Prepared for
Wisconsin Public Service Corporation

Date
January 31, 2023

Project No.
1940102327

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WESTON UNITS 3 & 4 BOTTOM ASH BASINS

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2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
WESTON UNITS 3 & 4 BOTTOM ASH BASINS

Project name	**Weston Generating Station Units 3 & 4 Bottom Ash Basins**
Project no.	**1940102327**
Recipient	**Wisconsin Public Service Corporation**
Document type	**Annual Groundwater Monitoring and Corrective Action Report**
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Date	**January 31, 2023**
Prepared by	**Andrew F. Hardwick**
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ACRONYMS AND ABBREVIATIONS

§	Section
40 C.F.R.	Title 40 of the Code of Federal Regulations
ASD	Alternate Source Demonstration
CCR	Coal Combustion Residuals
GWPS	Groundwater Protection Standard
NA	not applicable
NRT/OBG	Natural Resource Technology, an OBG Company
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SSI	Statistically Significant Increase
TBD	to be determined
Weston	Weston Generating Station

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.90(e) for the Weston Generating Station (Weston) Units 3 & 4 Bottom Ash Basins located in Rothschild, Wisconsin.

Groundwater is being monitored at Weston Units 3 & 4 Bottom Ash Basins in accordance with the detection monitoring program requirements specified in 40 C.F.R. § 257.94.

No changes were made to the monitoring system in 2022 (no wells were installed or decommissioned).

In 2022, groundwater analytical data was evaluated for statistically significant increases (SSIs) over background concentrations for Appendix III constituents in groundwater monitoring wells at the Weston Units 3 & 4 Bottom Ash Basins. The following constituents and wells had SSIs detected in 2022:

- OW-50 – pH (low)

Alternate Source Demonstrations (ASDs) prepared in 2022 or in prior years provide justification that the SSIs observed during the Detection Monitoring Program were not due to a release from the CCR unit but were likely due to naturally occurring conditions (*e.g.,* natural variation in groundwater quality).

The Weston Units 3 & 4 Bottom Ash Basins remain in the Detection Monitoring Program in accordance with 40 C.F.R. § 257.94.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Wisconsin Public Service Corporation, to provide the information required by 40 C.F.R. § 257.90(e) for the Weston Generating Station (Weston) Units 3 & 4 Bottom Ash Basins located in Rothschild, Wisconsin.

In accordance with 40 C.F.R. § 257.90(e), the owner or operator of a coal combustion residuals (CCR) unit must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR unit, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and projects key activities for the upcoming year. At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit.
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken.
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs.
4. A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at an SSI relative to background levels).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
6. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:
    i. At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95.
    ii. At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95.
    iii. If it was determined that there was an SSI over background for one or more constituents listed in Appendix III of § 257 pursuant to § 257.94(e):
        A. Identify those constituents listed in Appendix III of § 257 and the names of the monitoring wells associated with such an increase.
        B. Provide the date when the assessment monitoring program was initiated for the CCR unit.

iv. If it was determined that there was a statistically significant level above the groundwater protection standard [GWPS] for one or more constituents listed in Appendix IV of § 257 pursuant to § 257.95(g) include all of the following:

   A. Identify those constituents listed in Appendix IV of § 257 and the names of the monitoring wells associated with such an increase.

   B. Provide the date when the assessment of corrective measures was initiated for the CCR unit.

   C. Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit.

   D. Provide the date when the assessment of corrective measures was completed for the CCR unit.

v. Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection.

vi. Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

This report provides the required information for the Weston Units 3 & 4 Bottom Ash Basins for calendar year 2022.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

No changes have occurred to the monitoring program status in calendar year 2022 the Weston Units 3 & 4 Bottom Ash Basins remain in the detection monitoring program in accordance with 40 C.F.R. § 257.94.

3. KEY ACTIONS COMPLETED IN 2022

The detection monitoring program is summarized in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background (upgradient) and downgradient monitoring wells, is presented in **Figure 1**. No changes were made to the monitoring system in 2022. In general, one groundwater sample was collected from each background and compliance well during each monitoring event. All samples were collected and analyzed in accordance with the *Sampling and Analysis Plan* (SAP; Natural Resource Technology, an OBG Company [NRT/OBG], 2017) prepared for Weston Units 3 & 4 Bottom Ash Basins. Potentiometric surface maps for the fourth quarter of 2021 and both monitoring events in 2022 are included in **Figures 2 through 4**. Water level data, collected from background and downgradient monitoring wells, are included in **Table 1**. All monitoring data and analytical results obtained under 40 C.F.R. §§ 257.90 through 257.98 (as applicable) in the fourth quarter of 2021 and both monitoring events in 2022 are presented in **Table 2**. Laboratory reports for the fourth quarter of 2021 and both 2022 monitoring events are included in **Appendix A**.

Analytical data were evaluated in accordance with the *Statistical Analysis Plan, Weston Units 3 & 4 Bottom Ash Basins* (NRT/OBG, 2017) to determine any SSIs of Appendix III parameters relative to background concentrations. Statistical background values are provided in **Table 3**. A flow chart showing the statistical methodology for determination of background values is included as **Appendix B**.

Statistical evaluation, including SSI determinations, of analytical data from the Detection Monitoring Program for December 22, 2021 (Detection Monitoring Round 9) and June 8, 2022 (Detection Monitoring Round 10) were completed in 2022 and within 90 days of receipt of the analytical data. SSIs over background concentrations for Appendix III constituents were identified during data evaluations of Rounds 9 & 10 groundwater sampling analytical data. Additional information regarding SSI parameters and well locations is provided in **Table A**.

The ASD dated January 8, 2022 for the Weston Units 3 & 4 Bottom Ash Basins provided a description, data, and pertinent information supporting an alternate source for the wells and parameters with SSIs in Detection Monitoring Round 8 (OW-50 – pH low). Data resulting in SSIs above background are consistent with analytical results observed in previous detection monitoring rounds. As a result, no ASDs were prepared in 2022.

Table A. 2021-2022 Detection Monitoring Program Summary

Detection Round	Sampling Date	Analytical Data Receipt Date	Parameters Collected	SSI Wells (Parameters)	SSI(s) Determination Date	ASD Completion Date[1]
9	December 22, 2021	January 26, 2022	Appendix III	OW-50 (pH – low)	April 26, 2022	NA
10	June 8-9, 2022	August 25, 2022	Appendix III	OW-50 (pH – low)	November 23, 2022	NA
11	December 5, 2022	January 6, 2023	Appendix III	TBD	TBD Before April 8, 2023	TBD

Notes:

NA = not applicable

TBD = to be determined

[1] The ASD dated January 8, 2022 demonstrated that the lower pH values at OW-50 during Detection Monitoring Round 8 were not attributable to the CCR unit. Data resulting in SSIs above background for Detection Monitoring Round 9 and 10 are consistent with previous monitoring rounds.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the Groundwater Monitoring Program during 2022. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2023

The following key activities are planned for 2023:

- Continuation of the detection monitoring program with semi-annual sampling scheduled for the second and fourth quarters of 2023.
- Complete evaluation of analytical data from the compliance wells using background data to determine whether an SSI of Appendix III parameters detected at concentrations greater than background concentrations has occurred.
- If an SSI is identified, potential alternate sources (*i.e.,* a source other than the CCR unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
  - If an alternate source is identified to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI determination and included in the 2023 Annual Groundwater Monitoring and Corrective Action Report.
  - If an alternate source(s) is not identified to be the cause of the SSI, the applicable requirements of 40 C.F.R. §§ 257.94 through 257.98 as may apply in 2023 (*e.g.,* assessment monitoring) will be met, including associated recordkeeping/notifications required by 40 C.F.R. §§ 257.105 through 257.108.

6. REFERENCES

Natural Resource Technology, an OBG Company (NRT/OBG), 2017, *Sampling and Analysis Plan, Weston Units 3 & 4 Bottom Ash Basins, Rothschild, Wisconsin, October 2, 2017.*

Natural Resource Technology, an OBG Company (NRT/OBG), 2017, *Statistical Analysis Plan, Weston Units 3 & 4 Bottom Ash Basins, Rothschild, Wisconsin, October 17, 2017.*

TABLES

TABLE 1. GROUNDWATER ELEVATIONS

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
WESTON GENERATING STATION UNITS 3 & 4 BOTTOM ASH BASINS
ROTHSCHILD, WI

Well ID	Well Type	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Date	Groundwater Elevation (ft NAVD88)
OW-45	Background (Upgradient)	44.853310	-89.649109	12/22/2021	1148.20
				06/08/2022	1148.49
				12/05/2022	1147.20
OW-46	Background (Upgradient)	44.852081	-89.649947	12/22/2021	1148.52
				06/08/2022	1148.78
				12/05/2022	1147.42
OW-47R	Compliance (Downgradient)	44.854553	-89.654607	12/22/2021	1145.68
				06/08/2022	1146.20
				12/05/2022	1144.91
OW-48	Compliance (Downgradient)	44.854558	-89.655273	12/22/2021	1145.09
				06/08/2022	1145.63
				12/05/2022	1144.36
OW-49	Compliance (Downgradient)	44.854477	-89.656204	12/22/2021	1144.86
				06/08/2022	1145.38
				12/05/2022	1144.08
OW-50	Compliance (Downgradient)	44.853785	-89.656657	12/22/2021	1144.88
				06/08/2022	1145.41
				12/05/2022	1144.12

Notes:
ft = foot/feet
NAVD88 = North American Vertical Datum of 1988

Weston Unit 3&4 Bottom Ash CCR
Table 2. Analytical Results - Appendix III Parameters

Date Range: 10/01/2021 to 01/01/2023

Lab Methods:

Well Id	Date Sampled	Lab Id	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
OW-45	12/22/2021	AE57835	0.0322	17.6000	56.6	<0.10	6.7	8.1
	6/8/2022	AE61618	0.0279	14.6000	25.3	<0.10	6.3	13.9
	12/5/2022	AE64340	0.0316	24.9000	75.6	<0.10	6.4	11.4
OW-46	12/22/2021	AE57836	0.0353	7.0500	47.9	<0.10	6.9	12.3
	6/8/2022	AE61619	0.0325	18.0000	77.0	<0.10	6.2	16.4
	12/5/2022	AE64342	0.0317	10.8000	40.9	<0.10	6.5	10.5
OW-47/OW-47R	12/22/2021	AE57837	0.0750	37.6000	76.0	<0.48	6.1	77.2
	6/8/2022	AE61620	0.2180	35.8000	78.2	<0.10	5.9	49.2
	12/5/2022	AE64343	0.1110	29.9000	75.4	<0.10	6.1	30.5
OW-48	12/22/2021	AE57838	0.3370	32.7000	67.9	<0.48	6.3	76.0
	6/8/2022	AE61621	0.3570	33.9000	67.7	<0.10	5.9	93.4
	12/5/2022	AE64344	0.3000	33.3000	53.0	<0.10	6.3	82.5
OW-49	12/22/2021	AE57839	0.2240	43.2000	80.3	<0.48	6.0	112.0
	6/8/2022	AE61622	0.2060	42.7000	114.0	<0.10	5.9	103.0
	12/5/2022	AE64345	0.2220	32.8000	85.9	<0.10	6.0	82.1
OW-50	12/22/2021	AE57840	0.0332	24.9000	58.4	<0.48	5.6	19.3
	6/8/2022	AE61623	0.0316	26.5000	68.7	<0.10	5.5	19.5
	12/5/2022	AE64346	0.0358	28.4000	68.0	<0.48	5.6	20.7

Weston Unit 3&4 Bottom Ash CCR
Table 2. Analytical Results - Appendix III Parameters

Date Range: 10/01/2021 to 01/01/2023

Lab Methods:

Well Id	Date Sampled	Lab Id	TDS, mg/L
OW-45	12/22/2021	AE57835	190.0
	6/8/2022	AE61618	148.0
	12/5/2022	AE64340	228.0
OW-46	12/22/2021	AE57836	112.0
	6/8/2022	AE61619	230.0
	12/5/2022	AE64342	142.0
OW-47/OW-47R	12/22/2021	AE57837	258.0
	6/8/2022	AE61620	330.0
	12/5/2022	AE64343	240.0
OW-48	12/22/2021	AE57838	236.0
	6/8/2022	AE61621	340.0
	12/5/2022	AE64344	284.0
OW-49	12/22/2021	AE57839	338.0
	6/8/2022	AE61622	398.0
	12/5/2022	AE64345	324.0
OW-50	12/22/2021	AE57840	176.0
	6/8/2022	AE61623	272.0
	12/5/2022	AE64346	220.0

Notes:

Exceedance of Background

TABLE 3
STATISTICAL BACKGROUND VALUES
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
WESTON GENERATING STATION
UNITS 3 & 4 BOTTOM ASH BASINS
ROTHSCHILD, WISCONSIN

Parameter	Well ID	Statistical Background Value (LPL/UPL)
40 C.F.R. Part 257 Appendix III		
Boron (mg/L)	OW-45	0.0442
Boron (mg/L)	OW-46	0.0402
Boron (mg/L)	OW-47/OW-47R	0.481
Boron (mg/L)	OW-48	1.02
Boron (mg/L)	OW-49	0.699
Boron (mg/L)	OW-50	0.0578
Calcium (mg/L)	OW-45	22.4
Calcium (mg/L)	OW-46	26.1
Calcium (mg/L)	OW-47/OW-47R	100
Calcium (mg/L)	OW-48	105
Calcium (mg/L)	OW-49	98.6
Calcium (mg/L)	OW-50	28.2
Chloride (mg/L)	OW-45	85.7
Chloride (mg/L)	OW-46	117
Chloride (mg/L)	OW-47/OW-47R	126
Chloride (mg/L)	OW-48	116
Chloride (mg/L)	OW-49	331
Chloride (mg/L)	OW-50	112
Fluoride (mg/L)	OW-45	0.840
Fluoride (mg/L)	OW-46	DQR
Fluoride (mg/L)	OW-47/OW-47R	0.100
Fluoride (mg/L)	OW-48	0.110
Fluoride (mg/L)	OW-49	DQR
Fluoride (mg/L)	OW-50	0.11
pH (field) (SU)	OW-45	6.0/9.0
pH (field) (SU)	OW-46	4.7/9.6
pH (field) (SU)	OW-47/OW-47R	4.8/9.7
pH (field) (SU)	OW-48	4.9/9.9
pH (field) (SU)	OW-49	5.0/9.8
pH (field) (SU)	OW-50	6.1/7.4
Sulfate (mg/L)	OW-45	31.3
Sulfate (mg/L)	OW-46	93.6
Sulfate (mg/L)	OW-47/OW-47R	171
Sulfate (mg/L)	OW-48	192
Sulfate (mg/L)	OW-49	171
Sulfate (mg/L)	OW-50	20.3
Total Dissolved Solids (mg/L)	OW-45	234
Total Dissolved Solids (mg/L)	OW-46	301

TABLE 3

STATISTICAL BACKGROUND VALUES

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WESTON GENERATING STATION

UNITS 3 & 4 BOTTOM ASH BASINS

ROTHSCHILD, WISCONSIN

Parameter	Well ID	Statistical Background Value (LPL/UPL)
40 C.F.R. Part 257 Appendix III		
Total Dissolved Solids (mg/L)	OW-47/OW-47R	601
Total Dissolved Solids (mg/L)	OW-48	515
Total Dissolved Solids (mg/L)	OW-49	552
Total Dissolved Solids (mg/L)	OW-50	273

Notes:

40 C.F.R. = Title 40 of the Code of Federal Regulations

LPL = Lower Prediction Limit (applicable for pH only)

mg/L = milligrams per liter

DQR = Double quantification rule, background data set is non-detect. If parameter is detected in both the sample event and a resample it is considered an exceedance.

SU = Standard Units

UPL = Upper Prediction Limit

FIGURES

Y:\GIS\Projects\161660\Weston_Units3_4_BA\BMXD\GM_CAR_2022\Figure 1_GW Samp Well Loc_Weston_U34BAB.mxd

PROJECT: 71202 | DATED: 1/27/2023 | DESIGNER: galarmmc

CCR RULE UPGRADIENT MONITORING WELL LOCATION

CCR RULE DOWNGRADIENT MONITORING WELL LOCATION

UNIT BOUNDARY

0 100 200 Feet

MONITORING WELL LOCATION MAP

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
WESTON GENERATING STATION UNITS 3 & 4 BOTTOM ASH BASINS
ROTHSCHILD, WISCONSIN

FIGURE 1

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CCR RULE MONITORING WELL LOCATION

GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD 88)

GROUNDWATER FLOW DIRECTION

UNIT BOUNDARY

0 125 250 Feet

POTENTIOMETRIC SURFACE MAP

DECEMBER 22, 2021

2022 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
WESTON GENERATING STATION UNITS 3 & 4 BOTTOM ASH BASINS
ROTHSCHILD, WISCONSIN

FIGURE 2

RAMBOLL AMERICAS
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PROJECT: 169000XXXX | DATED: 1/27/2023 | DESIGNER: galammc

CCR RULE MONITORING WELL LOCATION

GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD 88)

GROUNDWATER FLOW DIRECTION

UNIT BOUNDARY

0 125 250 Feet

POTENTIOMETRIC SURFACE MAP

JUNE 8, 2021

2022 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
WESTON GENERATING STATION UNITS 3 & 4 BOTTOM ASH BASINS
ROTHSCHILD, WISCONSIN

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

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PROJECT: 169000XXXX | DATED: 1/27/2023 | DESIGNER: galammc

CCR RULE MONITORING WELL LOCATION

GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD 88)

GROUNDWATER FLOW DIRECTION

UNIT BOUNDARY

0 125 250 Feet

POTENTIOMETRIC SURACE MAP

DECEMBER 5, 2022

2022 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
WESTON GENERATING STATION UNITS 3 & 4 BOTTOM ASH BASINS
ROTHSCHILD, WISCONSIN

FIGURE 4

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PROJECT: 169000XXXX | DATED: 1/27/2023 | DESIGNER: galammc

APPENDICES

APPENDIX A
LABORATORY REPORTS

To: Eric Kovatch
PSB Annex A231

From: WEC Business Services
Laboratory Services PSBA-A070
WDNR Cert # 241329000

Report Date: Wednesday, January 26, 2022

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **OW-45 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57835 Sample Collection Date/Time: 12/22/2021 09:52
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	26.95	0.05	feet		1.0		H2OD	12/22/21	C APPLEKAMP
Field Temperature	9.6	0.1	Degrees C		1.0		TEMP	12/22/21	C APPLEKAMP
Field Conductivity	317	0	umhos		1.0		FCOND25	12/22/21	C APPLEKAMP
Field pH	6.7	0.1	Units	0.1	1.0		FIELDPH	12/22/21	C APPLEKAMP
Dissolved Oxygen-Field	10.33	0.1	mg/l		1.0		FIELDDO	12/22/21	C APPLEKAMP
Turbidity	1.74	0.1	NTU'S		1.0		EPA 180.1	12/22/21	C APPLEKAMP
Redox Potential	225	1	mV		1.0		ASTM D1498-93	12/22/21	C APPLEKAMP
Total Chloride	56.6	0.43	mg/L	2.0	1.0		EPA 300.0	1/5/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	1/5/22	020
Total Sulfate	8.1	0.44	mg/L	2.0	1.0		EPA 300.0	1/5/22	020
Total Calcium	17600	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Total Boron	32.2	17.3	ug/L	40.0	1.0	J	EPA 200.7	12/27/21	020
Total Dissolved Solids	190	1.0	mg/L	2.3	1.0		Std Mtd 2540 C	12/28/21	020
Dissolved Calcium	18000	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Magnesium	4020	182	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Sodium	45400	3500	ug/L	5000	10.0		EPA 200.7	12/27/21	020
Dissolved Potassium	1790	325	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Chloride	56.3	0.43	mg/L	2.0	1.0		EPA 300.0	1/6/22	020
Dissolved Sulfate	8.1	0.44	mg/L	2.0	1.0		EPA 300.0	1/6/22	020
Total Alkalinity as CaCO3	57.0	5.0	mg/L	17	1.0		SM 2320 B-1997	12/27/21	020
Bicarbonate Ion	57.0	5.0	mg/L		1.0		HCO3	1/26/22	PJA
Carbonate Ion	Less Than	0.1	mg/L		1.0		CO3	1/26/22	PJA

Sample Comments:

Sample Description: **OW-46 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57836 Sample Collection Date/Time: 12/22/2021 11:14
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	28.13	0.05	feet		1.0		H2OD	12/22/21	C APPLEKAMP
Field Temperature	9.3	0.1	Degrees C		1.0		TEMP	12/22/21	C APPLEKAMP
Field Conductivity	265	0	umhos		1.0		FCOND25	12/22/21	C APPLEKAMP
Field pH	6.9	0.1	Units	0.1	1.0		FIELDPH	12/22/21	C APPLEKAMP
Dissolved Oxygen-Field	9.86	0.1	mg/l		1.0		FIELDDO	12/22/21	C APPLEKAMP
Turbidity	5.21	0.1	NTU'S		1.0		EPA 180.1	12/22/21	C APPLEKAMP

Report Date: Wednesday, January 26, 2022

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **OW-46 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57836 Sample Collection Date/Time: 12/22/2021 11:14
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Redox Potential	202	1	mV		1.0		ASTM D1498-93	12/22/21	C APPLEKAMP
Total Chloride	47.9	0.43	mg/L	2.0	1.0		EPA 300.0	1/5/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	1/5/22	020
Total Sulfate	12.3	0.44	mg/L	2.0	1.0		EPA 300.0	1/5/22	020
Total Calcium	7050	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Total Boron	35.3	17.3	ug/L	40.0	1.0	J	EPA 200.7	12/27/21	020
Total Dissolved Solids	112	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	12/28/21	020
Dissolved Calcium	6820	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Magnesium	1580	182	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Sodium	41800	350	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Potassium	1260	325	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Chloride	47.3	0.43	mg/L	2.0	1.0		EPA 300.0	1/6/22	020
Dissolved Sulfate	12.2	0.44	mg/L	2.0	1.0		EPA 300.0	1/6/22	020
Total Alkalinity as CaCO3	38.1	5.0	mg/L	17	1.0		SM 2320 B-1997	12/27/21	020
Bicarbonate Ion	38.1	5.0	mg/L		1.0		HCO3	1/26/22	PJA
Carbonate Ion	Less Than	0.1	mg/L		1.0		CO3	1/26/22	PJA

Sample Comments:

Sample Description: **OW-47R Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57837 Sample Collection Date/Time: 12/22/2021 12:19
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	38.02	0.05	feet		1.0		H2OD	12/22/21	C APPLEKAMP
Field Temperature	9.5	0.1	Degrees C		1.0		TEMP	12/22/21	C APPLEKAMP
Field Conductivity	479	0	umhos		1.0		FCOND25	12/22/21	C APPLEKAMP
Field pH	6.1	0.1	Units	0.1	1.0		FIELDPH	12/22/21	C APPLEKAMP
Dissolved Oxygen-Field	6.45	0.1	mg/l		1.0		FIELDDO	12/22/21	C APPLEKAMP
Turbidity	1.83	0.1	NTU'S		1.0		EPA 180.1	12/22/21	C APPLEKAMP
Redox Potential	225	1	mV		1.0		ASTM D1498-93	12/22/21	C APPLEKAMP
Total Chloride	76.0	2.2	mg/L	10.0	5.0		EPA 300.0	1/8/22	020
Total Fluoride	Less Than	0.48	mg/L	1.6	5.0		EPA 300.0	1/5/22	020
Total Sulfate	77.2	2.2	mg/L	10.0	5.0		EPA 300.0	1/8/22	020
Total Calcium	37600	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Total Boron	75.0	17.3	ug/L	40.0	1.0		EPA 200.7	12/27/21	020
Total Dissolved Solids	258	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	12/28/21	020
Dissolved Calcium	38800	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Magnesium	10300	182	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Sodium	36500	350	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Potassium	2380	325	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Chloride	76.0	2.2	mg/L	10.0	5.0		EPA 300.0	1/8/22	020
Dissolved Sulfate	77.2	2.2	mg/L	10.0	5.0		EPA 300.0	1/8/22	020
Total Alkalinity as CaCO3	31.0	5.0	mg/L	17	1.0		SM 2320 B-1997	12/27/21	020

Report Date: Wednesday, January 26, 2022

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **OW-47R Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57837 Sample Collection Date/Time: 12/22/2021 12:19
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Bicarbonate Ion	31.0	5.0	mg/L		1.0		HCO3	1/26/22	PJA
Carbonate Ion	Less Than	0.1	mg/L		1.0		CO3	1/26/22	PJA

Sample Comments:

Sample Description: **OW-48 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57838 Sample Collection Date/Time: 12/22/2021 13:12
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	31.28	0.05	feet		1.0		H2OD	12/22/21	C APPLEKAMP
Field Temperature	9.9	0.1	Degrees C		1.0		TEMP	12/22/21	C APPLEKAMP
Field Conductivity	475	0	umhos		1.0		FCOND25	12/22/21	C APPLEKAMP
Field pH	6.3	0.1	Units	0.1	1.0		FIELDPH	12/22/21	C APPLEKAMP
Dissolved Oxygen-Field	8.42	0.1	mg/l		1.0		FIELDDO	12/22/21	C APPLEKAMP
Turbidity	5.44	0.1	NTU'S		1.0		EPA 180.1	12/22/21	C APPLEKAMP
Redox Potential	223	1	mV		1.0		ASTM D1498-93	12/22/21	C APPLEKAMP
Total Chloride	67.9	2.2	mg/L	10.0	5.0		EPA 300.0	1/5/22	020
Total Fluoride	Less Than	0.48	mg/L	1.6	5.0		EPA 300.0	1/5/22	020
Total Sulfate	76.0	2.2	mg/L	10.0	5.0		EPA 300.0	1/5/22	020
Total Calcium	32700	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Total Boron	337	17.3	ug/L	40.0	1.0		EPA 200.7	12/27/21	020
Total Dissolved Solids	236	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	12/28/21	020
Dissolved Calcium	33000	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Magnesium	5130	182	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Sodium	51000	350	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Potassium	2670	325	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Chloride	65.1	2.2	mg/L	10.0	5.0		EPA 300.0	1/11/22	020
Dissolved Sulfate	73.3	2.2	mg/L	10.0	5.0		EPA 300.0	1/11/22	020
Total Alkalinity as CaCO3	50.8	5.0	mg/L	17	1.0		SM 2320 B-1997	12/27/21	020
Bicarbonate Ion	50.8	5.0	mg/L		1.0		HCO3	1/26/22	PJA
Carbonate Ion	Less Than	0.1	mg/L		1.0		CO3	1/26/22	PJA

Sample Comments:

Sample Description: **OW-49 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57839 Sample Collection Date/Time: 12/22/2021 14:30
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	30.22	0.05	feet		1.0		H2OD	12/22/21	C APPLEKAMP
Field Temperature	11	0.1	Degrees C		1.0		TEMP	12/22/21	C APPLEKAMP

Report Date: Wednesday, January 26, 2022

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **OW-49 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57839 Sample Collection Date/Time: 12/22/2021 14:30
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Field Conductivity	595	0	umhos		1.0		FCOND25	12/22/21	C APPLEKAMP
Field pH	6.0	0.1	Units	0.1	1.0		FIELDPH	12/22/21	C APPLEKAMP
Dissolved Oxygen-Field	6.57	0.1	mg/l		1.0		FIELDDO	12/22/21	C APPLEKAMP
Turbidity	1.78	0.1	NTU'S		1.0		EPA 180.1	12/22/21	C APPLEKAMP
Redox Potential	231	1	mV		1.0		ASTM D1498-93	12/22/21	C APPLEKAMP
Total Chloride	80.3	2.2	mg/L	10.0	5.0		EPA 300.0	1/5/22	020
Total Fluoride	Less Than	0.48	mg/L	1.6	5.0		EPA 300.0	1/5/22	020
Total Sulfate	112	2.2	mg/L	10.0	5.0		EPA 300.0	1/5/22	020
Total Calcium	43200	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Total Boron	224	17.3	ug/L	40.0	1.0		EPA 200.7	12/27/21	020
Total Dissolved Solids	338	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	12/28/21	020
Dissolved Calcium	43800	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Magnesium	6610	182	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Sodium	61600	350	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Potassium	3220	325	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Chloride	71.2	2.2	mg/L	10.0	5.0		EPA 300.0	1/11/22	020
Dissolved Sulfate	99.4	2.2	mg/L	10.0	5.0		EPA 300.0	1/11/22	020
Total Alkalinity as CaCO3	54.2	5.0	mg/L	17	1.0		SM 2320 B-1997	12/27/21	020
Bicarbonate Ion	54.2	5.0	mg/L		1.0		HCO3	1/26/22	PJA
Carbonate Ion	Less Than	0.1	mg/L		1.0		CO3	1/26/22	PJA

Sample Comments:

Sample Description: **OW-50 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57840 Sample Collection Date/Time: 12/22/2021 15:13
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	30.68	0.05	feet		1.0		H2OD	12/22/21	C APPLEKAMP
Field Temperature	9.5	0.1	Degrees C		1.0		TEMP	12/22/21	C APPLEKAMP
Field Conductivity	317	0	umhos		1.0		FCOND25	12/22/21	C APPLEKAMP
Field pH	5.6	0.1	Units	0.1	1.0		FIELDPH	12/22/21	C APPLEKAMP
Dissolved Oxygen-Field	4.32	0.1	mg/l		1.0		FIELDDO	12/22/21	C APPLEKAMP
Turbidity	4.29	0.1	NTU'S		1.0		EPA 180.1	12/22/21	C APPLEKAMP
Redox Potential	240	1	mV		1.0		ASTM D1498-93	12/22/21	C APPLEKAMP
Total Chloride	58.4	2.2	mg/L	10.0	5.0		EPA 300.0	1/5/22	020
Total Fluoride	Less Than	0.48	mg/L	1.6	5.0		EPA 300.0	1/5/22	020
Total Sulfate	19.3	2.2	mg/L	10.0	5.0		EPA 300.0	1/5/22	020
Total Calcium	24900	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Total Boron	33.2	17.3	ug/L	40.0	1.0	J	EPA 200.7	12/27/21	020
Total Dissolved Solids	176	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	12/28/21	020
Dissolved Calcium	25100	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Magnesium	6170	182	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Sodium	22200	350	ug/L	500	1.0		EPA 200.7	12/27/21	020

Report Date: Wednesday, January 26, 2022

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **OW-50 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57840 Sample Collection Date/Time: 12/22/2021 15:13
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Dissolved Potassium	1900	325	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Chloride	59.2	0.43	mg/L	2.0	1.0		EPA 300.0	1/7/22	020
Dissolved Sulfate	21.7	0.44	mg/L	2.0	1.0		EPA 300.0	1/7/22	020
Total Alkalinity as CaCO3	36.0	5.0	mg/L	17	1.0		SM 2320 B-1997	12/27/21	020
Bicarbonate Ion	36.0	5.0	mg/L		1.0		HCO3	1/26/22	PJA
Carbonate Ion	Less Than	0.1	mg/L		1.0		CO3	1/26/22	PJA

Sample Comments:

Sample Description: **EB1 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57841 Sample Collection Date/Time: 12/22/2021 17:20
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Field Temperature	4.4	0.1	Degrees C		1.0		TEMP	12/22/21	C APPLEKAMP
Field Conductivity	2	0	umhos		1.0		FCOND25	12/22/21	C APPLEKAMP
Field pH	5.8	0.1	Units	0.1	1.0		FIELDPH	12/22/21	C APPLEKAMP
Total Chloride	Less Than	0.43	mg/L	2.0	1.0		EPA 300.0	1/5/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	1/5/22	020
Total Sulfate	Less Than	0.44	mg/L	2.0	1.0		EPA 300.0	1/5/22	020
Total Calcium	Less Than	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Total Boron	Less Than	17.3	ug/L	40.0	1.0		EPA 200.7	12/27/21	020
Total Dissolved Solids	Less Than	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	12/28/21	020
Dissolved Calcium	Less Than	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Magnesium	Less Than	182	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Sodium	Less Than	350	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Potassium	Less Than	325	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Chloride	Less Than	0.43	mg/L	2.0	1.0		EPA 300.0	1/7/22	020
Dissolved Sulfate	Less Than	0.44	mg/L	2.0	1.0		EPA 300.0	1/7/22	020
Total Alkalinity as CaCO3	Less Than	5.0	mg/L	17	1.0		SM 2320 B-1997	12/27/21	020

Sample Comments:

Sample Description: **QA01 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57842 Sample Collection Date/Time: 12/22/2021 00:00
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Total Chloride	57.2	0.43	mg/L	2.0	1.0		EPA 300.0	1/7/22	020
Total Fluoride	Less Than	0.48	mg/L	1.6	5.0		EPA 300.0	1/5/22	020
Total Sulfate	8.1	0.44	mg/L	2.0	1.0		EPA 300.0	1/7/22	020
Total Calcium	17700	114	ug/L	500	1.0		EPA 200.7	12/27/21	020

Report Date: Wednesday, January 26, 2022

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **QA01 Weston Units 3-4 Bottom Ash Basins Well Sample**
Sample ID: AE57842 Sample Collection Date/Time: 12/22/2021 00:00
Sample Received: 12/28/2021 Sample Collector: CODY APPLEKAMP

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
Total Boron	33.2	17.3	ug/L	40.0	1.0	J	EPA 200.7	12/27/21	020
Total Dissolved Solids	164	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	12/28/21	020
Dissolved Calcium	17800	114	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Magnesium	3940	182	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Sodium	38200	350	ug/L	500	1.0		EPA 200.7	12/27/21	020
Dissolved Potassium	1780	325	ug/L	1000	1.0		EPA 200.7	12/27/21	020
Dissolved Chloride	56.6	0.43	mg/L	2.0	1.0		EPA 300.0	1/7/22	020
Dissolved Sulfate	8.2	0.44	mg/L	2.0	1.0		EPA 300.0	1/7/22	020
Total Alkalinity as CaCO3	57.0	5.0	mg/L	17	1.0		SM 2320 B-1997	12/27/21	020

Sample Comments:

LOD and LOQ are adjusted for dilution factor.
'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact: Patrick Ahrens at (414) 221-2835.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 23, 2022

Christina Walker
WE Energies

,

RE: Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Dear Christina Walker:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

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

Enclosures

cc: Robin Ligman, WEC Business Services, LLC.
MARK METCALF, WEC Business Services, LLC.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40246280001	**OW-45**	Water	06/08/22 10:33	06/09/22 16:50
40246280002	**OW-46**	Water	06/08/22 11:23	06/09/22 16:50
40246280003	**OW-47R**	Water	06/08/22 12:20	06/09/22 16:50
40246280004	**OW-48**	Water	06/08/22 12:57	06/09/22 16:50
40246280005	**OW-49**	Water	06/08/22 14:22	06/09/22 16:50
40246280006	**OW-50**	Water	06/08/22 15:56	06/09/22 16:50
40246280007	**QA/QC1**	Water	06/08/22 00:00	06/09/22 16:50
40246280008	**EB1**	Water	06/08/22 13:25	06/09/22 16:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40246280001	**OW-45**	EPA 200.8	KXS	3	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
40246280002	**OW-46**	EPA 200.8	KXS	3	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
40246280003	**OW-47R**	EPA 200.8	KXS	3	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
40246280004	**OW-48**	EPA 200.8	KXS	3	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
40246280005	**OW-49**	EPA 200.8	KXS	3	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
40246280006	**OW-50**	EPA 200.8	KXS	3	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
40246280007	**QA/QC1**	EPA 200.8	KXS	3	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
40246280008	**EB1**	EPA 200.8	KXS	3	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: WEC Business Services, LLC.
Date: June 23, 2022

General Information:
8 samples were analyzed for EPA 200.8 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 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:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: WEC Business Services, LLC.
Date: June 23, 2022

General Information:
8 samples were analyzed for SM 2540C by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

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.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: WEC Business Services, LLC.
Date: June 23, 2022

General Information:
8 samples were analyzed for EPA 300.0 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

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

QC Batch: 418275

B: Analyte was detected in the associated method blank.

- BLANK for HBN 418275 [WETA/693 (Lab ID: 2408832)
  - Sulfate

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.

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ANALYTICAL RESULTS

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Sample: OW-45 **Lab ID: 40246280001** Collected: 06/08/22 10:33 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Boron	**27.9**	ug/L	10.0	3.0	1	06/14/22 05:49	06/22/22 00:26	7440-42-8	
Calcium	**14600**	ug/L	254	76.2	1	06/14/22 05:49	06/22/22 00:26	7440-70-2	
Selenium	**0.44J**	ug/L	1.1	0.32	1	06/14/22 05:49	06/22/22 00:26	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Total Dissolved Solids	**148**	mg/L	20.0	8.7	1		06/10/22 14:28		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**25.3**	mg/L	2.0	0.43	1		06/15/22 14:59	16887-00-6	
Fluoride	**<0.095**	mg/L	0.32	0.095	1		06/15/22 14:59	16984-48-8	
Sulfate	**13.9**	mg/L	2.0	0.44	1		06/15/22 14:59	14808-79-8	

Sample: OW-46 **Lab ID: 40246280002** Collected: 06/08/22 11:23 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Boron	**32.5**	ug/L	10.0	3.0	1	06/14/22 05:49	06/22/22 00:33	7440-42-8	
Calcium	**18000**	ug/L	254	76.2	1	06/14/22 05:49	06/22/22 00:33	7440-70-2	
Selenium	**<0.32**	ug/L	1.1	0.32	1	06/14/22 05:49	06/22/22 00:33	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Total Dissolved Solids	**230**	mg/L	20.0	8.7	1		06/10/22 14:28		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**77.0**	mg/L	10.0	2.2	5		06/17/22 21:26	16887-00-6	
Fluoride	**<0.095**	mg/L	0.32	0.095	1		06/15/22 15:14	16984-48-8	
Sulfate	**16.4**	mg/L	2.0	0.44	1		06/15/22 15:14	14808-79-8	

Sample: OW-47R **Lab ID: 40246280003** Collected: 06/08/22 12:20 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Boron	**218**	ug/L	10.0	3.0	1	06/14/22 05:49	06/22/22 00:41	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Sample: OW-47R **Lab ID: 40246280003** Collected: 06/08/22 12:20 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Calcium	**35800**	ug/L	254	76.2	1	06/14/22 05:49	06/22/22 00:41	7440-70-2	
Selenium	**0.35J**	ug/L	1.1	0.32	1	06/14/22 05:49	06/22/22 00:41	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Total Dissolved Solids	**330**	mg/L	20.0	8.7	1		06/10/22 14:28		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**78.2**	mg/L	10.0	2.2	5		06/15/22 20:19	16887-00-6	
Fluoride	**<0.095**	mg/L	0.32	0.095	1		06/15/22 15:33	16984-48-8	
Sulfate	**49.2**	mg/L	2.0	0.44	1		06/15/22 15:33	14808-79-8	

Sample: OW-48 **Lab ID: 40246280004** Collected: 06/08/22 12:57 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Boron	**357**	ug/L	10.0	3.0	1	06/14/22 05:49	06/22/22 00:48	7440-42-8	
Calcium	**33900**	ug/L	254	76.2	1	06/14/22 05:49	06/22/22 00:48	7440-70-2	
Selenium	**0.69J**	ug/L	1.1	0.32	1	06/14/22 05:49	06/22/22 00:48	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Total Dissolved Solids	**340**	mg/L	20.0	8.7	1		06/10/22 14:28		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**67.7**	mg/L	10.0	2.2	5		06/15/22 20:34	16887-00-6	
Fluoride	**<0.095**	mg/L	0.32	0.095	1		06/15/22 15:48	16984-48-8	
Sulfate	**93.4**	mg/L	10.0	2.2	5		06/15/22 20:34	14808-79-8	

Sample: OW-49 **Lab ID: 40246280005** Collected: 06/08/22 14:22 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Boron	**206**	ug/L	10.0	3.0	1	06/14/22 05:49	06/22/22 00:55	7440-42-8	
Calcium	**42700**	ug/L	254	76.2	1	06/14/22 05:49	06/22/22 00:55	7440-70-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Sample: OW-49 **Lab ID: 40246280005** Collected: 06/08/22 14:22 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Selenium	**0.75J**	ug/L	1.1	0.32	1	06/14/22 05:49	06/22/22 00:55	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Total Dissolved Solids	**398**	mg/L	20.0	8.7	1		06/10/22 14:29		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**114**	mg/L	10.0	2.2	5		06/15/22 20:49	16887-00-6	
Fluoride	**<0.095**	mg/L	0.32	0.095	1		06/15/22 16:03	16984-48-8	
Sulfate	**103**	mg/L	10.0	2.2	5		06/15/22 20:49	14808-79-8	

Sample: OW-50 **Lab ID: 40246280006** Collected: 06/08/22 15:56 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Boron	**31.6**	ug/L	10.0	3.0	1	06/14/22 05:49	06/22/22 01:03	7440-42-8	
Calcium	**26500**	ug/L	254	76.2	1	06/14/22 05:49	06/22/22 01:03	7440-70-2	
Selenium	**<0.32**	ug/L	1.1	0.32	1	06/14/22 05:49	06/22/22 01:03	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Total Dissolved Solids	**272**	mg/L	20.0	8.7	1		06/10/22 14:29		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**68.7**	mg/L	10.0	2.2	5		06/15/22 21:04	16887-00-6	
Fluoride	**<0.095**	mg/L	0.32	0.095	1		06/15/22 16:17	16984-48-8	
Sulfate	**19.5**	mg/L	2.0	0.44	1		06/15/22 16:17	14808-79-8	

Sample: QA/QC1 **Lab ID: 40246280007** Collected: 06/08/22 00:00 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Boron	**27.7**	ug/L	10.0	3.0	1	06/14/22 05:49	06/22/22 01:54	7440-42-8	
Calcium	**14600**	ug/L	254	76.2	1	06/14/22 05:49	06/22/22 01:54	7440-70-2	
Selenium	**0.58J**	ug/L	1.1	0.32	1	06/14/22 05:49	06/22/22 01:54	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Sample: QA/QC1 **Lab ID: 40246280007** Collected: 06/08/22 00:00 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Total Dissolved Solids	**150**	mg/L	20.0	8.7	1		06/10/22 14:29		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**24.6**	mg/L	2.0	0.43	1		06/15/22 16:32	16887-00-6	
Fluoride	**<0.095**	mg/L	0.32	0.095	1		06/15/22 16:32	16984-48-8	
Sulfate	**14.0**	mg/L	2.0	0.44	1		06/15/22 16:32	14808-79-8	

Sample: EB1 **Lab ID: 40246280008** Collected: 06/08/22 13:25 Received: 06/09/22 16:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay								
Boron	**19.8**	ug/L	10.0	3.0	1	06/14/22 05:49	06/22/22 01:47	7440-42-8	
Calcium	**<76.2**	ug/L	254	76.2	1	06/14/22 05:49	06/22/22 01:47	7440-70-2	
Selenium	**<0.32**	ug/L	1.1	0.32	1	06/14/22 05:49	06/22/22 01:47	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Total Dissolved Solids	**14.0J**	mg/L	20.0	8.7	1		06/10/22 14:30		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**0.85J**	mg/L	2.0	0.43	1		06/15/22 16:47	16887-00-6	
Fluoride	**<0.095**	mg/L	0.32	0.095	1		06/15/22 16:47	16984-48-8	
Sulfate	**0.54J**	mg/L	2.0	0.44	1		06/15/22 16:47	14808-79-8	B

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

QC Batch: 418188
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246280001, 40246280002, 40246280003, 40246280004, 40246280005, 40246280006, 40246280007, 40246280008

METHOD BLANK: 2408454 Matrix: Water
Associated Lab Samples: 40246280001, 40246280002, 40246280003, 40246280004, 40246280005, 40246280006, 40246280007, 40246280008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	<3.0	10.0	06/16/22 10:22	
Calcium	ug/L	<76.2	254	06/16/22 10:22	
Selenium	ug/L	<0.32	1.1	06/16/22 10:22	

LABORATORY CONTROL SAMPLE: 2408455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	250	230	92	85-115	
Calcium	ug/L	10000	9650	96	85-115	
Selenium	ug/L	250	271	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2408456 2408457

Parameter	Units	40246280006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	31.6	250	250	288	290	103	103	75-125	1	20	
Calcium	ug/L	26500	10000	10000	35900	36600	94	100	75-125	2	20	
Selenium	ug/L	<0.32	250	250	274	280	110	112	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2408458 2408459

Parameter	Units	40246369001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	127	250	250	340	336	85	84	75-125	1	20	
Calcium	ug/L	43700	10000	10000	53300	54400	96	106	75-125	2	20	
Selenium	ug/L	<0.32	250	250	264	272	106	109	75-125	3	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: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

QC Batch: 418028 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246280001, 40246280002, 40246280003, 40246280004, 40246280005, 40246280006, 40246280007, 40246280008

METHOD BLANK: 2407432 — Matrix: Water
Associated Lab Samples: 40246280001, 40246280002, 40246280003, 40246280004, 40246280005, 40246280006, 40246280007, 40246280008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	06/10/22 14:24	

LABORATORY CONTROL SAMPLE: 2407433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	555	590	106	80-120	

SAMPLE DUPLICATE: 2407434

Parameter	Units	40246217006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	426	440	3	10	

SAMPLE DUPLICATE: 2407435

Parameter	Units	40246217007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	738	760	3	10	

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: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

QC Batch: 418275
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246280001, 40246280002, 40246280003, 40246280004, 40246280005, 40246280006, 40246280007, 40246280008

METHOD BLANK: 2408832 Matrix: Water
Associated Lab Samples: 40246280001, 40246280002, 40246280003, 40246280004, 40246280005, 40246280006, 40246280007, 40246280008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	06/15/22 11:31	
Fluoride	mg/L	<0.095	0.32	06/15/22 11:31	
Sulfate	mg/L	0.54J	2.0	06/15/22 11:31	

LABORATORY CONTROL SAMPLE: 2408833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.8	99	90-110	
Fluoride	mg/L	2	2.0	99	90-110	
Sulfate	mg/L	20	19.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2408834 2408835

Parameter	Units	40246170001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	49.5	100	100	159	159	110	110	90-110	0	15	
Fluoride	mg/L	<0.48	10	10	11.1	11.2	109	110	90-110	0	15	
Sulfate	mg/L	9.5J	100	100	117	117	107	107	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2408836 2408837

Parameter	Units	40246330004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1820	2000	2000	3920	3900	105	104	90-110	1	15	
Fluoride	mg/L	<9.5	200	200	210	210	105	105	90-110	0	15	
Sulfate	mg/L	1050	2000	2000	3130	3110	104	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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QUALIFIERS

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

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

B Analyte was detected in the associated method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WESTON ONSITE CCR SITE-JUNE 22
Pace Project No.: 40246280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246280001	**OW-45**	EPA 200.8	418188	EPA 200.8	418279
40246280002	**OW-46**	EPA 200.8	418188	EPA 200.8	418279
40246280003	**OW-47R**	EPA 200.8	418188	EPA 200.8	418279
40246280004	**OW-48**	EPA 200.8	418188	EPA 200.8	418279
40246280005	**OW-49**	EPA 200.8	418188	EPA 200.8	418279
40246280006	**OW-50**	EPA 200.8	418188	EPA 200.8	418279
40246280007	**QA/QC1**	EPA 200.8	418188	EPA 200.8	418279
40246280008	**EB1**	EPA 200.8	418188	EPA 200.8	418279
40246280001	**OW-45**	SM 2540C	418028		
40246280002	**OW-46**	SM 2540C	418028		
40246280003	**OW-47R**	SM 2540C	418028		
40246280004	**OW-48**	SM 2540C	418028		
40246280005	**OW-49**	SM 2540C	418028		
40246280006	**OW-50**	SM 2540C	418028		
40246280007	**QA/QC1**	SM 2540C	418028		
40246280008	**EB1**	SM 2540C	418028		
40246280001	**OW-45**	EPA 300.0	418275		
40246280002	**OW-46**	EPA 300.0	418275		
40246280003	**OW-47R**	EPA 300.0	418275		
40246280004	**OW-48**	EPA 300.0	418275		
40246280005	**OW-49**	EPA 300.0	418275		
40246280006	**OW-50**	EPA 300.0	418275		
40246280007	**QA/QC1**	EPA 300.0	418275		
40246280008	**EB1**	EPA 300.0	418275		

959272

40246280

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical™ www.pacelabs.com

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wisconsin Public Service Corp.	Report To:	Christy Walker	Attention:	Accounts Payable
Address:	700 North Adams Street	Copy To:		Company Name:	WEC Energy Group
	Green Bay, WI 54307			Address:	PO Box 19800, Green Bay, WI
Email To:	Christina.Walker@we-energies.com	Purchase Order No.:	4700004930	Pace Quote Reference:	
Phone:	(414) 221-2835 Fax: (920) 433-4916	Project Name:	Weston Onsite CCR Site - June 2022	Pace Project Manager:	Brian Basten
Requested Due Date/TAT:	Normal	Project Number:		Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: WI

Requested Analysis Filtered (Y/N)

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: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total Dissolved Solids	Chloride - EPA 300	Sulfate - EPA 300	Flouride - EPA 300	Boron - EPA 6020	Selenium - EPA 200.8	Calcium - EPA 6020	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																				N	N	N	N	N	N	N		
1	OW-45		WW	G	—	—	6-8	1033		3	2		1							X	X	X	X	X	X	X	N	001
2	OW-46		WW	G	—	—	6-8	1123		3	2		1							X	X	X	X	X	X	X	N	002
3	OW-47R		WW	G	—	—	6-8	1220		3	2		1							X	X	X	X	X	X	X	N	003
4	OW-48		WW	G	—	—	6-8	1257		3	2		1							X	X	X	X	X	X	X	N	004
5	OW-49		WW	G	—	—	6-8	1422		3	2		1							X	X	X	X	X	X	X	N	005
6	OW-50		WW	G	—	—	6-8	1556		3	2		1							X	X	X	X	X	X	X	N	006
7	QA/QC1		WW	G	—	—	6-8	—		3	2		1							X	X	X	X	X	X	X	N	007
8	EB1		WW	G	—	—	6-8	1325		3	2		1							X	X	X	X	X	X	X	N	008
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	KEL	6-9-22	1650		6/9/22	1650	2.1 / 1.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Appelkamp

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 6-9-22

*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 Preservation Receipt Form

Client Name: Wisconsin Public Project # 402446280

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

Initial when completed: MP Date/ Time:

Lab Lot# of pH paper: 100311Z Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001										2		1																		X		2.5 / 5 / 10
002										2		1																		X		2.5 / 5 / 10
003										2		1																		X		2.5 / 5 / 10
004										2		1																		X		2.5 / 5 / 10
005										2		1																		X		2.5 / 5 / 10
006										2		1																		X		2.5 / 5 / 10
007										2		1																		X		2.5 / 5 / 10
008										2		1																		X		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

6/9/22 2 1 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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40246280

40246280

Client Name: Wisconsin Public Service

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 - 116 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2°/1° /Corr: 2.1°/1.1°

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 6/9/22 Initials: MP

Labeled By Initials: AJ

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

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. proj# 6/9/22 MP
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

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To: Eric Kovatch
PSB Annex A231

From: WEC Business Services
Laboratory Services PSBA-A070
WDNR Cert # 241329000

Report Date: Friday, January 6, 2023

The following are the analytical results for samples received by Laboratory Services on 12/30/2022 :

Sample Description: **OW-45 Weston Onsite Ash Landfill - GW Monitoring Wells**
Sample ID: AE64340 Serial/Impact ID:
Sample Collector: ROBERT E LEE Sample Collection Date: 12/5/22 Collection Time: 10:23

Parameter	Result	LOD	Units	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	27.95	0.05	feet		H2OD	12/5/22	CMA
Field Temperature	9.4	0.1	Degrees C		TEMP	12/5/22	CMA
Field Conductivity	388	0	umhos		FCOND25	12/5/22	CMA
Field pH	6.4	0.1	Units		FIELDPH	12/5/22	CMA
Total Boron	0.0316	0.0173	mg/L	J	EPA 200.7	12/8/22	020
Total Calcium	24.9	0.114	mg/L		EPA 200.7	12/8/22	020
Dissolved Boron	29.0	17.3	ug/L	J	EPA 200.7	12/8/22	020
Dissolved Calcium	24400	114	ug/L		EPA 200.7	12/8/22	020
Dissolved Magnesium	5450	182	ug/L		EPA 200.7	12/8/22	020
Dissolved Potassium	1980	325	ug/L		EPA 200.7	12/8/22	020
Dissolved Sodium	40100	350	ug/L		EPA 200.7	12/8/22	020
Dissolved Selenium	0.56	0.32	ug/L	J	EPA 200.8	12/16/22	020
Total Filtered Alkalinity as CaCO3	51.4	5	mg/l		Std Mtd 2320 B	12/12/22	020
Carbonate Ion	Less Than	5.0	mg/L		CO3	12/12/22	020
Bicarbonate Ion	51.4	5.0	mg/L		HCO3	12/12/22	020
Total Dissolved Solids	228	8.7	mg/L		Std Mtd 2540 C	12/7/22	020
Total Chloride	75.6	2.2	mg/L		EPA 300.0	12/12/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	12/9/22	020
Total Sulfate	11.4	0.44	mg/L		EPA 300.0	12/9/22	020
Dissolved Chloride	74.4	2.2	mg/L		EPA 300.0	12/15/22	020
Dissolved Sulfate	10.7	2.2	mg/L		EPA 300.0	12/15/22	020
Dissolved Oxygen-Field	10.5	0.1	mg/l		FIELDDO	12/5/22	CMA
Turbidity	2.19	0.1	NTU'S		EPA 180.1	12/5/22	CMA
Redox Potential	195	1	mV		ASTM D1498-93	12/5/22	CMA

Sample Description: **QAQC1 Weston Onsite Ash Landfill - GW Monitoring Wells**
Sample ID: AE64341 Serial/Impact ID:
Sample Collector: ROBERT E LEE Sample Collection Date: 12/5/22 Collection Time: 10:23

Parameter	Result	LOD	Units	Result Flag	Analysis Method	Analysis Date	Analyst
Total Boron	0.0318	0.0173	mg/L	J	EPA 200.7	12/8/22	020
Total Calcium	24.6	0.114	mg/L		EPA 200.7	12/8/22	020
Dissolved Boron	28.2	17.3	ug/L	J	EPA 200.7	12/8/22	020
Dissolved Calcium	25200	114	ug/L		EPA 200.7	12/8/22	020
Dissolved Magnesium	5660	182	ug/L		EPA 200.7	12/8/22	020
Dissolved Potassium	2040	325	ug/L		EPA 200.7	12/8/22	020
Dissolved Sodium	41300	350	ug/L		EPA 200.7	12/8/22	020
Dissolved Selenium	0.62	0.32	ug/L	J	EPA 200.8	12/16/22	020

Total Filtered Alkalinity as CaCO3	51.5	5.0	mg/l		Std Mtd 2320 B	12/12/22	020
Carbonate Ion	Less Than	5.0	mg/L		CO3	12/12/22	020
Bicarbonate Ion	51.5	5.0	mg/L		HCO3	12/12/22	020
Total Dissolved Solids	214	8.7	mg/L		Std Mtd 2540 C	12/7/22	020
Total Chloride	74.5	2.2	mg/L		EPA 300.0	12/12/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	12/9/22	020
Total Sulfate	11.4	0.44	mg/L		EPA 300.0	12/9/22	020
Dissolved Chloride	74.9	2.2	mg/L		EPA 300.0	12/15/22	020
Dissolved Sulfate	10.9	2.2	mg/L		EPA 300.0	12/15/22	020

Sample Description: **OW-46 Weston Onsite Ash Landfill - GW Monitoring Wells**
Sample ID: AE64342 Serial/Impact ID:
Sample Collector: ROBERT E LEE Sample Collection Date: 12/5/22 Collection Time: 11:44

Parameter	Result	LOD	Units	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	29.23	0.05	feet		H2OD	12/5/22	CMA
Field Temperature	9.5	0.1	Degrees C		TEMP	12/5/22	CMA
Field Conductivity	252	0	umhos		FCOND25	12/5/22	CMA
Field pH	6.5	0.1	Units		FIELDPH	12/5/22	CMA
Total Boron	0.0317	0.0173	mg/L	J	EPA 200.7	12/8/22	020
Total Calcium	10.8	0.114	mg/L		EPA 200.7	12/8/22	020
Dissolved Calcium	11000	114	ug/L		EPA 200.7	12/8/22	020
Dissolved Magnesium	2640	182	ug/L		EPA 200.7	12/8/22	020
Dissolved Potassium	1490	325	ug/L		EPA 200.7	12/8/22	020
Dissolved Sodium	34900	350	ug/L		EPA 200.7	12/8/22	020
Total Filtered Alkalinity as CaCO3	43.1	5.0	mg/l		Std Mtd 2320 B	12/12/22	020
Carbonate Ion	Less Than	5.0	mg/L		CO3	12/12/22	020
Bicarbonate Ion	41.3	5.0	mg/L		HCO3	12/12/22	020
Total Dissolved Solids	142	8.7	mg/L		Std Mtd 2540 C	12/7/22	020
Total Chloride	40.9	0.43	mg/L		EPA 300.0	12/9/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	12/9/22	020
Total Sulfate	10.5	0.44	mg/L		EPA 300.0	12/9/22	020
Dissolved Chloride	39.7	0.43	mg/L		EPA 300.0	12/15/22	020
Dissolved Sulfate	10.0	0.44	mg/L		EPA 300.0	12/15/22	020
Redox Potential	194	1	mV		ASTM D1498-93	12/5/22	CMA
Turbidity	2.53	0.1	NTU'S		EPA 180.1	12/5/22	CMA
Dissolved Oxygen-Field	9.92	0.1	mg/l		FIELDDO	12/5/22	CMA

Sample Description: **OW-47R Weston Onsite Ash Landfill - GW Monitoring Wells**
Sample ID: AE64343 Serial/Impact ID:
Sample Collector: ROBERT E LEE Sample Collection Date: 12/5/22 Collection Time: 12:30

Parameter	Result	LOD	Units	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	38.79	0.05	feet		H2OD	12/5/22	CMA
Field Temperature	9.8	0.1	Degrees C		TEMP	12/5/22	CMA
Field Conductivity	412	0	umhos		FCOND25	12/5/22	CMA
Field pH	6.1	0.1	Units		FIELDPH	12/5/22	CMA
Total Boron	0.111	0.0173	mg/L		EPA 200.7	12/8/22	020
Total Calcium	29.9	0.114	mg/L		EPA 200.7	12/8/22	020
Dissolved Calcium	106	114	ug/L		EPA 200.7	12/8/22	020
Dissolved Magnesium	28700	182	ug/L		EPA 200.7	12/8/22	020
Dissolved Potassium	2210	325	ug/L		EPA 200.7	12/8/22	020
Dissolved Sodium	36400	350	ug/L		EPA 200.7	12/8/22	020
Total Filtered Alkalinity as CaCO3	33.6	5.0	mg/l		Std Mtd 2320 B	12/12/22	020
Carbonate Ion	Less Than	5.0	mg/L		CO3	12/12/22	020
Bicarbonate Ion	33.6	5.0	mg/L		HCO3	12/12/22	020

Total Dissolved Solids	240	8.7	mg/L	Std Mtd 2540 C	12/7/22	020
Total Chloride	75.4	2.2	mg/L	EPA 300.0	12/12/22	020
Total Fluoride	Less than	0.095	mg/L	EPA 300.0	12/9/22	020
Total Sulfate	30.5	0.44	mg/L	EPA 300.0	12/9/22	020
Dissolved Chloride	78.3	2.2	mg/L	EPA 300.0	12/15/22	020
Dissolved Sulfate	30.7	2.2	mg/L	EPA 300.0	12/15/22	020
Dissolved Oxygen-Field	7.13	0.1	mg/l	FIELDDO	12/5/22	CMA
Redox Potential	209	1	mV	ASTM D1498-93	12/5/22	CMA
Turbidity	1.20	0.1	NTU'S	EPA 180.1	12/5/22	CMA

Sample Description: **OW-48 Weston Onsite Ash Landfill - GW Monitoring Wells**
Sample ID: AE64344 Serial/Impact ID:
Sample Collector: ROBERT E LEE Sample Collection Date: 12/5/22 Collection Time: 13:12

Parameter	Result	LOD	Units	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	32.01	0.05	feet		H2OD	12/5/22	CMA
Field Temperature	9.9	0.1	Degrees C		TEMP	12/5/22	CMA
Field Conductivity	480	0	umhos		FCOND25	12/5/22	CMA
Field pH	6.3	0.1	Units		FIELDPH	12/5/22	CMA
Total Boron	0.300	0.0173	mg/L		EPA 200.7	12/8/22	020
Total Calcium	33.3	0.114	mg/L		EPA 200.7	12/8/22	020
Dissolved Calcium	32300	114	ug/L		EPA 200.7	12/8/22	020
Dissolved Magnesium	4970	182	ug/L		EPA 200.7	12/8/22	020
Dissolved Potassium	2770	325	ug/L		EPA 200.7	12/8/22	020
Dissolved Sodium	53500	350	ug/L		EPA 200.7	12/8/22	020
Total Filtered Alkalinity as CaCO3	50.6	5.0	mg/l		Std Mtd 2320 B	12/12/22	020
Carbonate Ion	Less Than	5.0	mg/L		CO3	12/12/22	020
Bicarbonate Ion	50.6	5.0	mg/L		HCO3	12/12/22	020
Total Dissolved Solids	284	8.7	mg/L		Std Mtd 2540 C	12/7/22	020
Total Chloride	53.0	0.43	mg/L		EPA 300.0	12/9/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	12/9/22	020
Total Sulfate	82.5	2.2	mg/L		EPA 300.0	12/12/22	020
Dissolved Chloride	51.7	2.2	mg/L		EPA 300.0	12/15/22	020
Dissolved Sulfate	86.7	2.2	mg/L		EPA 300.0	12/15/22	020
Dissolved Oxygen-Field	8.34	0.1	mg/l		FIELDDO	12/5/22	CMA
Redox Potential	210	1	mV		ASTM D1498-93	12/5/22	CMA
Turbidity	8.29	0.1	NTU'S		EPA 180.1	12/5/22	CMA

Sample Description: **OW-49 Weston Onsite Ash Landfill - GW Monitoring Wells**
Sample ID: AE64345 Serial/Impact ID:
Sample Collector: ROBERT E LEE Sample Collection Date: 12/5/22 Collection Time: 14:15

Parameter	Result	LOD	Units	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	31.00	0.05	feet		H2OD	12/5/22	CMA
Field Temperature	10	0.1	Degrees C		TEMP	12/5/22	CMA
Field Conductivity	573	0	umhos		FCOND25	12/5/22	CMA
Field pH	6.0	0.1	Units		FIELDPH	12/5/22	CMA
Total Boron	0.222	0.0173	mg/L		EPA 200.7	12/8/22	020
Total Calcium	32.8	0.114	mg/L		EPA 200.7	12/8/22	020
Dissolved Calcium	32200	114	ug/L		EPA 200.7	12/8/22	020
Dissolved Magnesium	4960	182	ug/L		EPA 200.7	12/8/22	020
Dissolved Potassium	3110	325	ug/L		EPA 200.7	12/8/22	020
Dissolved Sodium	69900	350	ug/L		EPA 200.7	12/8/22	020
Total Filtered Alkalinity as CaCO3	44.1	5.0	mg/l		Std Mtd 2320 B	12/12/22	020
Carbonate Ion	Less Than	5.0	mg/L		CO3	12/12/22	020
Bicarbonate Ion	44.1	5.0	mg/L		HCO3	12/12/22	020

Total Dissolved Solids	324	8.7	mg/L	Std Mtd 2540 C	12/7/22	020
Total Chloride	85.9	2.2	mg/L	EPA 300.0	12/12/22	020
Total Fluoride	Less than	0.095	mg/L	EPA 300.0	12/9/22	020
Total Sulfate	82.1	2.2	mg/L	EPA 300.0	12/12/22	020
Dissolved Chloride	81.4	2.2	mg/L	EPA 300.0	12/15/22	020
Dissolved Sulfate	80.0	2.2	mg/L	EPA 300.0	12/15/22	020
Turbidity	1.51	0.1	NTU'S	EPA 180.1	12/5/22	CMA
Redox Potential	220	1	mV	ASTM D1498-93	12/5/22	CMA
Dissolved Oxygen-Field	7.56	0.1	mg/l	FIELDDO	12/5/22	CMA

Sample Description: **OW-50 Weston Onsite Ash Landfill - GW Monitoring Wells**
Sample ID: AE64346 Serial/Impact ID:
Sample Collector: ROBERT E LEE Sample Collection Date: 12/5/22 Collection Time: 14:55

Parameter	Result	LOD	Units	Result Flag	Analysis Method	Analysis Date	Analyst
Field Water Level	31.44	0.05	feet		H2OD	12/5/22	CMA
Field Temperature	9.7	0.1	Degrees C		TEMP	12/5/22	CMA
Field Conductivity	353	0	umhos		FCOND25	12/5/22	CMA
Field pH	5.6	0.1	Units		FIELDPH	12/5/22	CMA
Total Boron	0.0358	0.0173	mg/L	J	EPA 200.7	12/8/22	020
Total Calcium	28.4	0.114	mg/L		EPA 200.7	12/8/22	020
Dissolved Calcium	28000	114	ug/L		EPA 200.7	12/8/22	020
Dissolved Magnesium	6820	182	ug/L		EPA 200.7	12/8/22	020
Dissolved Potassium	2220	325	ug/L		EPA 200.7	12/8/22	020
Dissolved Sodium	25700	350	ug/L		EPA 200.7	12/8/22	020
Total Filtered Alkalinity as CaCO3	33.9	5.0	mg/l		Std Mtd 2320 B	12/12/22	020
Carbonate Ion	Less Than	5.0	mg/L		CO3	12/12/22	020
Bicarbonate Ion	33.9	5.0	mg/L		HCO3	12/12/22	020
Total Dissolved Solids	220	8.7	mg/L		Std Mtd 2540 C	12/7/22	020
Total Chloride	68.0	2.2	mg/L		EPA 300.0	12/30/22	020
Total Fluoride	Less Than	0.48	mg/L		EPA 300.0	12/30/22	020
Total Sulfate	20.7	2.2	mg/L		EPA 300.0	12/30/22	020
Dissolved Chloride	67.0	2.2	mg/L		EPA 300.0	12/15/22	020
Dissolved Sulfate	21.0	2.2	mg/L		EPA 300.0	12/15/22	020
Dissolved Oxygen-Field	5.01	0.1	mg/l		FIELDDO	12/5/22	CMA
Redox Potential	233	1	mV		ASTM D1498-93	12/5/22	CMA
Turbidity	2.88	0.1	NTU'S		EPA 180.1	12/5/22	CMA

Analytical samples collected for monitoring programs other than 40 C.F.R. § 257 have been redacted from this lab report.

Analytical samples collected for monitoring programs other than 40 C.F.R. § 257 have been redacted from this lab report.

Sample Description: **EB1 Weston Onsite Ash Landfill - GW Monitoring Wells**

Sample ID: AE64352 Serial/Impact ID:

Sample Collector: ROBERT E LEE Sample Collection Date: 12/5/22 Collection Time: 15:20

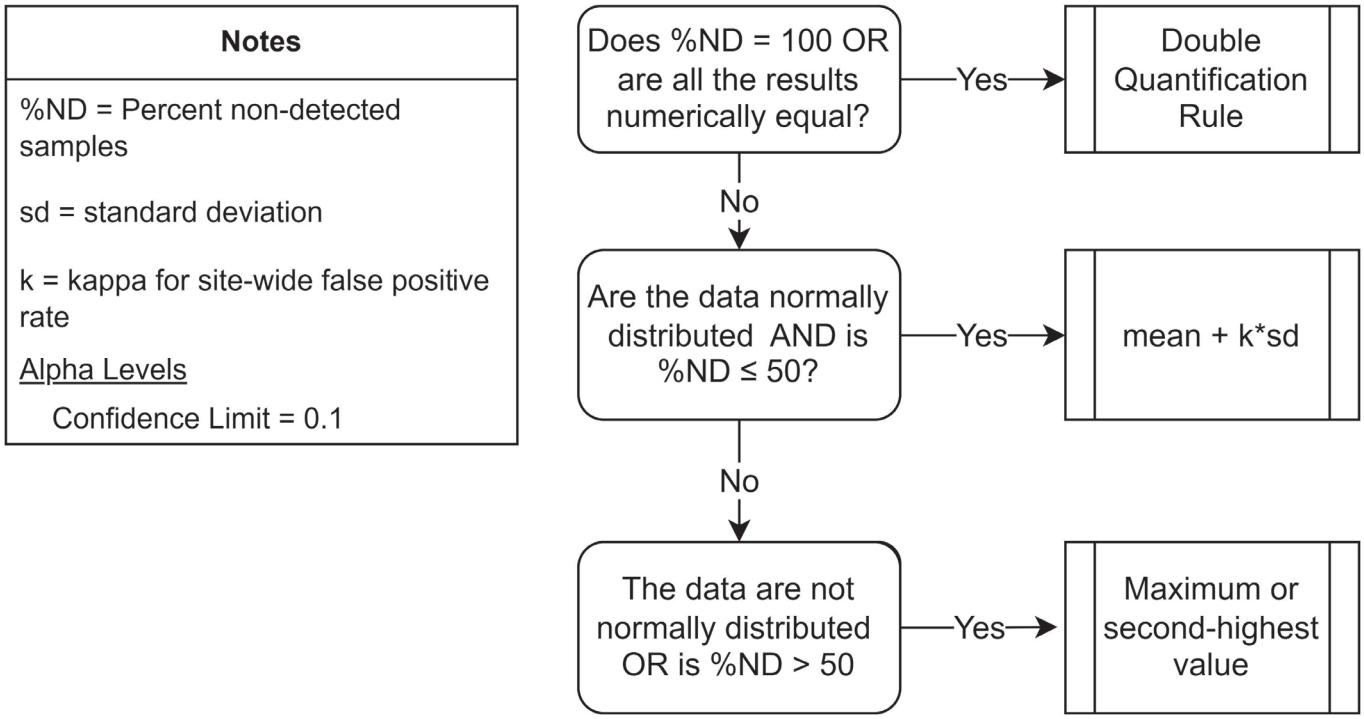
Parameter	Result	LOD	Units	Result Flag	Analysis Method	Analysis Date	Analyst
Field Temperature	6.3	0.1	Degrees C		TEMP	12/5/22	CMA
Field Conductivity	2	0	umhos		FCOND25	12/5/22	CMA
Field pH	6.0	0.1	Units		FIELDPH	12/5/22	CMA
Total Boron	0.0187	0.0173	mg/L	J	EPA 200.7	12/8/22	020
Total Calcium	Less Than	0.114	mg/L		EPA 200.7	12/8/22	020
Dissolved Boron	Less Than	17.3	ug/L		EPA 200.7	12/8/22	020
Dissolved Calcium	Less Than	114	ug/L		EPA 200.7	12/8/22	020
Dissolved Magnesium	Less Than	182	ug/L		EPA 200.7	12/8/22	020
Dissolved Potassium	Less Than	325	ug/L		EPA 200.7	12/8/22	020
Dissolved Sodium	Less Than	350	ug/L		EPA 200.7	12/8/22	020
Dissolved Selenium	Less Than	0.32	ug/L		EPA 200.8	12/16/22	020
Total Dissolved Solids	Less Than	8.7	mg/L		Std Mtd 2540 C	12/7/22	020
Total Chloride	Less Than	0.43	mg/L		EPA 300.0	12/30/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	12/30/22	020
Total Sulfate	Less Than	0.44	mg/L		EPA 300.0	12/30/22	020
Dissolved Chloride	Less Than	0.043	mg/L		EPA 300.0	12/15/22	020
Dissolved Sulfate	Less Than	0.44	mg/L		EPA 300.0	12/15/22	020
Total Filtered Alkalinity as CaCO3	Less Than	5.0	mg/l	H3	Std Mtd 2320 B	1/4/23	020
Carbonate Ion	Less Than	5.0	mg/L		CO3	1/4/23	020
Bicarbonate Ion	Less Than	5.0	mg/L		HCO3	1/4/23	020
Dissolved Oxygen-Field	11.2	0.1	mg/l		FIELDDO	12/5/22	CMA
Redox Potential	143	1	mV		ASTM D1498-93	12/5/22	CMA
Turbidity	0.23	0.1	NTU'S		EPA 180.1	12/5/22	CMA

If there are any questions concerning this report, please contact Laboratory Services at (414) 221-4595.

Sample Comments:

Sample analyzed by Pace Analytical (Lab Cert #405132750).

APPENDIX B
STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND VALUES



When data are not normally distributed or %ND > 50, the maximum value is used if the background sample size is < 60. Where the background sample size is ≥ 60, the achievable per-constituent false positive rates for the maximum and second-highest background values will be compared, and the background value with the achievable per-constituent false positive rate that is closest to, but does not exceed, the target per-constituent false positive rate of 0.015% is used.