L
Wisconsin PAL:		<u>0.5</u>	140	<u>10</u>	<u>160</u>	NS	NS	400	NS	<u>0.15</u>	<u>0.06</u>	NS	<u>2</u>	<u>125</u>
Wisconsin ES:		5	700	100	800	NS	NS	2,000	NS	0.3	0.3	NS	10	250
MW-26	10/30/2019	<u>29.1</u>	0.25 J	<u>13.6</u>	<0.17 U	0.91 J	1.8	2.71	323	<u>0.969</u>	<u>0.214</u>	3,400	<0.095 U	5.2
MW-27	10/30/2019	437	78.9	853	1.7 J	7.7 J	10.7	18.7	225	<u>0.674</u>	<u>0.107</u>	2,600	<0.095 U	1.2 J
MW-28	10/30/2019	<0.25 U	<0.22 U	<1.2 U	<0.17 U	<0.47 U	<0.26 U	<0.73 U	253	<u>1.71</u>	<u>0.297</u>	4,500	<0.095 U	34.2
PZ-23	10/30/2019	563	39.8	631	<1.7 U	5 J	7.4 J	12.4 J	229	<u>0.391</u>	<u>0.0639</u>	3,050	<0.095 U	1.2 J
PZ-23-Dup	10/30/2019	<u>510</u>	37	644	1.2 J	3.1 J	6.1	9.2	230	<u>0.41</u>	<u>0.0666</u>	4,890	<0.095 U	1.4 J
PZ-27	10/30/2019	328	33.3	521	1.4 J	6.6 J	9.6	16.2	217	<u>0.671</u>	<u>0.0846</u>	1,270	<0.095 U	0.78 J

[O:CMD 4/3/20,C:MGP 4/6/20,QA:KLT 4/7/20]

NOTES:

Underlined concentration that attains or exceeds WDNR PAL

Bold concentration that attains or exceeds WDNR ES

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020.

Results that attain or exceed the PAL or ES are considered to be in exceedance.

< = Concentration is less than reported limit

µg/L = micrograms per liter

DUP = Quality Control Field Duplicate Sample

ES = Enforcement Standard

J = Estimated concentration

mg/L = milligrams per liter

MGP = manufactured gas plant

MNA = Monitored Natural Attenuation

NS = No Standard

PAL = Preventive Action Limit

U = Parameter not detected above the Limit of Detection indicated

VOC = Volatile Organic Compound

1. Total Xylenes were calculated by Ramboll as follows:

- a. Where no detections were observed, the sum of the reporting limits is presented.
- b. Where detections were observed, only the detected results were added together for the total summation.
- c. Analytes used for the calculation are Xylene-o and Xylene-m+p.

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

ATTACHMENT A

November 15, 2019

Frank Dombrowski
WE Energies
333 W. Everett St
Milwaukee, WI 53203

RE: Project: APPLETON FORMER MGP
Pace Project No.: 40198448

Dear Frank Dombrowski:

Enclosed are the analytical results for sample(s) received by the laboratory on November 02, 2019. 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: Alex Bartelme, OBG
NRT Data, OBG
Brian Hennings, Ramboll
WE Energies Lab Reports, WE Energies



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: APPLETON FORMER MGP

Pace Project No.: 40198448

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: APPLETON FORMER MGP
Pace Project No.: 40198448

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40198448001	MW-26	Water	10/30/19 12:11	11/02/19 08:00
40198448002	PZ-23	Water	10/30/19 12:55	11/02/19 08:00
40198448003	DUP01	Water	10/30/19 13:00	11/02/19 08:00
40198448004	MW28	Water	10/30/19 13:40	11/02/19 08:00
40198448005	PZ-27	Water	10/30/19 14:33	11/02/19 08:00
40198448006	MW-27	Water	10/30/19 15:16	11/02/19 08:00

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SAMPLE ANALYTE COUNT

Project: APPLETON FORMER MGP

Pace Project No.: 40198448

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40198448001	MW-26	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40198448002	PZ-23	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40198448003	DUP01	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40198448004	MW28	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40198448005	PZ-27	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40198448006	MW-27	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	2
		EPA 8260	LAP	9
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APPLETON FORMER MGP

Pace Project No.: 40198448

Sample: MW-26 **Lab ID: 40198448001** Collected: 10/30/19 12:11 Received: 11/02/19 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	3400	ug/L	56.0	13.3	20		11/07/19 13:16	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	969	ug/L	250	58.0	1	11/06/19 06:50	11/12/19 02:34	7439-89-6	
Manganese, Dissolved	214	ug/L	4.0	1.2	1	11/06/19 06:50	11/12/19 02:34	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	29.1	ug/L	1.0	0.25	1		11/06/19 16:32	71-43-2	
Ethylbenzene	0.25J	ug/L	1.0	0.22	1		11/06/19 16:32	100-41-4	
Naphthalene	13.6	ug/L	5.0	1.2	1		11/06/19 16:32	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		11/06/19 16:32	108-88-3	
m&p-Xylene	0.91J	ug/L	2.0	0.47	1		11/06/19 16:32	179601-23-1	
o-Xylene	1.8	ug/L	1.0	0.26	1		11/06/19 16:32	95-47-6	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		11/06/19 16:32	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/06/19 16:32	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		11/06/19 16:32	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	5.2	mg/L	2.0	0.44	1		11/11/19 23:13	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃	323	mg/L	47.0	14.1	2		11/12/19 13:09		
353.2 Nitrogen, NO₂/NO₃ pres. Analytical Method: EPA 353.2									
Nitrogen, NO ₂ plus NO ₃	<0.095	mg/L	0.25	0.095	1		11/07/19 13:29		P4

Sample: PZ-23 **Lab ID: 40198448002** Collected: 10/30/19 12:55 Received: 11/02/19 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	3050	ug/L	70.0	16.6	25		11/07/19 11:42	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	391	ug/L	250	58.0	1	11/06/19 06:50	11/12/19 03:01	7439-89-6	
Manganese, Dissolved	63.9	ug/L	4.0	1.2	1	11/06/19 06:50	11/12/19 03:01	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	563	ug/L	10.0	2.5	10		11/06/19 10:42	71-43-2	
Ethylbenzene	39.8	ug/L	10.0	2.2	10		11/06/19 10:42	100-41-4	
Naphthalene	631	ug/L	50.0	11.8	10		11/06/19 10:42	91-20-3	
Toluene	<1.7	ug/L	50.0	1.7	10		11/06/19 10:42	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APPLETON FORMER MGP

Pace Project No.: 40198448

Sample: PZ-23 Lab ID: 40198448002 Collected: 10/30/19 12:55 Received: 11/02/19 08:00 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
m&p-Xylene	5.0J	ug/L	20.0	4.7	10		11/06/19 10:42	179601-23-1	
o-Xylene	7.4J	ug/L	10.0	2.6	10		11/06/19 10:42	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		10		11/06/19 10:42	1868-53-7	
Toluene-d8 (S)	98	%	70-130		10		11/06/19 10:42	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		10		11/06/19 10:42	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	1.2J	mg/L	2.0	0.44	1		11/12/19 00:10	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	229	mg/L	23.5	7.0	1		11/12/19 13:09		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/07/19 13:29		P4

Sample: DUP01 Lab ID: 40198448003 Collected: 10/30/19 13:00 Received: 11/02/19 08:00 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	4890	ug/L	70.0	16.6	25		11/07/19 12:48	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	410	ug/L	250	58.0	1	11/06/19 06:50	11/12/19 03:08	7439-89-6	
Manganese, Dissolved	66.6	ug/L	4.0	1.2	1	11/06/19 06:50	11/12/19 03:08	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	510	ug/L	4.0	0.99	4		11/06/19 12:31	71-43-2	
Ethylbenzene	37.0	ug/L	4.0	0.87	4		11/06/19 12:31	100-41-4	
Naphthalene	644	ug/L	20.0	4.7	4		11/06/19 12:31	91-20-3	
Toluene	1.2J	ug/L	20.0	0.69	4		11/06/19 12:31	108-88-3	
m&p-Xylene	3.1J	ug/L	8.0	1.9	4		11/06/19 12:31	179601-23-1	
o-Xylene	6.1	ug/L	4.0	1.0	4		11/06/19 12:31	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		4		11/06/19 12:31	1868-53-7	
Toluene-d8 (S)	100	%	70-130		4		11/06/19 12:31	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		4		11/06/19 12:31	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	1.4J	mg/L	2.0	0.44	1		11/12/19 00:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APPLETON FORMER MGP

Pace Project No.: 40198448

Sample: DUP01 **Lab ID: 40198448003** Collected: 10/30/19 13:00 Received: 11/02/19 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	230	mg/L	23.5	7.0	1		11/12/19 13:12		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/07/19 13:30		P4

Sample: MW28 **Lab ID: 40198448004** Collected: 10/30/19 13:40 Received: 11/02/19 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	4500	ug/L	70.0	16.6	25		11/07/19 12:55	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	1710	ug/L	250	58.0	1	11/06/19 06:50	11/12/19 03:15	7439-89-6	
Manganese, Dissolved	297	ug/L	4.0	1.2	1	11/06/19 06:50	11/12/19 03:15	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/06/19 15:04	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/06/19 15:04	100-41-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/06/19 15:04	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		11/06/19 15:04	108-88-3	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/06/19 15:04	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/06/19 15:04	95-47-6	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		1		11/06/19 15:04	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/06/19 15:04	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		11/06/19 15:04	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	34.2	mg/L	10.0	2.2	5		11/12/19 17:48	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	253	mg/L	23.5	7.0	1		11/12/19 13:13		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/07/19 13:31		P4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APPLETON FORMER MGP
Pace Project No.: 40198448

Sample: PZ-27 **Lab ID: 40198448005** Collected: 10/30/19 14:33 Received: 11/02/19 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	1270	ug/L	70.0	16.6	25		11/07/19 13:02	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	671	ug/L	250	58.0	1	11/06/19 06:50	11/12/19 03:22	7439-89-6	
Manganese, Dissolved	84.6	ug/L	4.0	1.2	1	11/06/19 06:50	11/12/19 03:22	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	328	ug/L	5.0	1.2	5		11/06/19 10:20	71-43-2	
Ethylbenzene	33.3	ug/L	5.0	1.1	5		11/06/19 10:20	100-41-4	
Naphthalene	521	ug/L	25.0	5.9	5		11/06/19 10:20	91-20-3	
Toluene	1.4J	ug/L	25.0	0.86	5		11/06/19 10:20	108-88-3	
m&p-Xylene	6.6J	ug/L	10.0	2.3	5		11/06/19 10:20	179601-23-1	
o-Xylene	9.6	ug/L	5.0	1.3	5		11/06/19 10:20	95-47-6	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		5		11/06/19 10:20	1868-53-7	
Toluene-d8 (S)	101	%	70-130		5		11/06/19 10:20	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		5		11/06/19 10:20	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	0.78J	mg/L	2.0	0.44	1		11/12/19 00:54	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃	217	mg/L	23.5	7.0	1		11/12/19 13:13		
353.2 Nitrogen, NO₂/NO₃ pres. Analytical Method: EPA 353.2									
Nitrogen, NO ₂ plus NO ₃	<0.095	mg/L	0.25	0.095	1		11/07/19 13:31		P4

Sample: MW-27 **Lab ID: 40198448006** Collected: 10/30/19 15:16 Received: 11/02/19 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	2600	ug/L	112	26.6	40		11/07/19 13:09	74-82-8	M1
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	674	ug/L	250	58.0	1	11/06/19 06:50	11/12/19 02:07	7439-89-6	
Manganese, Dissolved	107	ug/L	4.0	1.2	1	11/06/19 06:50	11/12/19 02:07	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	437	ug/L	5.0	1.2	5		11/06/19 09:58	71-43-2	
Ethylbenzene	78.9	ug/L	5.0	1.1	5		11/06/19 09:58	100-41-4	
Naphthalene	853	ug/L	25.0	5.9	5		11/06/19 09:58	91-20-3	
Toluene	1.7J	ug/L	25.0	0.86	5		11/06/19 09:58	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APPLETON FORMER MGP

Pace Project No.: 40198448

Sample: MW-27 **Lab ID: 40198448006** Collected: 10/30/19 15:16 Received: 11/02/19 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
m&p-Xylene	7.7J	ug/L	10.0	2.3	5		11/06/19 09:58	179601-23-1	
o-Xylene	10.7	ug/L	5.0	1.3	5		11/06/19 09:58	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		5		11/06/19 09:58	1868-53-7	
Toluene-d8 (S)	101	%	70-130		5		11/06/19 09:58	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		5		11/06/19 09:58	460-00-4	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Chloride	68.6	mg/L	10.0	2.2	5		11/12/19 18:02	16887-00-6	
Sulfate	1.2J	mg/L	2.0	0.44	1		11/12/19 01:08	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	225	mg/L	47.0	14.1	2		11/12/19 13:14		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/07/19 13:32		P4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APPLETON FORMER MGP
Pace Project No.: 40198448

QC Batch: 339949 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

METHOD BLANK: 1974069 Matrix: Water
Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.66	2.8	11/07/19 08:03	

LABORATORY CONTROL SAMPLE & LCSD: 1974070 1974071

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	29.4	30.2	103	106	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1974072 1974073

Parameter	Units	40198448006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	2600	1140	1140	4570	4450	172	162	77-122	3	20	M1

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QUALITY CONTROL DATA

Project: APPLETON FORMER MGP

Pace Project No.: 40198448

QC Batch: 339778

Analysis Method: EPA 6020

QC Batch Method: EPA 3010

Analysis Description: 6020 MET Dissolved

Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

METHOD BLANK: 1973119

Matrix: Water

Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<58.0	250	11/11/19 16:10	
Manganese, Dissolved	ug/L	<1.2	4.0	11/11/19 16:10	

LABORATORY CONTROL SAMPLE: 1973120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	5040	101	80-120	
Manganese, Dissolved	ug/L	500	490	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1973121 1973122

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40198448006 Result	Spike Conc.	Spike Conc.	MS Result						
Iron, Dissolved	ug/L	674	5000	5000	5680	5620	100	99	75-125	1	20
Manganese, Dissolved	ug/L	107	500	500	599	596	98	98	75-125	1	20

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QUALITY CONTROL DATA

Project: APPLETON FORMER MGP
Pace Project No.: 40198448

QC Batch: 339601 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

METHOD BLANK: 1972305 Matrix: Water
Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.25	1.0	11/06/19 08:09	
Ethylbenzene	ug/L	<0.22	1.0	11/06/19 08:09	
m&p-Xylene	ug/L	<0.47	2.0	11/06/19 08:09	
Naphthalene	ug/L	<1.2	5.0	11/06/19 08:09	
o-Xylene	ug/L	<0.26	1.0	11/06/19 08:09	
Toluene	ug/L	<0.17	5.0	11/06/19 08:09	
4-Bromofluorobenzene (S)	%	91	70-130	11/06/19 08:09	
Dibromofluoromethane (S)	%	106	70-130	11/06/19 08:09	
Toluene-d8 (S)	%	99	70-130	11/06/19 08:09	

LABORATORY CONTROL SAMPLE: 1972306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.4	101	70-130	
Ethylbenzene	ug/L	50	52.3	105	80-124	
m&p-Xylene	ug/L	100	106	106	70-130	
o-Xylene	ug/L	50	53.0	106	70-130	
Toluene	ug/L	50	50.7	101	80-126	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1972307 1972308

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40198448006 Result	Spike Conc.	Spike Conc.	Conc.								
Benzene	ug/L	437	250	250	704	706	107	107	70-130	0	20		
Ethylbenzene	ug/L	78.9	250	250	369	367	116	115	80-125	1	20		
m&p-Xylene	ug/L	7.7J	500	500	571	561	113	111	70-130	2	20		
o-Xylene	ug/L	10.7	250	250	288	289	111	111	70-130	0	20		
Toluene	ug/L	1.7J	250	250	259	268	103	107	80-131	4	20		
4-Bromofluorobenzene (S)	%						102	100	70-130				
Dibromofluoromethane (S)	%						100	97	70-130				
Toluene-d8 (S)	%						100	99	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APPLETON FORMER MGP
Pace Project No.: 40198448

QC Batch: 340223 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

METHOD BLANK: 1975529 Matrix: Water
Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	11/11/19 21:04	
Sulfate	mg/L	<0.44	2.0	11/11/19 21:04	

LABORATORY CONTROL SAMPLE: 1975530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.2	106	90-110	
Sulfate	mg/L	20	21.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1975531 1975532

Parameter	Units	40198448006 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	68.6	100	176	174	107	105	90-110	1	15		
Sulfate	mg/L	1.2J	20	22.3	23.1	106	110	90-110	4	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1975533 1975534

Parameter	Units	40198647004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	19.4	20	37.0	44.4	88	125	90-110	18	15	M0, R1	
Sulfate	mg/L	6.5	20	24.6	32.6	91	130	90-110	28	15	M0, R1	

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QUALITY CONTROL DATA

Project: APPLETON FORMER MGP
Pace Project No.: 40198448

QC Batch: 340448 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

METHOD BLANK: 1976756 Matrix: Water
Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	11/12/19 13:08	

LABORATORY CONTROL SAMPLE: 1976757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1976758 1976759

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40198448006 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	225	200	200	411	420	93	97	90-110	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1976760 1976761

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40198547001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	682	500	500	1170	1190	98	101	90-110	1	20		

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QUALITY CONTROL DATA

Project: APPLETON FORMER MGP

Pace Project No.: 40198448

QC Batch: 339987 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
 Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

METHOD BLANK: 1974192 Matrix: Water
 Associated Lab Samples: 40198448001, 40198448002, 40198448003, 40198448004, 40198448005, 40198448006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	11/07/19 13:16	

LABORATORY CONTROL SAMPLE: 1974193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1974194 1974195

Parameter	Units	40198331012		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.4	2.4	94	96	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1974196 1974197

Parameter	Units	40198448006		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.4	2.4	97	97	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: APPLETON FORMER MGP

Pace Project No.: 40198448

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APPLETON FORMER MGP
Pace Project No.: 40198448

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40198448001	MW-26	EPA 8015B Modified	339949		
40198448002	PZ-23	EPA 8015B Modified	339949		
40198448003	DUP01	EPA 8015B Modified	339949		
40198448004	MW28	EPA 8015B Modified	339949		
40198448005	PZ-27	EPA 8015B Modified	339949		
40198448006	MW-27	EPA 8015B Modified	339949		
40198448001	MW-26	EPA 3010	339778	EPA 6020	339888
40198448002	PZ-23	EPA 3010	339778	EPA 6020	339888
40198448003	DUP01	EPA 3010	339778	EPA 6020	339888
40198448004	MW28	EPA 3010	339778	EPA 6020	339888
40198448005	PZ-27	EPA 3010	339778	EPA 6020	339888
40198448006	MW-27	EPA 3010	339778	EPA 6020	339888
40198448001	MW-26	EPA 8260	339601		
40198448002	PZ-23	EPA 8260	339601		
40198448003	DUP01	EPA 8260	339601		
40198448004	MW28	EPA 8260	339601		
40198448005	PZ-27	EPA 8260	339601		
40198448006	MW-27	EPA 8260	339601		
40198448001	MW-26	EPA 300.0	340223		
40198448002	PZ-23	EPA 300.0	340223		
40198448003	DUP01	EPA 300.0	340223		
40198448004	MW28	EPA 300.0	340223		
40198448005	PZ-27	EPA 300.0	340223		
40198448006	MW-27	EPA 300.0	340223		
40198448001	MW-26	EPA 310.2	340448		
40198448002	PZ-23	EPA 310.2	340448		
40198448003	DUP01	EPA 310.2	340448		
40198448004	MW28	EPA 310.2	340448		
40198448005	PZ-27	EPA 310.2	340448		
40198448006	MW-27	EPA 310.2	340448		
40198448001	MW-26	EPA 353.2	339987		
40198448002	PZ-23	EPA 353.2	339987		
40198448003	DUP01	EPA 353.2	339987		
40198448004	MW28	EPA 353.2	339987		
40198448005	PZ-27	EPA 353.2	339987		
40198448006	MW-27	EPA 353.2	339987		

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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.

40198448
67973-1019-001

Page 18 of 21

QC: ABB 10/31/19

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: <u>1</u> of <u>2</u>	
Company: We Energies		Report To: <u>David Kollakowsky</u>		Attention: Accounts Payable		REGULATORY AGENCY <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	
Address: 333 W. Everett St. Milwaukee, WI 53203		Copy To: <u>gdsdata@obg.com</u> Brian Hennings, OBG, Part of Ramboll		Company Name: We Energies Address: 333 W Everett St. Milwaukee WI			
Email To: <u>dave.kollakowsky@we-energies.com</u>		Purchase Order No.: 4700003357		Pace Quote Reference:		Site Location: <u>WI</u>	
Phone: _____ Fax: _____		Project Name: <u>Appleton Former MGP</u>		Pace Project Manager:			
Requested Due Date/TAT: <u>standard</u>		Project Number: <u>67973.200.038</u>		Pace Profile #:		STATE: <u>WI</u>	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.			
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test ↓	BTEX & Naphth 8260B	Fe & Manganese 6020			Sulfate, Alkalinity 310.2	Nitrogen (NH+N) 310.2	Methane 8015B
					DATE	TIME	DATE	TIME																		
1	MW-26		GW	G			10/31/19	1211	8	X	X	X			X	X	X	X	X	X			001	3		
2	P2-23							1255	1	X	X	X			X	X	X	X	X	X			002	3		
3	DL1P01							1300	1	X	X	X			X	X	X	X	X	X			003	3		
4	MW28							1340	1	X	X	X			X	X	X	X	X	X			0	3		
5	P2-27							1453	1	X	X	X			X	X	X	X	X	X			0	3		
6	MW-27							1516	24	X	X	X			X	X	X	X	X	X			MS/MSD 006	3		
7	MW-24							1627	3	X	X	X			X	X	X	X	X	X			007	3		
8	MW-19							1720	3	X	X	X			X	X	X	X	X	X			008	3		
9	EISO1		DI					1745	3	X	X	X			X	X	X	X	X	X			009	3		
10	MW-25		GW					10/31/19 0756	3	X	X	X			X	X	X	X	X	X			010	3		
11	MW-12R							0327	1	X	X	X			X	X	X	X	X	X			011	3		
12	MW-13R							0900	3	X	X	X			X	X	X	X	X	X			012	3		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2	<i>Alex Bartelme / OBG</i>	10/31/19	1745							
Copy: Alex Bartelme, OBG, Part of Ramboll	<i>CS Logistics</i>	11/2/19	08:00	<i>Quinn Regan Pace</i>	11/2/19	08:00	REF	Y	Y	Y

*Custody = 67973-001
Seals = 67973-002*

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Alex Bartelme</i>					
SIGNATURE of SAMPLER: <i>Alex Bartelme</i>					

PALE COURIER PICKUP

CHAIN-OF-CUSTODY / Analytical Request Document

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

40198448

67973-1019-001

QC: ABB 10/31/19

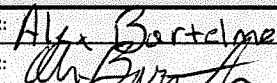
Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:										
Company: We Energies		Report To: David Kollakowky		Attention: Accounts Payable										
Address: 333 W. Everett St. Milwaukee, WI 53203		Copy To: gdsdata@obg.com Brian Hennings, OBG, Part of Ramboll		Company Name: We Energies										
Email To: dave.kollakowsky@we-energies.com		Purchase Order No.: 4700003357		Address: 333 W Everett St. Milwaukee WI										
Phone: Fax:		Project Name: Appleton Former MGP		<table border="1" style="width:100%;"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td><input type="checkbox"/> NPDES</td> <td><input checked="" type="checkbox"/> GROUND WATER</td> <td><input type="checkbox"/> DRINKING WATER</td> </tr> <tr> <td><input type="checkbox"/> UST</td> <td><input type="checkbox"/> RCRA</td> <td><input type="checkbox"/> OTHER</td> </tr> </table>		REGULATORY AGENCY			<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
REGULATORY AGENCY														
<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												
Requested Due Date/TAT: standard		Project Number: 67973.200.038		<table border="1" style="width:100%;"> <tr> <th>Site Location</th> <th>STATE:</th> </tr> <tr> <td></td> <td>WI</td> </tr> </table>		Site Location	STATE:		WI					
Site Location	STATE:													
	WI													

Page: 2 of 2

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.						
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	↓ Analysis Test ↓	N			Y	N	N	N	N	N
					DATE	TIME	DATE	TIME																				
1	DuP02		602	G			10-31-19	0905	3																	013	①	
2	MW-21							0931	1																	014	①	
3	MW-22							1017	1																	015	①	
4	MW-20							1100	1																	016	①	
5	MW-02R					ABB		1142	1																	017	①	
6	E302		DI				10/31/19	1200	4																	018	①	
7	Trip Blank 1		LAB						2																	019	①	
8	ABB 10/31/19																											
9	ABB 10/31/19																											
10	ABB 10/31/19																											
11	ABB 10/31/19																											
12	ABB 10/31/19																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2	Alex Bartelme / OBG	10/31/19	1745							
Copy: Alex Bartelme, OBG, Part of Ramboll	CS Logistics	11/2/19	08:00	Quinn Ryan	11/2/19	0800	ROI	Y	Y	Y

Custody: 67973-001				1 E 1
Seals: 67973-002				

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Alex Bartelme		DATE Signed (MM/DD/YY): 10/31/19					
SIGNATURE of SAMPLER: 							

Sample Preservation Receipt Form

Pace Analytical Services, LLC,
1241 Bellevue Street, Suite 92
Green Bay, WI 54302

Client Name: WE Energies

Project # 409848

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

Lab Lot# of pH paper: 1005 3581

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

Initial when completed: GR


Date/Time:

Page 202002

Pace Lab #	Glass							Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)							
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T	ZPLC	GN				
001										1		1					6																				2.5 / 5 / 10
002										1		1					6																				2.5 / 5 / 10
003										1		1					6																				2.5 / 5 / 10
004										1		1					6																				2.5 / 5 / 10
005										1		1					6																				2.5 / 5 / 10
006										3		3					18																				2.5 / 5 / 10
007																	3																				2.5 / 5 / 10
008																	3																				2.5 / 5 / 10
009											1		1				6																				2.5 / 5 / 10
010																	3																				2.5 / 5 / 10
011																	3																				2.5 / 5 / 10
012																	3																				2.5 / 5 / 10
013																	3																				2.5 / 5 / 10
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016																	3																				2.5 / 5 / 10
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018																	3																				2.5 / 5 / 10
019																	2																				2.5 / 5 / 10
020																																					2.5 / 5 / 10

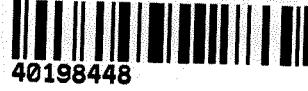
Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3B 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:

 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)

Project #

WO# : 40198448

 Client Name: WE Energies

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

 Cooler Temperature Uncorr: N/A / Corr: _____

 Temp Blank Present: yes no

 Biological Tissue is Frozen: yes no

Person examining contents:

 Date: 11/2/19
 Initials: OR

 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>Line 11 on COC is 12R on Label is 12 11/2/19 OR</u> <u>Line 6 Has 18 vials COC says 24</u> <u>(oil) samples mw-12 / COC mw12R (oil) sample E601 / COC E602R</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	<u>Trip Blank cut dated 08/12/19 on Label 11/2/19 OR</u>
Pace Trip Blank Lot # (if purchased): <u>433</u>		

Client Notification/ Resolution:

 If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

 Date: 11-4-19