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1940102327

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WESTON DISPOSAL SITE NO. 3 LANDFILL

**2022 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
WESTON DISPOSAL SITE NO. 3 LANDFILL**

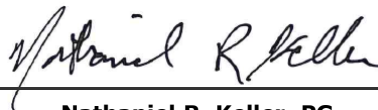
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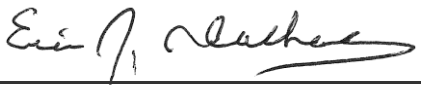
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ACRONYMS AND ABBREVIATIONS

§	Section
40 C.F.R.	Title 40 of the Code of Federal Regulations
ASD	Alternate Source Demonstration
Ca	calcium
CCR	Coal Combustion Residuals
Cl	chloride
GMP	Groundwater Monitoring Plan
GWPS	groundwater protection standard
mg/L	milligrams per liter
NA	not applicable
No.	number
NRT/OBG	Natural Resource Technology, an OBG Company
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SO ₄	sulfate
SSI	statistically significant increase
TBD	to be determined
TDS	total dissolved solids
WDS3	Weston Disposal Site No. 3 Landfill

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 Disposal Site Number (No.) 3 (WDS3) Landfill located in the Town of Knowlton, Wisconsin.

Groundwater is being monitored at the WDS3 Landfill 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 WDS3 Landfill. The following constituents and wells had SSIs reported in 2022:

- Calcium (Ca) – LS-100, LS-105, and LS-107
- Chloride (Cl) – LS-107
- Sulfate (SO₄) – LS-100, LS-105, and LS-107
- Total Dissolved Solids (TDS) – LS-105 and LS-107

Alternate Source Demonstrations (ASDs) prepared in prior years for these parameters and monitoring locations provide justification that the SSIs observed during the Detection Monitoring Program were not due to a release from the CCR unit but were either from naturally occurring conditions (*e.g.*, natural variation in groundwater quality), a result of statistical procedures used to evaluate the results, or potential anthropogenic impacts in the area surrounding the WDS3 Landfill.

The WDS3 Landfill remains 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 Disposal Site No. 3 (WDS3) Landfill located in the Town of Knowlton, 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 WDS3 Landfill for calendar year 2022.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

No changes have occurred to the monitoring program status in calendar year 2022 and the WDS3 Landfill remains 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, Weston Disposal Site No. 3 Landfill* (Natural Resource Technology, an OBG Company [NRT/OBG], 2017). 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 Disposal Site No. 3 Landfill* (NRT/OBG, 2017) to determine any SSIs for Appendix III parameters relative to background concentrations. Statistical background values are provided in **Table 3**. A flow chart showing the statistical methodology for determining background values is included as **Appendix B**.

Statistical evaluation of analytical data, including SSI determinations, from the Detection Monitoring Program for October 26, 2021 (Detection Monitoring Round 9) and April 12, 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 Round 9 and Round 10 groundwater sampling analytical data. Additional information regarding SSI parameters and well locations is provided in **Table A**.

The ASDs dated April 15, 2018 and July 7, 2021 for the Weston Disposal Site No. 3 Landfill provided a description, data, and pertinent information supporting an alternate source for the wells and parameters with SSIs in Detection Monitoring Rounds 9-10. 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	October 26, 2021	December 2, 2021	Appendix III	LS-100 (Ca, SO ₄) LS-105 (Ca, SO ₄ , TDS) LS-107 (Ca, Cl, SO ₄ , TDS)	March 2, 2022	April 15, 2018 July 7, 2021
10	April 12, 2022	May 5, 2022	Appendix III	LS-100 (Ca, SO ₄) LS-105 (Ca, SO ₄ , TDS) LS-107 (Ca, Cl, SO ₄ , TDS)	August 3, 2022	April 15, 2018 July 7, 2021
11	October 25, 2022	December 5, 2022	Appendix III	TBD	TBD Before March 5, 2023	TBD

Notes:

NA: Not applicable

TBD: To Be Determined

¹ The April 15, 2018 and July 7, 2021 ASD for Weston Disposal Site No. 3 provided a description, data, and pertinent information supporting an alternate source for the wells and parameters with SSIs in Detection Monitoring Rounds 9-10. Data resulting in SSIs above background are consistent with analytical results observed in previous detections 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 Disposal Site No. 3 Landfill, Town of Knowlton, Wisconsin, October 3, 2017.*

Natural Resource Technology, an OBG Company (NRT/OBG), 2017. *Statistical Analysis Plan, Weston Disposal Site No. 3 Landfill, Town of Knowlton, Wisconsin, October 17, 2017.*

TABLES

TABLE 1
GROUNDWATER ELEVATIONS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 WESTON DISPOSAL SITE NO. 3 LANDFILL
 TOWN OF KNOWLTON, WI

Well ID	Well Type	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Date	Groundwater Elevation (ft NAVD88)
LS-101	Background (Upgradient)	44.72648	-89.63627	10/26/2021	1191.07
				04/12/2022	1196.87
				10/25/2022	1191.83
LS-100	Compliance (Downgradient)	44.72484	-89.63437	10/26/2021	1189.24
				04/12/2022	1192.25
				10/25/2022	1187.72
LS-105	Compliance (Downgradient)	44.72295	-89.63439	10/26/2021	1185.10
				04/12/2022	1186.37
				10/25/2022	1184.30
LS-106	Compliance (Downgradient)	44.72219	-89.63533	10/26/2021	1180.99
				04/12/2022	1181.12
				10/25/2022	1181.62
LS-107	Compliance (Downgradient)	44.72630	-89.63852	10/26/2021	1188.32
				04/12/2022	1188.79
				10/25/2022	1188.62
LS-52	Water Level Only	NA	NA	10/26/2021	1189.54
				04/12/2022	1191.17
				10/25/2022	1189.14

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

Weston Disposal Site #3 CCR
Table 2. Analytical Results - Appendix III Parameters

Date Range: 10/01/2021 to 12/31/2022

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
LS-100	10/26/2021	AE56950	0.0352	15.700	1.600	<0.095	5.6	21.100
	4/12/2022	AE60080	0.0205	17.000	1.700	<0.095	5.6	36.500
	10/25/2022	AE63596	0.0204	17.100	2.300	<0.095	5.1	15.800
LS-101	10/26/2021	AE56951	<0.0173	5.420	2.500	<0.095	5.7	2.600
	4/12/2022	AE60081	0.0092	2.700	0.590	<0.095	5.7	2.100
	10/25/2022	AE63597	<0.0173	6.300	0.490	<0.095	5.4	2.700
LS-105	10/26/2021	AE56952	0.0396	23.100	2.100	<0.095	5.9	25.200
	4/12/2022	AE60082	0.0241	22.000	1.900	<0.095	5.9	20.900
	10/25/2022	AE63598	0.0411	23.200	1.800	<0.095	5.6	25.300
LS-106	10/26/2021	AE56953	0.0226	12.500	2.400	<0.095	5.9	4.800
	4/12/2022	AE60083	0.0370	4.240	0.990	<0.095	5.7	2.100
	10/25/2022	AE63599	0.0242	17.000	2.500	<0.095	5.6	2.200
LS-107	10/26/2021	AE56954	0.0224	26.400	5.700	<0.095	5.7	42.000
	4/12/2022	AE60084	0.0215	24.600	5.100	<0.095	5.6	42.000
	10/25/2022	AE63600	0.0312	36.200	10.400	<0.095	5.3	89.100

Notes:

Exceedance of Background

Weston Disposal Site #3 CCR
Table 2. Analytical Results - Appendix III Parameters

Date Range: 10/01/2021 to 12/31/2022

Lab Methods:

Well Id	Date Sampled	Lab Id	TDS, mg/L
LS-100	10/26/2021	AE56950	90.000
	4/12/2022	AE60080	94.000
	10/25/2022	AE63596	112.000
LS-101	10/26/2021	AE56951	40.000
	4/12/2022	AE60081	38.000
	10/25/2022	AE63597	58.000
LS-105	10/26/2021	AE56952	132.000
	4/12/2022	AE60082	118.000
	10/25/2022	AE63598	160.000
LS-106	10/26/2021	AE56953	70.000
	4/12/2022	AE60083	76.000
	10/25/2022	AE63599	122.000
LS-107	10/26/2021	AE56954	134.000
	4/12/2022	AE60084	132.000
	10/25/2022	AE63600	218.000

TABLE 3**STATISTICAL BACKGROUND VALUES**

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WESTON DISPOSAL SITE NO. 3 LANDFILL

TOWN OF KNOWLTON, WISCONSIN

Parameter	Statistical Background Value (LPL/UPL)
40 C.F.R. Part 257 Appendix III	
Boron (mg/L)	0.0430
Calcium (mg/L)	12.9
Chloride (mg/L)	4.26
Fluoride (mg/L)	DQR
pH (field) (SU)	4.9/8.8
Sulfate (mg/L)	13.3
Total Dissolved Solids (mg/L)	100

Notes:

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

LPL = Lower Prediction Limit (applicable for pH only)

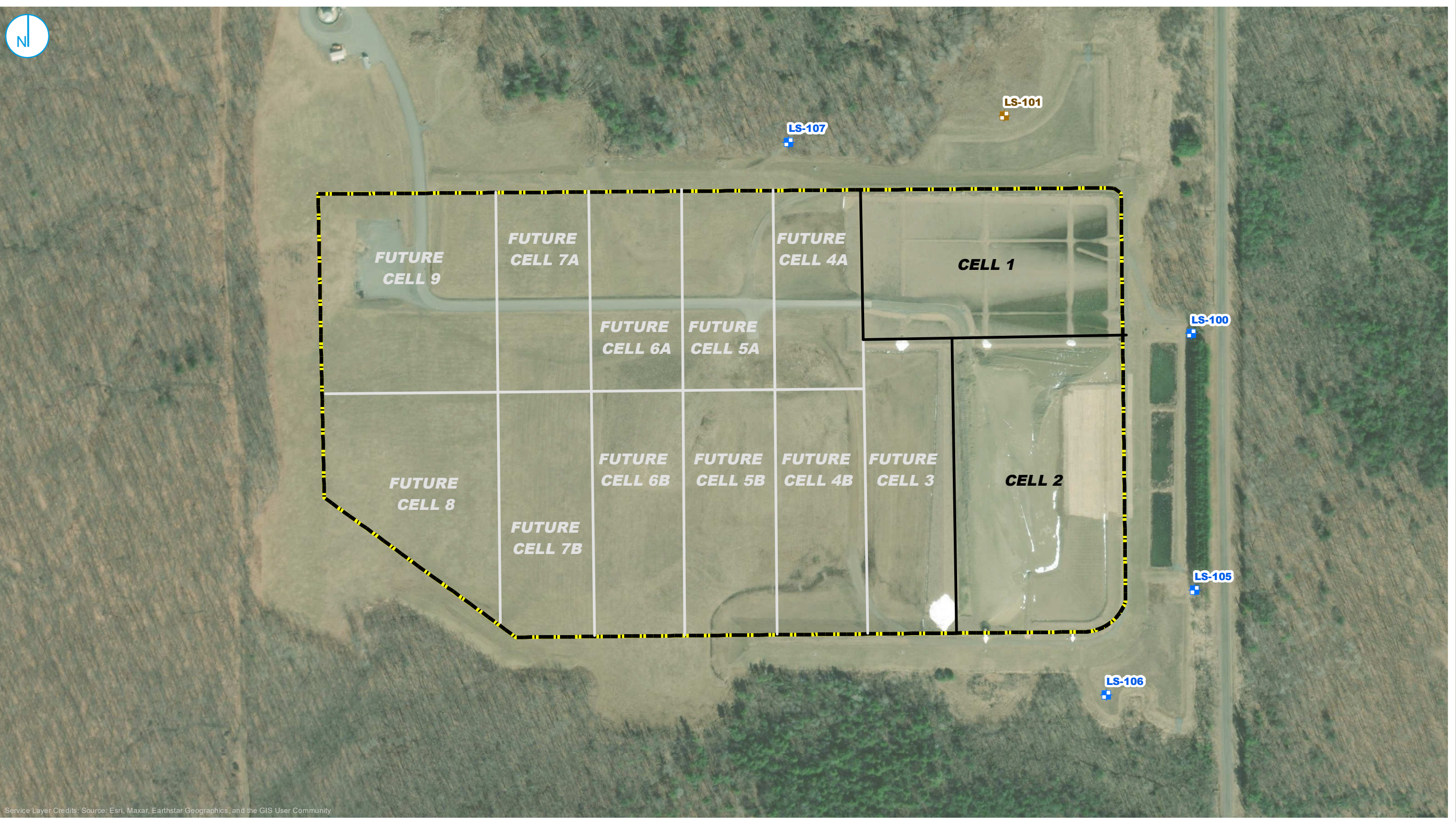
mg/L = milligrams per liter

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



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

-  CCR RULE DOWNGRAIDENT MONITORING WELL LOCATION
-  CCR RULE UPGRADIENT MONITORING WELL LOCATION
-  WESTON DISPOSAL SITE NO. 3 LANDFILL



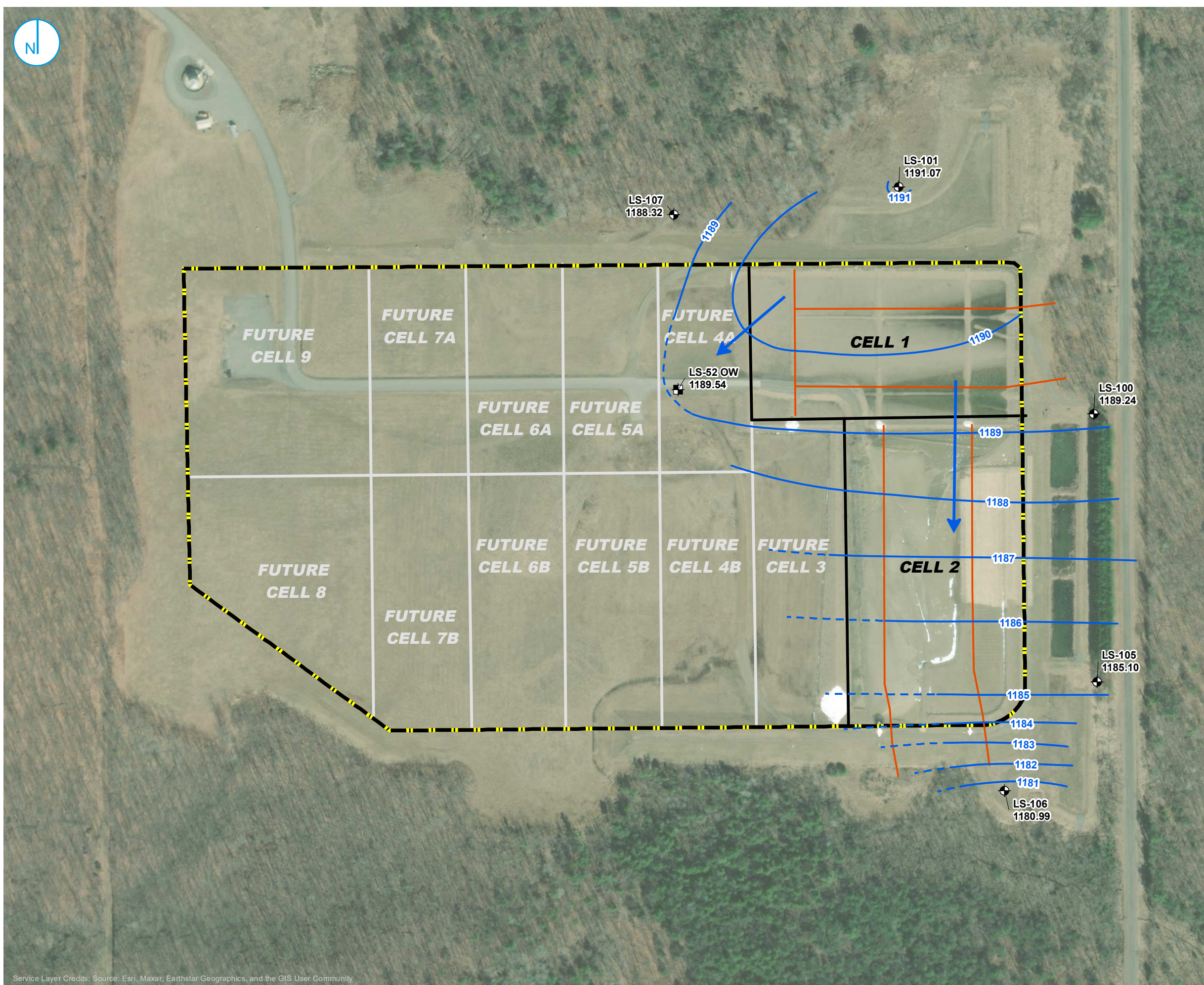
MONITORING WELL LOCATION MAP

2022 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
WESTON DISPOSAL SITE NO. 3 LANDFILL
TOWN OF KNOWLTON, WISCONSIN

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- WESTON DISPOSAL SITE NO. 3 LANDFILL
- GROUNDWATER GRADIENT CONTROL SYSTEM
- CCR RULE MONITORING WELL
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD 88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTES
 1. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

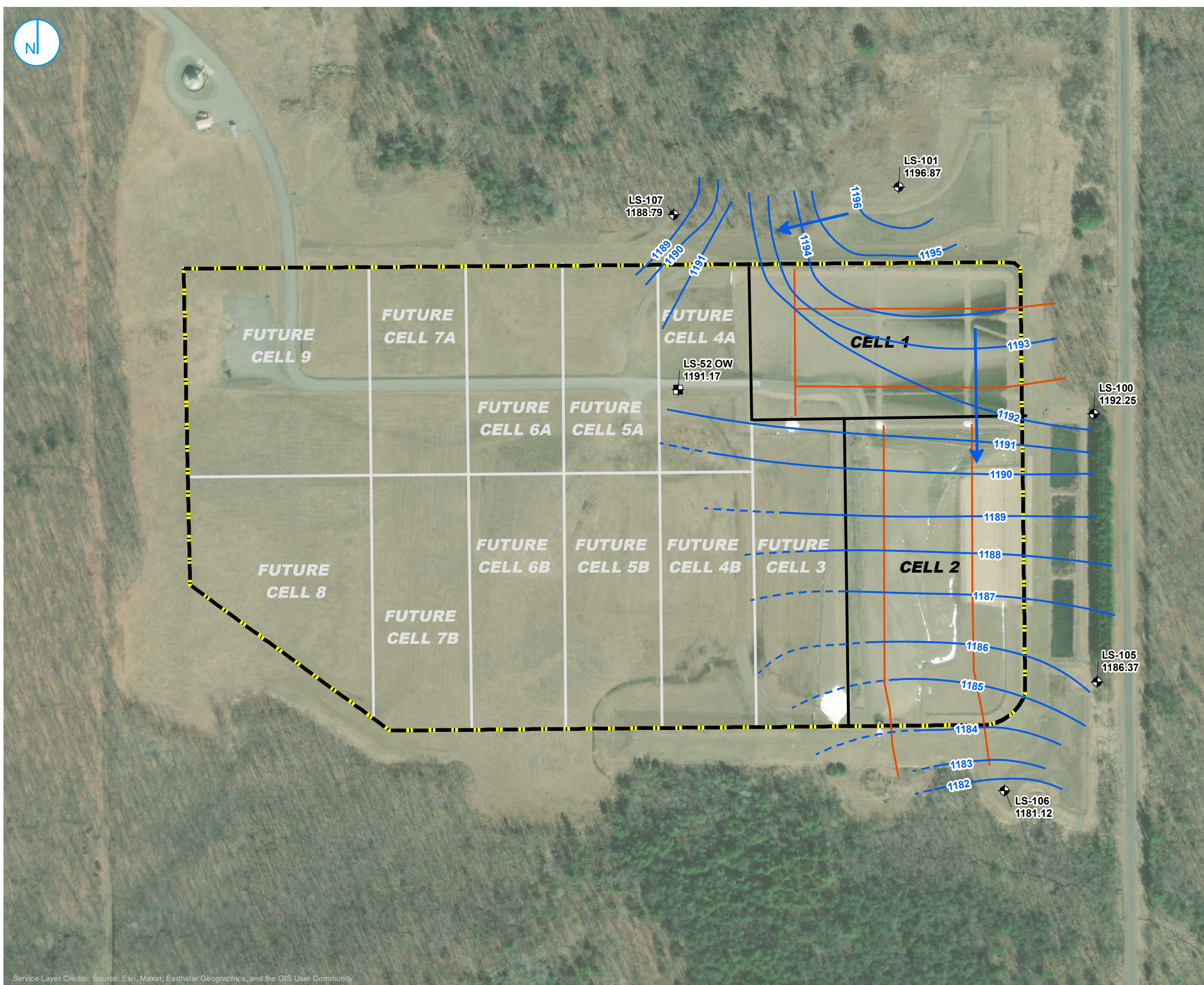
0 125 250
 Feet

POTENTIOMETRIC SURFACE MAP
 OCTOBER 26, 2021

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 WESTON DISPOSAL SITE NO. 3 LANDFILL
 TOWN OF KNOWLTON, WISCONSIN

FIGURE 2





- WESTON DISPOSAL SITE NO. 3 LANDFILL
- GROUNDWATER GRADIENT CONTROL SYSTEM
- CCR RULE MONITORING WELL
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD 88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTES
 1. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).



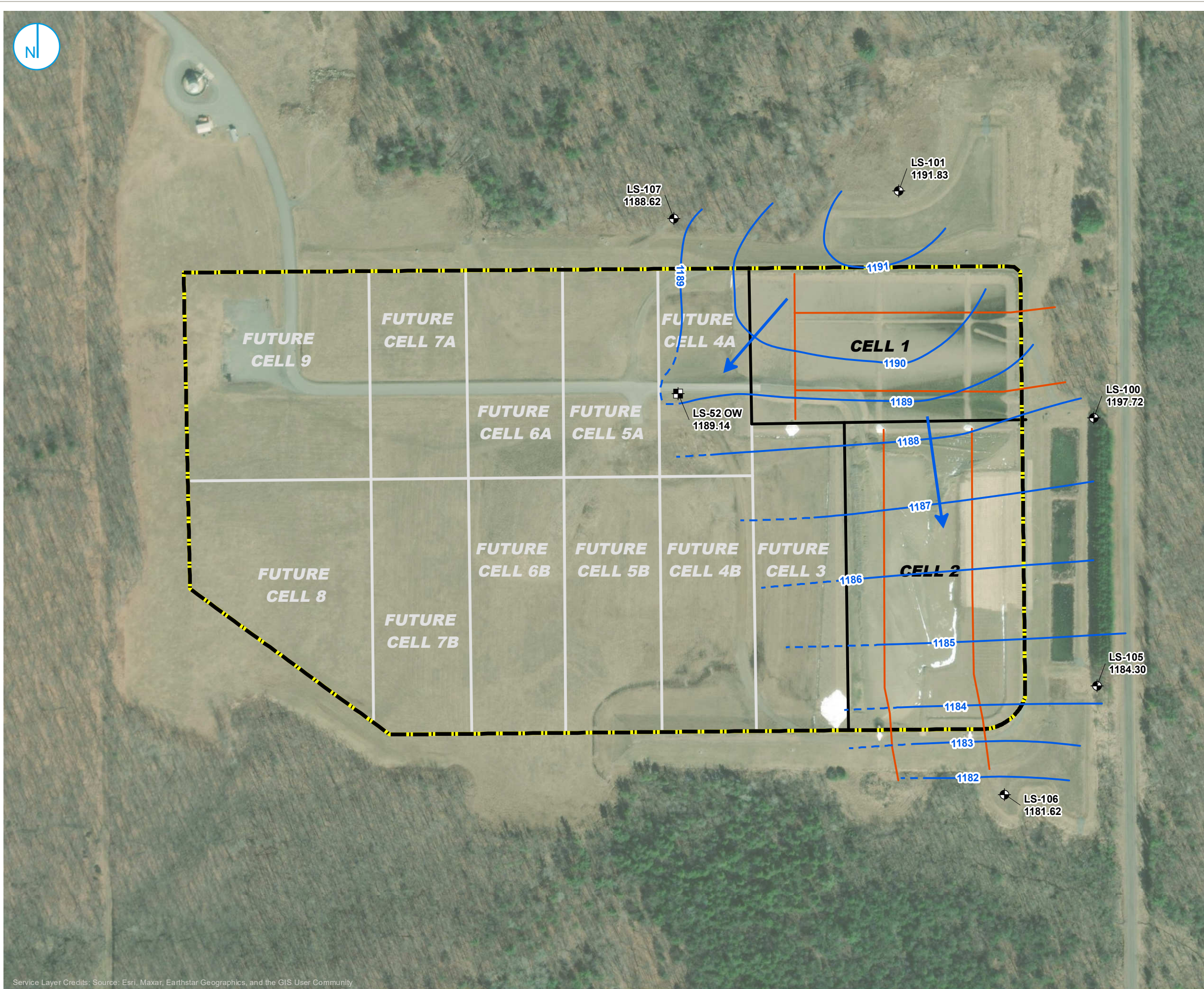
POTENTIOMETRIC SURFACE MAP
 APRIL 12, 2022

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
WESTON DISPOSAL SITE NO. 3 LANDFILL
 TOWN OF KNOWLTON, WISCONSIN

FIGURE 3

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





- WESTON DISPOSAL SITE NO. 3 LANDFILL
- GROUNDWATER GRADIENT CONTROL SYSTEM
- CCR RULE MONITORING WELL
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD 88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTES
 1. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).



POTENTIOMETRIC SURFACE MAP
OCTOBER 25, 2022

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
WESTON DISPOSAL SITE NO. 3 LANDFILL
 TOWN OF KNOWLTON, WISCONSIN

FIGURE 4



APPENDICES

APPENDIX A
LABORATORY REPORTS

To: Bob Meidl
PSB Annex A231

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



Report Date: Thursday, December 2, 2021

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

Sample Description: LS-100 Weston Disposal Site #3 - Ash Landfill CCR Well									
Sample ID: AE56950		Sample Collection Date/Time: 10/26/2021 11:19							
Sample Received: 10/29/2021		Sample Collector: CODY APPLEKAMP							
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	9.80	0.05	feet		1.0		H2OD	10/26/21	C APPLEKAMP
Field Conductivity	116	0	umhos		1.0		FCOND25	10/26/21	C APPLEKAMP
Field pH	5.6	0.1	Units	0.1	1.0		FIELDPH	10/26/21	C APPLEKAMP
Field Temperature	15.0	0.1	Degrees C		1.0		TEMP	10/26/21	C APPLEKAMP
Total Boron	35.2	17.3	ug/L	40.0	1.0	J	EPA 200.7	10/29/21	020
Total Calcium	15700	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Total Chloride	1.6	0.43	mg/L	2.0	1.0	J,X	EPA 300.0	11/9/21	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	10/29/21	020
Total Sulfate	21.1	0.44	mg/L	2.0	1.0		EPA 300.0	11/9/21	020
Dissolved Oxygen-Field	0.61	0.1	mg/l		1.0		FIELDDO	10/26/21	C APPLEKAMP
Turbidity	2.48	0.1	NTU'S		1.0	X	EPA 180.1	10/26/21	C APPLEKAMP
Redox Potential	264	1	mV		1.0		ASTM D1498-93	10/26/21	C APPLEKAMP
Total Dissolved Solids	90.0	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	10/28/21	020
Dissolved Sulfate	19.0	0.44	mg/L	2.0	1.0		EPA 300.0	11/8/21	020
Dissolved Chloride	1.5	0.43	mg/L	2.0	1.0	J,X	EPA 300.0	11/8/21	020
Dissolved Magnesium	2510	182	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Dissolved Calcium	15100	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Sodium	2610	350	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Potassium	1370	325	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Total Filtered Alkalinity as CaCO3	28.8	5.0	mg/l	10	1.0		Std Mtd 2320 B	11/4/21	020
Bicarbonate Ion	28.8	5.0	mg/L	10.0	1.0		HCO3	11/4/21	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1.0		CO3	11/4/21	020

Sample Comments:

Sample Description: LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well									
Sample ID: AE56951		Sample Collection Date/Time: 10/26/2021 10:16							
Sample Received: 10/29/2021		Sample Collector: CODY APPLEKAMP							
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	14.34	0.05	feet		1.0		H2OD	10/26/21	C APPLEKAMP
Field Conductivity	53	0	umhos		1.0		FCOND25	10/26/21	C APPLEKAMP
Field pH	5.7	0.1	Units	0.1	1.0		FIELDPH	10/26/21	C APPLEKAMP
Field Temperature	11.8	0.1	Degrees C		1.0		TEMP	10/26/21	C APPLEKAMP
Total Boron	Less Than	17.3	ug/L	40.0	1.0		EPA 200.7	10/29/21	020
Total Calcium	5420	114	ug/L	500	1.0		EPA 200.7	10/29/21	020

Report Date: Thursday, December 2, 2021

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

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**
 Sample ID: AE56951 Sample Collection Date/Time: 10/26/2021 10:16
 Sample Received: 10/29/2021 Sample Collector: CODY APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Chloride	2.5	0.43	mg/L	2.0	1.0	X	EPA 300.0	11/9/21	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	10/29/21	020
Total Sulfate	2.6	0.44	mg/L	2.0	1.0		EPA 300.0	11/9/21	020
Dissolved Oxygen-Field	5.92	0.1	mg/l		1.0		FIELDDO	10/26/21	C APPLEKAMP
Turbidity	9.33	0.1	NTU'S		1.0		EPA 180.1	10/26/21	C APPLEKAMP
Redox Potential	265	1	mV		1.0		ASTM D1498-93	10/26/21	C APPLEKAMP
Total Dissolved Solids	40.0	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	10/28/21	020
Dissolved Sulfate	2.5	0.44	mg/L	2.0	1.0		EPA 300.0	11/8/21	020
Dissolved Chloride	0.68	0.43	mg/L	2.0	1.0	J,X	EPA 300.0	11/8/21	020
Dissolved Magnesium	1120	182	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Dissolved Calcium	5470	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Sodium	3440	350	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Potassium	1510	325	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Total Filtered Alkalinity as CaCO3	22.8	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/4/21	020
Bicarbonate Ion	22.8	5.0	mg/L	10.0	1.0		HCO3	11/4/21	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1.0		CO3	11/4/21	020

Sample Comments:

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well**
 Sample ID: AE56952 Sample Collection Date/Time: 10/26/2021 12:00
 Sample Received: 10/29/2021 Sample Collector: CODY APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	5.18	0.05	feet		1.0		H2OD	10/26/21	C APPLEKAMP
Field Conductivity	207	0	umhos		1.0		FCOND25	10/26/21	C APPLEKAMP
Field pH	5.9	0.1	Units	0.1	1.0		FIELDPH	10/26/21	C APPLEKAMP
Field Temperature	14.7	0.1	Degrees C		1.0		TEMP	10/26/21	C APPLEKAMP
Total Boron	39.6	17.3	ug/L	40.0	1.0	J	EPA 200.7	10/29/21	020
Total Calcium	23100	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Total Chloride	2.1	0.43	mg/L	2.0	1.0	X	EPA 300.0	11/9/21	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	10/29/21	020
Total Sulfate	25.2	0.44	mg/L	2.0	1.0		EPA 300.0	11/9/21	020
Dissolved Oxygen-Field	0.05	0.1	mg/l		1.0		FIELDDO	10/26/21	C APPLEKAMP
Turbidity	1.51	0.1	NTU'S		1.0	X	EPA 180.1	10/26/21	C APPLEKAMP
Redox Potential	11.5	1	mV		1.0		ASTM D1498-93	10/26/21	C APPLEKAMP
Total Dissolved Solids	132	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	10/28/21	020
Dissolved Sulfate	26.4	0.44	mg/L	2.0	1.0		EPA 300.0	11/8/21	020
Dissolved Chloride	2.2	0.44	mg/L	2.0	1.0	X	EPA 300.0	11/8/21	020
Dissolved Magnesium	5430	182	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Dissolved Calcium	23100	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Sodium	4590	350	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Potassium	1620	325	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Total Filtered Alkalinity as CaCO3	65.5	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/4/21	020

Report Date: Thursday, December 2, 2021

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

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE56952 Sample Collection Date/Time: 10/26/2021 12:00
Sample Received: 10/29/2021 Sample Collector: CODY APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Bicarbonate Ion	65.5	5.0	mg/L	10.0	1.0		HCO3	11/4/21	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1.0		CO3	11/4/21	020

Sample Comments:

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE56953 Sample Collection Date/Time: 10/26/2021 13:04
Sample Received: 10/29/2021 Sample Collector: CODY APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	12.25	0.05	feet		1.0		H2OD	10/26/21	C APPLEKAMP
Field Conductivity	116	0	umhos		1.0		FCOND25	10/26/21	C APPLEKAMP
Field pH	5.9	0.1	Units	0.1	1.0		FIELDPH	10/26/21	C APPLEKAMP
Field Temperature	14.8	0.1	Degrees C		1.0		TEMP	10/26/21	C APPLEKAMP
Total Boron	22.6	17.3	ug/L	40.0	1.0	J	EPA 200.7	10/29/21	020
Total Calcium	12500	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Total Chloride	2.4	0.43	mg/L	2.0	1.0		EPA 300.0	11/9/21	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	10/29/21	020
Total Sulfate	4.8	0.44	mg/L	2.0	1.0		EPA 300.0	11/9/21	020
Dissolved Oxygen-Field	0.53	0.1	mg/l		1.0		FIELDDO	10/26/21	C APPLEKAMP
Turbidity	8.41	0.1	NTU'S		1.0		EPA 180.1	10/26/21	C APPLEKAMP
Redox Potential	125	1	mV		1.0		ASTM D1498-93	10/26/21	C APPLEKAMP
Total Dissolved Solids	70.0	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	10/28/21	020
Dissolved Sulfate	4.8	0.44	mg/L	2.0	1.0		EPA 300.0	11/8/21	020
Dissolved Chloride	2.4	0.43	mg/L	2.0	1.0	X	EPA 300.0	11/8/21	020
Dissolved Magnesium	3880	182	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Dissolved Calcium	12200	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Sodium	4860	350	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Potassium	1780	325	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Total Filtered Alkalinity as CaCO3	49.4	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/4/21	020
Bicarbonate Ion	49.4	5.0	mg/L	10.0	1.0		HCO3	11/4/21	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1.0		CO3	11/4/21	020

Sample Comments:

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE56954 Sample Collection Date/Time: 10/26/2021 09:16
Sample Received: 10/29/2021 Sample Collector: CODY APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	6.07	0.05	feet		1.0		H2OD	10/26/21	C APPLEKAMP
Field Conductivity	215	0	umhos		1.0		FCOND25	10/26/21	C APPLEKAMP

Report Date: Thursday, December 2, 2021

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

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well**
 Sample ID: AE56954 Sample Collection Date/Time: 10/26/2021 09:16
 Sample Received: 10/29/2021 Sample Collector: CODY APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field pH	5.7	0.1	Units	0.1	1.0		FIELDPH	10/26/21	C APPLEKAMP
Field Temperature	12.7	0.1	Degrees C		1.0		TEMP	10/26/21	C APPLEKAMP
Total Boron	22.4	17.3	ug/L	40.0	1.0	J	EPA 200.7	10/29/21	020
Total Calcium	26400	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Total Chloride	5.7	0.43	mg/L	2.0	1.0	X	EPA 300.0	11/9/21	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	10/29/21	020
Total Sulfate	42.0	0.44	mg/L	2.0	1.0		EPA 300.0	11/9/21	020
Dissolved Oxygen-Field	0.15	0.1	mg/l		1.0		FIELDDO	10/26/21	C APPLEKAMP
Turbidity	1.48	0.1	NTU'S		1.0	X	EPA 180.1	10/26/21	C APPLEKAMP
Redox Potential	276	1	mV		1.0		ASTM D1498-93	10/26/21	C APPLEKAMP
Total Dissolved Solids	134	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	10/28/21	020
Dissolved Sulfate	41.4	0.44	mg/L	2.0	1.0		EPA 300.0	11/8/21	020
Dissolved Chloride	5.7	0.43	mg/L	2.0	1.0		EPA 300.0	11/8/21	020
Dissolved Magnesium	6200	182	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Dissolved Calcium	27000	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Sodium	6170	350	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Potassium	1780	325	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Total Filtered Alkalinity as CaCO3	48.4	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/4/21	020
Bicarbonate Ion	48.4	5.0	mg/L	10.0	1.0		HCO3	11/4/21	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1.0		CO3	11/4/21	020

Sample Comments:

Sample Description: **QA/QC1 Weston Disposal Site #3 - Ash Landfill CCR Well**
 Sample ID: AE56955 Sample Collection Date/Time: 10/26/2021 00:00
 Sample Received: 10/29/2021 Sample Collector: CODY APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	Less Than	17.3	ug/L	40.0	1.0		EPA 200.7	10/29/21	020
Total Calcium	5700	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Total Chloride	0.71	0.43	mg/L	2.0	1.0	J,X	EPA 300.0	11/9/21	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	10/29/21	020
Total Sulfate	2.7	0.44	mg/L	2.0	1.0		EPA 300.0	11/9/21	020
Total Dissolved Solids	62.0	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	10/28/21	020
Dissolved Sulfate	2.7	0.44	mg/L	2.0	1.0		EPA 300.0	11/8/21	020
Dissolved Chloride	0.69	0.43	mg/L	2.0	1.0	J,X	EPA 300.0	11/8/21	020
Dissolved Magnesium	1150	182	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Dissolved Calcium	5630	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Sodium	3430	350	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Potassium	1580	325	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Total Filtered Alkalinity as CaCO3	23.4	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/4/21	020
Bicarbonate Ion	23.4	5.0	mg/L	10.0	1.0		HCO3	11/4/21	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1.0		CO3	11/4/21	020

Report Date: Thursday, December 2, 2021

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

Sample Comments:

Sample Description: **EB1 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE56956 Sample Collection Date/Time: 10/26/2021 16:45
Sample Received: 10/29/2021 Sample Collector: CODY APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Conductivity	2	0	umhos		1.0		FCOND25	10/26/21	C APPLEKAMP
Field pH	6.5	0.1	Units	0.1	1.0		FIELDPH	10/26/21	C APPLEKAMP
Field Temperature	8.6	0.1	Degrees C		1.0		TEMP	10/26/21	C APPLEKAMP
Total Boron	Less Than	17.3	ug/L	40.0	1.0		EPA 200.7	10/29/21	020
Total Calcium	Less Than	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Total Chloride	0.78	0.43	mg/L	2.0	1.0	J	EPA 300.0	11/9/21	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	10/29/21	020
Total Sulfate	Less Than	0.44	mg/L	2.0	1.0		EPA 300.0	11/9/21	020
Turbidity	0.62	0.1	NTU'S		1.0		EPA 180.1	10/26/21	C APPLEKAMP
Total Dissolved Solids	Less Than	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	10/28/21	020
Dissolved Sulfate	Less Than	0.44	mg/L	2.0	1.0		EPA 300.0	11/8/21	020
Dissolved Chloride	0.53	0.43	mg/L	2.0	1.0	J	EPA 300.0	11/8/21	020
Dissolved Magnesium	Less Than	182	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Dissolved Calcium	Less Than	114	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Sodium	Less Than	350	ug/L	500	1.0		EPA 200.7	10/29/21	020
Dissolved Potassium	Less Than	325	ug/L	1000	1.0		EPA 200.7	10/29/21	020
Total Filtered Alkalinity as CaCO3	Less Than	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/4/21	020
Bicarbonate Ion	Less Than	5.0	mg/L	10.0	1.0		HCO3	11/4/21	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1.0		CO3	11/4/21	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.

To: Bob Meidl
PSB Annex A231

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



Report Date: Thursday, May 5, 2022

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

Sample Description: **LS-100 Weston Disposal Site #3 - Ash Landfill CCR Well**
 Sample ID: AE60080 Sample Collection Date/Time: 04/12/2022 11:46
 Sample Received: 04/14/2022 Sample Collector: C. APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	6.79	0.05	feet		1		H2OD	4/12/22	C. APPLEKAMP
Field Conductivity	133	0	umhos		1		FCOND25	4/12/22	C. APPLEKAMP
Field pH	5.62	0.1	Units	0.1	1		FIELDPH	4/12/22	C. APPLEKAMP
Field Temperature	4.8	0.1	Degrees		1		TEMP	4/12/22	C. APPLEKAMP
Total Dissolved Solids	94.0	8.7	mg/L	20.0	1		Std Mtd 2540 C	4/13/22	020
Total Boron	20.5	3.0	ug/L	10.0	1	X	EPA 200.7	4/15/22	020
Total Calcium	17000	76.2	ug/L	254	1		EPA 200.7	4/15/22	020
Total Chloride	1.7	0.43	mg/L	2.0	1	J	EPA 300.0	4/13/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	4/13/22	020
Total Sulfate	36.5	0.44	mg/L	2.0	1		EPA 300.0	4/13/22	020
Dissolved Oxygen-Field	9.66	0.1	mg/l		1		FIELDDO	4/12/22	C. APPLEKAMP
Turbidity	2.29	0.1	NTU'S		1		EPA 180.1	4/12/22	C. APPLEKAMP
Redox Potential	274.5	1	mV		1		ASTM D1498-93	4/12/22	C. APPLEKAMP
Total Alkalinity as CaCO3	21.1	5.2	mg/L	25.0	1	J	SM 2320 B-1997	4/22/22	020

Sample Comments:

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**
 Sample ID: AE60081 Sample Collection Date/Time: 04/12/2022 10:50
 Sample Received: 04/14/2022 Sample Collector: C. APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	8.54	0.05	feet		1		H2OD	4/12/22	C. APPLEKAMP
Field Conductivity	31	0	umhos		1		FCOND25	4/12/22	C. APPLEKAMP
Field pH	5.66	0.1	Units	0.1	1		FIELDPH	4/12/22	C. APPLEKAMP
Field Temperature	5.2	0.1	Degrees		1		TEMP	4/12/22	C. APPLEKAMP
Total Dissolved Solids	38.0	8.7	mg/L	20.0	1		Std Mtd 2540 C	4/13/22	020
Total Boron	9.2	3.0	ug/L	10.0	1	J, X	EPA 200.7	4/15/22	020
Total Calcium	2700	76.2	ug/L	254	1		EPA 200.7	4/15/22	020
Total Chloride	0.59	0.43	mg/L	2.0	1	J	EPA 300.0	4/15/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	4/15/22	020
Total Sulfate	2.1	0.44	mg/L	2.0	1		EPA 300.0	4/15/22	020
Dissolved Oxygen-Field	12.94	0.1	mg/l		1		FIELDDO	4/12/22	C. APPLEKAMP
Turbidity	6.86	0.1	NTU'S		1		EPA 180.1	4/12/22	C. APPLEKAMP
Redox Potential	267.5	1	mV		1		ASTM D1498-93	4/12/22	C. APPLEKAMP
Total Alkalinity as CaCO3	9.4	5.2	mg/L	25.0	1	J	SM 2320 B-1997	4/22/22	020

Report Date: Thursday, May 5, 2022

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

Sample Comments:

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE60082 Sample Collection Date/Time: 04/12/2022 12:26
Sample Received: 04/14/2022 Sample Collector: C. APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	3.91	0.05	feet		1		H2OD	4/12/22	C. APPLEKAMP
Field Conductivity	205	0	umhos		1		FCOND25	4/12/22	C. APPLEKAMP
Field pH	5.87	0.1	Units	0.1	1		FIELDPH	4/12/22	C. APPLEKAMP
Field Temperature	5.8	0.1	Degrees		1		TEMP	4/12/22	C. APPLEKAMP
Total Dissolved Solids	118	8.7	mg/L	20.0	1		Std Mtd 2540 C	4/15/22	020
Total Boron	24.1	3.0	ug/L	10.0	1	X	EPA 200.7	4/15/22	020
Total Calcium	22000	76.2	ug/L	254	1		EPA 200.7	4/15/22	020
Total Chloride	1.9	0.43	mg/L	2.0	1	J	EPA 300.0	4/15/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	4/15/22	020
Total Sulfate	20.9	0.44	mg/L	2.0	1		EPA 300.0	4/15/22	020
Dissolved Oxygen-Field	0.13	0.1	mg/l		1		FIELDDO	4/12/22	C. APPLEKAMP
Turbidity	1.65	0.1	NTU'S		1		EPA 180.1	4/12/22	C. APPLEKAMP
Redox Potential	-8.6	1	mV		1		ASTM D1498-93	4/12/22	C. APPLEKAMP
Total Alkalinity as CaCO3	73.7	10.4	mg/L	50.0	2		SM 2320 B-1997	4/22/22	020

Sample Comments:

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE60083 Sample Collection Date/Time: 04/12/2022 13:48
Sample Received: 04/14/2022 Sample Collector: C. APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	12.12	0.05	feet		1		H2OD	4/12/22	C. APPLEKAMP
Field Conductivity	48	0	umhos		1		FCOND25	4/12/22	C. APPLEKAMP
Field pH	5.73	0.1	Units	0.1	1		FIELDPH	4/12/22	C. APPLEKAMP
Field Temperature	5.4	0.1	Degrees		1		TEMP	4/12/22	C. APPLEKAMP
Total Dissolved Solids	76.0	8.7	mg/L	20.0	1		Std Mtd 2540 C	4/15/22	020
Total Boron	37.0	3.0	ug/L	10.0	1	X	EPA 200.7	4/15/22	020
Total Calcium	4240	76.2	ug/L	254	1		EPA 200.7	4/15/22	020
Total Chloride	0.99	0.43	mg/L	2.0	1	J	EPA 300.0	4/15/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	4/15/22	020
Total Sulfate	2.1	0.44	mg/L	2.0	1		EPA 300.0	4/15/22	020
Dissolved Oxygen-Field	3.25	0.1	mg/l		1		FIELDDO	4/12/22	C. APPLEKAMP
Turbidity	49.16	0.1	NTU'S		1		EPA 180.1	4/12/22	C. APPLEKAMP
Redox Potential	112.0	1	mV		1		ASTM D1498-93	4/12/22	C. APPLEKAMP
Total Alkalinity as CaCO3	Less Than	5.2	mg/L	25.0	1		SM 2320 B-1997	4/22/22	020

Report Date: Thursday, May 5, 2022

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

Sample Comments:

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE60084 Sample Collection Date/Time: 04/12/2022 10:13
Sample Received: 04/14/2022 Sample Collector: C. APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	5.60	0.05	feet		1		H2OD	4/12/22	C. APPLEKAMP
Field Conductivity	213	0	umhos		1		FCOND25	4/12/22	C. APPLEKAMP
Field pH	5.57	0.1	Units	0.1	1		FIELDPH	4/12/22	C. APPLEKAMP
Field Temperature	5.7	0.1	Degrees		1		TEMP	4/12/22	C. APPLEKAMP
Total Dissolved Solids	132	8.7	mg/L	20.0	1		Std Mtd 2540 C	4/15/22	020
Total Boron	21.5	3.0	ug/L	10.0	1	X	EPA 200.7	4/15/22	020
Total Calcium	24600	76.2	ug/L	254	1		EPA 200.7	4/15/22	020
Total Chloride	5.1	0.43	mg/L	2.0	1		EPA 300.0	4/15/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	4/15/22	020
Total Sulfate	42.0	0.44	mg/L	2.0	1		EPA 300.0	4/15/22	020
Dissolved Oxygen-Field	1.12	0.1	mg/l		1		FIELDDO	4/12/22	C. APPLEKAMP
Turbidity	2.08	0.1	NTU'S		1		EPA 180.1	4/12/22	C. APPLEKAMP
Redox Potential	278.4	1	mV		1		ASTM D1498-93	4/12/22	C. APPLEKAMP
Total Alkalinity as CaCO3	53.7	5.2	mg/L	25.0	1		SM 2320 B-1997	4/15/22	020

Sample Comments:

Sample Description: **QA/QC1 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE60085 Sample Collection Date/Time: 04/12/2022 00:00
Sample Received: 04/14/2022 Sample Collector: C. APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Dissolved Solids	34.0	8.7	mg/L	20.0	1		Std Mtd 2540 C	4/15/22	020
Total Boron	7.6	3.0	ug/L	10.0	1	J, X	EPA 200.7	4/15/22	020
Total Calcium	2610	76.2	ug/L	254	1		EPA 200.7	4/15/22	020
Total Chloride	0.65	0.43	mg/L	2.0	1	J	EPA 300.0	4/15/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	4/15/22	020
Total Sulfate	2.1	0.44	mg/L	2.0	1		EPA 300.0	4/15/22	020
Total Alkalinity as CaCO3	9.6	5.2	mg/L	25.0	1	J	SM 2320 B-1997	4/15/22	020

Sample Comments:

Sample Description: **EB1 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE60086 Sample Collection Date/Time: 04/12/2022 17:20
Sample Received: 04/14/2022 Sample Collector: C. APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
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Report Date: Thursday, May 5, 2022

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

Sample Description: **EB1 Weston Disposal Site #3 - Ash Landfill CCR Well**
Sample ID: AE60086 Sample Collection Date/Time: 04/12/2022 17:20
Sample Received: 04/14/2022 Sample Collector: C. APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Dissolved Solids	Less Than	8.7	mg/L	20.0	1		Std Mtd 2540 C	4/15/22	020
Total Boron	15.0	3.0	ug/L	10	1		EPA 200.7	4/15/22	020
Total Calcium	Less Than	76.2	ug/L	254	1		EPA 200.7	4/15/22	020
Total Chloride	Less Than	0.43	mg/L	2.0	1		EPA 300.0	4/15/22	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	4/15/22	020
Total Sulfate	Less Than	0.44	mg/L	2.0	1		EPA 300.0	4/15/22	020
Total Alkalinity as CaCO3	Less Than	5.2	mg/L	25.0	1		SM 2320 B-1997	4/15/22	020

Sample Comments:

Sample Description: **LS-106 WDS#3 - Ash Landfill CCR Well - FILTERED**
Sample ID: AE60087 Sample Collection Date/Time: 04/12/2022 13:48
Sample Received: 04/14/2022 Sample Collector: C. APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	12.12	0.05	feet		1		H2OD	4/12/22	C. APPLEKAMP
Field Conductivity	48	0	umhos		1		FCOND25	4/12/22	C. APPLEKAMP
Field pH	5.73	0.1	Units	0.1	1		FIELDPH	4/12/22	C. APPLEKAMP
Field Temperature	5.4	0.1	Degrees		1		TEMP	4/12/22	C. APPLEKAMP
Total Dissolved Solids	32.0	8.7	mg/L	20.0	1		Std Mtd 2540 C	4/15/22	020
Dissolved Boron	9.5	3.0	ug/L	10.0	1	J	EPA 200.7	4/22/22	020
Dissolved Calcium	4280	76.2	ug/L	254	1		EPA 200.7	4/22/22	020
Dissolved Chloride	1.0	0.43	mg/L	2.0	1	J	EPA 300.0	4/21/22	020
Dissolved Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	4/21/22	020
Dissolved Sulfate	2.1	0.44	mg/L	2.0	1		EPA 300.0	4/21/22	020
Dissolved Oxygen-Field	3.25	0.1	mg/l		1		FIELDDO	4/12/22	C. APPLEKAMP
Turbidity	49.16	0.1	NTU'S		1		EPA 180.1	4/12/22	C. APPLEKAMP
Redox Potential	112.0	1	mV		1		ASTM D1498-93	4/12/22	C. APPLEKAMP
Total Filtered Alkalinity as CaCO3	16.7	5.2	mg/l	25.0	1	J	Std Mtd 2320 B	4/21/22	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.

April 29, 2022

Patrick Ahrens
WEC Business Services, LLC.
PO BOX 19800
700 NORTH ADAMS
Green Bay, WI 543079004

RE: Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

Dear Patrick Ahrens:

Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Q-6005-001031 WDS#3 CCR LANDFI

Pace Project No.: 40243379

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Q-6005-001031 WDS#3 CCR LANDFI

Pace Project No.: 40243379

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40243379001	LS-100	Water	04/12/22 11:46	04/13/22 15:25
40243379002	LS-101	Water	04/12/22 10:50	04/13/22 15:25
40243379003	LS-105	Water	04/12/22 12:26	04/13/22 15:25
40243379004	LS-106	Water	04/12/22 13:48	04/13/22 15:25
40243379005	LS-107	Water	04/12/22 10:13	04/13/22 15:25
40243379006	QA/QC1	Water	04/12/22 00:00	04/13/22 15:25
40243379007	EB1	Water	04/12/22 17:20	04/13/22 15:25
40243379008	LS-106 (HIGH TURBIDITY DUP)	Water	04/12/22 13:48	04/13/22 15:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40243379001	LS-100	EPA 200.8	KXS	2	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243379002	LS-101	EPA 200.8	KXS	2	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243379003	LS-105	EPA 200.8	KXS	2	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243379004	LS-106	EPA 200.8	KXS	2	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243379005	LS-107	EPA 200.8	KXS	2	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243379006	QA/QC1	EPA 200.8	KXS	2	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243379007	EB1	EPA 200.8	KXS	2	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243379008	LS-106 (HIGH TURBIDITY DUP)	EPA 200.8	KXS	2	PASI-G
		SM 2540C	SRK	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		EPA 310.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

Sample: LS-100 **Lab ID: 40243379001** Collected: 04/12/22 11:46 Received: 04/13/22 15:25 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	20.5	ug/L	10.0	3.0	1	04/15/22 06:11	04/27/22 02:50	7440-42-8	
Calcium	17000	ug/L	254	76.2	1	04/15/22 06:11	04/27/22 02:50	7440-70-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	94.0	mg/L	20.0	8.7	1		04/14/22 14:39		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	1.7J	mg/L	2.0	0.43	1		04/20/22 13:26	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		04/20/22 13:26	16984-48-8	
Sulfate	36.5	mg/L	2.0	0.44	1		04/20/22 13:26	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	21.1J	mg/L	25.0	5.2	1		04/22/22 09:42		

Sample: LS-101 **Lab ID: 40243379002** Collected: 04/12/22 10:50 Received: 04/13/22 15:25 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	9.2J	ug/L	10.0	3.0	1	04/15/22 06:11	04/27/22 03:05	7440-42-8	
Calcium	2700	ug/L	254	76.2	1	04/15/22 06:11	04/28/22 22:24	7440-70-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	38.0	mg/L	20.0	8.7	1		04/14/22 14:39		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	0.59J	mg/L	2.0	0.43	1		04/20/22 13:41	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		04/20/22 13:41	16984-48-8	
Sulfate	2.1	mg/L	2.0	0.44	1		04/20/22 13:41	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	9.4J	mg/L	25.0	5.2	1		04/22/22 09:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

Sample: LS-105 **Lab ID: 40243379003** Collected: 04/12/22 12:26 Received: 04/13/22 15:25 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	24.1	ug/L	10.0	3.0	1	04/15/22 06:11	04/27/22 03:12	7440-42-8	
Calcium	22000	ug/L	254	76.2	1	04/15/22 06:11	04/27/22 03:12	7440-70-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	118	mg/L	20.0	8.7	1		04/15/22 15:11		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	1.9J	mg/L	2.0	0.43	1		04/20/22 13:55	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		04/20/22 13:55	16984-48-8	
Sulfate	20.9	mg/L	2.0	0.44	1		04/20/22 13:55	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	73.7	mg/L	50.0	10.4	2		04/22/22 09:47		

Sample: LS-106 **Lab ID: 40243379004** Collected: 04/12/22 13:48 Received: 04/13/22 15:25 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	37.0	ug/L	10.0	3.0	1	04/15/22 06:11	04/27/22 03:19	7440-42-8	
Calcium	4240	ug/L	254	76.2	1	04/15/22 06:11	04/27/22 03:19	7440-70-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	76.0	mg/L	20.0	8.7	1		04/15/22 15:11		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	0.99J	mg/L	2.0	0.43	1		04/20/22 14:55	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		04/20/22 14:55	16984-48-8	
Sulfate	2.1	mg/L	2.0	0.44	1		04/20/22 14:55	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<5.2	mg/L	25.0	5.2	1		04/22/22 12:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

Sample: LS-107 **Lab ID: 40243379005** Collected: 04/12/22 10:13 Received: 04/13/22 15:25 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	21.5	ug/L	10.0	3.0	1	04/15/22 06:11	04/27/22 03:42	7440-42-8	
Calcium	24600	ug/L	254	76.2	1	04/15/22 06:11	04/27/22 03:42	7440-70-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	132	mg/L	20.0	8.7	1		04/15/22 15:12		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	5.1	mg/L	2.0	0.43	1		04/20/22 15:10	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		04/20/22 15:10	16984-48-8	
Sulfate	42.0	mg/L	2.0	0.44	1		04/20/22 15:10	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	53.7	mg/L	25.0	5.2	1		04/22/22 09:51		

Sample: QA/QC1 **Lab ID: 40243379006** Collected: 04/12/22 00:00 Received: 04/13/22 15:25 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	7.6J	ug/L	10.0	3.0	1	04/15/22 06:11	04/27/22 03:49	7440-42-8	
Calcium	2610	ug/L	254	76.2	1	04/15/22 06:11	04/28/22 22:31	7440-70-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	34.0	mg/L	20.0	8.7	1		04/15/22 15:12		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	0.65J	mg/L	2.0	0.43	1		04/25/22 13:59	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		04/25/22 13:59	16984-48-8	
Sulfate	2.1	mg/L	2.0	0.44	1		04/25/22 13:59	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	9.6J	mg/L	25.0	5.2	1		04/22/22 09:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

Sample: EB1									
Lab ID: 40243379007									
Collected: 04/12/22 17:20 Received: 04/13/22 15:25 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	15.0	ug/L	10.0	3.0	1	04/15/22 06:11	04/27/22 02:13	7440-42-8	
Calcium	<76.2	ug/L	254	76.2	1	04/15/22 06:11	04/27/22 02:13	7440-70-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	<8.7	mg/L	20.0	8.7	1		04/15/22 15:12		
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<0.43	mg/L	2.0	0.43	1		04/25/22 14:13	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		04/25/22 14:13	16984-48-8	
Sulfate	<0.44	mg/L	2.0	0.44	1		04/25/22 14:13	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<5.2	mg/L	25.0	5.2	1		04/22/22 09:53		

Sample: LS-106 (HIGH TURBIDITY DUP)									
Lab ID: 40243379008									
Collected: 04/12/22 13:48 Received: 04/13/22 15:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Pace Analytical Services - Green Bay									
Boron, Dissolved	9.5J	ug/L	10.0	3.0	1	04/22/22 06:03	04/23/22 11:22	7440-42-8	
Calcium, Dissolved	4280	ug/L	254	76.2	1	04/22/22 06:03	04/23/22 11:22	7440-70-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	32.0	mg/L	20.0	8.7	1		04/15/22 15:12		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	1.0J	mg/L	2.0	0.43	1		04/21/22 12:41	16887-00-6	
Fluoride, Dissolved	<0.095	mg/L	0.32	0.095	1		04/21/22 12:41	16984-48-8	
Sulfate, Dissolved	2.1	mg/L	2.0	0.44	1		04/21/22 12:41	14808-79-8	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	16.7J	mg/L	25.0	5.2	1		04/21/22 13:16		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

QC Batch: 413245 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243379001, 40243379002, 40243379003, 40243379004, 40243379005, 40243379006, 40243379007

METHOD BLANK: 2379591 Matrix: Water
Associated Lab Samples: 40243379001, 40243379002, 40243379003, 40243379004, 40243379005, 40243379006, 40243379007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	<3.0	10.0	04/27/22 00:44	
Calcium	ug/L	<76.2	254	04/27/22 00:44	

LABORATORY CONTROL SAMPLE: 2379592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	250	235	94	85-115	
Calcium	ug/L	10000	10300	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2379593 2379594

Parameter	Units	40243384021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	650	250	250	934	877	113	91	75-125	6	20	
Calcium	ug/L	239000	10000	10000	263000	253000	242	141	75-125	4	20 P6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2379595 2379596

Parameter	Units	40243469003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	608	250	250	860	854	101	98	75-125	1	20	
Calcium	ug/L	11500	10000	10000	21500	21800	100	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Q-6005-001031 WDS#3 CCR LANDFI

Pace Project No.: 40243379

QC Batch: 413843

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40243379008

METHOD BLANK: 2382886

Matrix: Water

Associated Lab Samples: 40243379008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<3.0	10.0	04/23/22 11:00	
Calcium, Dissolved	ug/L	77.4J	254	04/23/22 11:00	

LABORATORY CONTROL SAMPLE: 2382887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	250	234	94	85-115	
Calcium, Dissolved	ug/L	10000	9520	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2382888 2382889

Parameter	Units	40243379008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	9.5J	250	250	240	240	92	92	75-125	0	20	
Calcium, Dissolved	ug/L	4280	10000	10000	13900	13800	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: Q-6005-001031 WDS#3 CCR LANDFI

Pace Project No.: 40243379

QC Batch: 413215	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40243379001, 40243379002

METHOD BLANK: 2379232 Matrix: Water

Associated Lab Samples: 40243379001, 40243379002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	04/14/22 14:35	

LABORATORY CONTROL SAMPLE: 2379233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	555	552	99	80-120	

SAMPLE DUPLICATE: 2379234

Parameter	Units	40243282002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	572	572	0	10	

SAMPLE DUPLICATE: 2379235

Parameter	Units	40243380001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	644	650	1	10	

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QUALITY CONTROL DATA

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

QC Batch: 413332 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243379003, 40243379004, 40243379005, 40243379006, 40243379007, 40243379008

METHOD BLANK: 2380052 Matrix: Water
Associated Lab Samples: 40243379003, 40243379004, 40243379005, 40243379006, 40243379007, 40243379008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	04/15/22 15:10	

LABORATORY CONTROL SAMPLE: 2380053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	555	510	92	80-120	

SAMPLE DUPLICATE: 2380054

Parameter	Units	40243353001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	602	620	3	10	

SAMPLE DUPLICATE: 2380055

Parameter	Units	40243379003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	118	112	5	10	

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QUALITY CONTROL DATA

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

QC Batch: 413689 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243379008

METHOD BLANK: 2381918 Matrix: Water
Associated Lab Samples: 40243379008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	04/21/22 12:11	
Fluoride	mg/L	<0.095	0.32	04/21/22 12:11	
Sulfate	mg/L	<0.44	2.0	04/21/22 12:11	

LABORATORY CONTROL SAMPLE: 2381919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.1	100	90-110	
Fluoride	mg/L	2	2.0	102	90-110	
Sulfate	mg/L	20	20.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2381920 2381921

Parameter	Units	40243384013		2381920		2381921		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	1.9J	20	20	24.1	24.3	111	112	90-110	1	15	M0	
Fluoride	mg/L	0.59	2	2	2.7	2.7	103	106	90-110	2	15		
Sulfate	mg/L	25.5	20	20	47.6	47.7	110	111	90-110	0	15	M0	

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QUALITY CONTROL DATA

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

QC Batch: 413592 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243379001, 40243379002, 40243379003, 40243379004, 40243379005

METHOD BLANK: 2381444 Matrix: Water
Associated Lab Samples: 40243379001, 40243379002, 40243379003, 40243379004, 40243379005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	04/20/22 11:42	
Fluoride	mg/L	<0.095	0.32	04/20/22 11:42	
Sulfate	mg/L	<0.44	2.0	04/20/22 11:42	

LABORATORY CONTROL SAMPLE: 2381445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.4	97	90-110	
Fluoride	mg/L	2	1.9	97	90-110	
Sulfate	mg/L	20	19.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2381446 2381447

Parameter	Units	40243135008		2381446		2381447		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	23.5	20	20	20	45.5	45.4	110	110	90-110	0	15	
Fluoride	mg/L	<0.48	10	10	10	11.6	11.4	116	114	90-110	2	15 M0	
Sulfate	mg/L	23.5	20	20	20	46.0	45.9	112	112	90-110	0	15 M0	

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QUALITY CONTROL DATA

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

QC Batch: 413946 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243379006, 40243379007

METHOD BLANK: 2383815 Matrix: Water
Associated Lab Samples: 40243379006, 40243379007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	04/25/22 13:14	
Fluoride	mg/L	<0.095	0.32	04/25/22 13:14	
Sulfate	mg/L	<0.44	2.0	04/25/22 13:14	

LABORATORY CONTROL SAMPLE: 2383816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.4	102	90-110	
Fluoride	mg/L	2	1.8	90	90-110	
Sulfate	mg/L	20	20.4	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2383817 2383818

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40243469001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.7	20	20	30.8	30.8	111	111	90-110	0	15	M0	
Fluoride	mg/L	<0.095	2	2	2.9	2.9	144	144	90-110	0	15	M0	
Sulfate	mg/L	140	200	200	394	349	127	105	90-110	12	15	M0	

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QUALITY CONTROL DATA

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

QC Batch: 413824 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243379001, 40243379002, 40243379003, 40243379004, 40243379005, 40243379006, 40243379007

METHOD BLANK: 2382564 Matrix: Water
Associated Lab Samples: 40243379001, 40243379002, 40243379003, 40243379004, 40243379005, 40243379006, 40243379007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<5.2	25.0	04/22/22 09:32	

LABORATORY CONTROL SAMPLE: 2382565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	96.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2382566 2382567

Parameter	Units	40243379003		2382567		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	73.7	200	200	277	278	102	102	90-110	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2382568 2382569

Parameter	Units	40243514015		2382569		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	66.7	200	200	273	272	103	103	90-110	0	20

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QUALITY CONTROL DATA

Project: Q-6005-001031 WDS#3 CCR LANDFI
Pace Project No.: 40243379

QC Batch: 413665 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243379008

METHOD BLANK: 2381700 Matrix: Water
Associated Lab Samples: 40243379008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<5.2	25.0	04/21/22 12:50	

LABORATORY CONTROL SAMPLE: 2381701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	98.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2381702 2381703

Parameter	Units	40243336002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	90.5	200	200	288	285	99	97	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2381704 2381705

Parameter	Units	40243381001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	72.8	100	100	184	192	111	119	90-110	4	20 M0	

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QUALIFIERS

Project: Q-6005-001031 WDS#3 CCR LANDFI

Pace Project No.: 40243379

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.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Q-6005-001031 WDS#3 CCR LANDFI

Pace Project No.: 40243379

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243379001	LS-100	EPA 200.8	413245	EPA 200.8	413411
40243379002	LS-101	EPA 200.8	413245	EPA 200.8	413411
40243379003	LS-105	EPA 200.8	413245	EPA 200.8	413411
40243379004	LS-106	EPA 200.8	413245	EPA 200.8	413411
40243379005	LS-107	EPA 200.8	413245	EPA 200.8	413411
40243379006	QA/QC1	EPA 200.8	413245	EPA 200.8	413411
40243379007	EB1	EPA 200.8	413245	EPA 200.8	413411
40243379008	LS-106 (HIGH TURBIDITY DUP)	EPA 200.8	413843	EPA 200.8	413901
40243379001	LS-100	SM 2540C	413215		
40243379002	LS-101	SM 2540C	413215		
40243379003	LS-105	SM 2540C	413332		
40243379004	LS-106	SM 2540C	413332		
40243379005	LS-107	SM 2540C	413332		
40243379006	QA/QC1	SM 2540C	413332		
40243379007	EB1	SM 2540C	413332		
40243379008	LS-106 (HIGH TURBIDITY DUP)	SM 2540C	413332		
40243379001	LS-100	EPA 300.0	413592		
40243379002	LS-101	EPA 300.0	413592		
40243379003	LS-105	EPA 300.0	413592		
40243379004	LS-106	EPA 300.0	413592		
40243379005	LS-107	EPA 300.0	413592		
40243379006	QA/QC1	EPA 300.0	413946		
40243379007	EB1	EPA 300.0	413946		
40243379008	LS-106 (HIGH TURBIDITY DUP)	EPA 300.0	413689		
40243379001	LS-100	EPA 310.2	413824		
40243379002	LS-101	EPA 310.2	413824		
40243379003	LS-105	EPA 310.2	413824		
40243379004	LS-106	EPA 310.2	413824		
40243379005	LS-107	EPA 310.2	413824		
40243379006	QA/QC1	EPA 310.2	413824		
40243379007	EB1	EPA 310.2	413824		
40243379008	LS-106 (HIGH TURBIDITY DUP)	EPA 310.2	413665		

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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.

942480

40243379

Page: **1** of **3**

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: WI Public Service		Report To: Patrick Ahrens		Attention: Accounts Payable	
Address: 333 W. Everett St.		Copy To:		Company Name: We Energies	
Milwaukee, WI 53203				Address: 333 W. Everett St., Milwaukee, WI 532	
Email To: patrick.ahrens@wecenergygroup.com		Purchase Order No.: 4700004930		Pace Quote Reference:	
Phone: 414-221-2835	Fax: 414-221-4357	Project Name: WDS#3 CCR Landfill - April 2022 Samples		Pace Project Manager: Brian Basten	
Requested Due Date/TAT: Normal TAT		Project Number: Q-6005-001031		Pace Profile #:	
				REGULATORY AGENCY	
				NPDES GROUND WATER x DRINKING WATER	
				UST RCRA OTHER	
				Site Location	
				WI	
				STATE:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	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 ↓	TDS	ALKALINITY - unfiltered	CHLORIDE - unfiltered	SULFATE - unfiltered	FLOURIDE - unfiltered	BORON - unfiltered	CALCIUM - unfiltered	CALCIUM - filtered	CHLORIDE - filtered	MAGNESIUM - filtered	SODIUM - filtered	POTASSIUM - filtered					
					DATE	TIME	DATE	TIME																												
1	LS-100	WT	G			4-12	1146	6	4	0	2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		001			
2	LS-101	WT	G				1050	6	4	0	2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		002			
3	LS-105	WT	G				1226	6	4	0	2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		003			
4	LS-106	WT	G				1348	6	4	0	2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		004			
5	LS-107	WT	G				1013	6	4	0	2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		005			
6	QA/QC1	WT	G					6	4	0	2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		006			
7	EB1	WT	G				1720	6	4	0	2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		007			
8	LS-106 (high turbidity dup)						1348	2	1	0	1						F	F	F	F	F	F										008				
9																																				
10																																				
11																																				
12																																				


See comments

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
LS-106 (HTD) is filtered only Please analyze selenium with method EPA 200.8	<i>[Signature]</i>	REL 04-13-22	1525	<i>[Signature]</i> Pace	4/13/22	1525	3 Y N Y
LS-106 Per Nate Keller (RAMBO) no additional filtered analysis							

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: Cody Applekamp					
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed (MM/DD/YY): 4-13-22			

Sample Condition Upon Receipt Form (SCUR)

Client Name: WPS
 Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____
WO#: 40243379

 40243379

Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used SR - 105 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 3 / Corr: 3
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 4/13/20 / Initials: SKW
 Labeled By Initials: _____

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

4-12-2022 CMA(REL)

Project: WDS#3 Legner

License No: FID# 737054120 / ID# 03067

Depth to bottom	Sample Point	Water Level	Date & Time Sampled		Temperature		Conductivity (uS/cm)	Turbidity (NTU)	Comments (odor, color, & Visual Clarity)
					(°C)	pH			
10.4	LS-102	2.42	4-12	1510	7.0	5.72	73	no	clear
30.5	LS-102P	1.52		1530	8.3	5.95	107	yes	cloudy
27	LS-10 OW	11.15		1550	8.1	7.58	373	yes	cloudy
21.3	LS-103	9.93		1440	6.8	5.85	99	yes	cloudy
41.9	LS-103P	10.06		1400	12.6	7.49	543	yes	cloudy
17.9	LS-101	6.45	1050 CCR Well - All readings are located on Groundwater Monitoring Field Form						
37.8	LS-101P	8.72		1640	8.7	6.72	64	270	brown cloudy
17.7	LS-104	7.56		1300	6.3	5.94	34	yes	cloudy
18.2	LS-54 OW	1.29		1205	7.1	6.06	44	yes	brown cloudy
36.4	LS-54P	0.91		1220	8.3	6.78	157	no	clear
25	LS-49R	3.42		1446	6.7	5.85	224	10.45	clear final low flow readings
16.4	LS-100	6.71	1146 CCR Well - All readings are located on Groundwater Monitoring Field Form						
36.5	LS-100P	8.79		1630	9.5	7.17	310	yes	brown cloudy
10.7	LS-105	3.89	1226 CCR Well - All readings are located on Groundwater Monitoring Field Form						
15	LS-106	10.64	1348 CCR Well - All readings are located on Groundwater Monitoring Field Form						
15	LS-107	5.43	1013 CCR Well - All readings are located on Groundwater Monitoring Field Form						
30.6	LS-105P	3.88		1700	9.0	5.86	189	2.86	clear
13	LS-48R	2.17		1555	5.0	6.86	213	45.70	tan cloudy
35.7	LS-48P	1.14	✓	1605	7.8	7.84	249	82.82	brown cloudy
16.42	LS-55 OW	6.69	--	--	--	--	--	--	WATER LEVEL ONLY
37	LS-55P	5.79	--	--	--	--	--	--	WATER LEVEL ONLY
15.9	LS-51 OW	8.56	--	--	--	--	--	--	WATER LEVEL ONLY
15.6	LS-52 OW	8.13	--	--	--	--	--	--	WATER LEVEL ONLY
36	LS-52P	7.24	--	--	--	--	--	--	WATER LEVEL ONLY
21.8	LS-16 OW	8.90	--	--	--	--	--	--	WATER LEVEL ONLY
36.5	LS-16P	14.70	--	--	--	--	--	--	WATER LEVEL ONLY
18.9	LS-50 OW	6.64	--	--	--	--	--	--	WATER LEVEL ONLY
16.7	LS-24 OW	10.02	--	--	--	--	--	--	WATER LEVEL ONLY
36.4	LS-24P	12.12	--	--	--	--	--	--	WATER LEVEL ONLY
12.15	LS-40 OW	5.83	--	--	--	--	--	--	WATER LEVEL ONLY
37.3	LS-40P	10.22	--	--	--	--	--	--	WATER LEVEL ONLY
	EB-1	-	4-12						
	EB-2 (if needed)	-	-	1 Day of sampling, EB-2 not needed					
	SW-1	-	DRY No sample						
	SW-2	-	4-12	1705	9.7	6.67	82	2.0	clear, taken from middle pond
	SW-3	-	DRY No sample						
	Leachate Collection Tank	-	4-12-22	1740	9.6	7.33	2080	No	clear

QC01 = LS-101

QC02 = LS-103P

Notes:

SW sample points = field conductivity, field pH, odor, color and turbidity (no sample submitted to lab)
Leachate Collection Tank is total (unfiltered)

Meter Calibration Notes:

YSI ProDSS used for wells with NTU turbidity reading
Oyster PH, cond, temp "pen" used for all others

*both calibrated 4-11-2022

Field Notes on Back of Sheet and/or in field book

SW-02 was collected at middle pond

✱ LS-103 & 104 cracked pvc well caps, need replacements
LS-52 & 107 pro top loose

WELL DEVELOPMENT AND GROUNDWATER MONITORING FIELD FORM

LS 106 ✓
CCR only

12.5/2.5

12/3
per test
round

25 psi

very hard
to get recovery
stabilized

PROJECT INFORMATION											
Site: WDS #3	Client: WPSC	Task #: _____	Time: 1249								
Project Number: 5484-033 Phase 4BET	Start Date: 4-12-2022	Finish Date: 4-12-2022	Time: 1348								
Field Personnel: CMA											
WELL INFORMATION		EVENT TYPE									
Well ID: LS-106	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump	<input type="checkbox"/> Well Development									
Casing ID: _____	Bailer Type: n/a	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling									
Screen Interval: _____	Pump Type and Serial #: Bladder QED	<input type="checkbox"/> Well Volume Approach Sampling									
Borehole Diameter: _____	Tube/Pump Intake Depth: _____	<input type="checkbox"/> Other (Specify below)									
Filter Pack Interval: _____	Stabilized Pumping Rate: _____										
DEPTH MEASUREMENTS											
	INITIAL	FINAL									
Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)								
LNAPL											
Groundwater	10.64	12.45									
DNAPL											
Casing Base											
Water Level Serial #: Herron Dipper T	Water Quality Probe Type and Serial # YSI Pro DSS										
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1249	0	11.57	0.93	4.3	6.23	40	6.55	480	126.8	red brown turbid
purge	1255	1.0	12.02	1.38	4.9	5.94	42	5.31	151	107.9	brown cloudy
	1306	1.0	12.08	1.44	5.0	5.93	41	5.00	120	102.7	
	1309		12.08	1.44	5.0	5.90	40	4.89	349	111.3	heavy turbid brown
	1312				5.1	5.88	39	4.60	205	112.0	brown cloudy
	1315	2.0			5.2	5.87	40	4.43	94	107.4	
	1318				5.2	5.80	40	4.30	74	104.7	
	1321		12.02	1.48	5.2	5.85	40	4.23	180	105.2	heavy cloudy brown
NOTES								ABBREVIATIONS			
1349 sample time + high turbid DWP *								Cond. - Actual Conductivity			
readings every 3 min due to lower rate								FT BTOC - Feet Below Top of Casing			
								SEC - Specific Electrical Conductance			
								SU - Standard Units			
								Temp - Temperature			
								°C - Degrees Celsius			

over

LS 106

WELL DEVELOPMENT AND GROUNDWATER MONITORING FIELD FORM

Site: WDS #3 Client: WPSC
 Project Number: 5484-033 Phase 4 REL Task #: Start Date: 4-12-2022 Time: 1249
 Field Personnel: CMA Finish Date: 4-12-2022 Time: 1348

WELL INFORMATION
 Well Development Low-Flow / Low Stress Sampling
 Well Volume Approach Sampling Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
Purge	1324	2.5	12.12	1.48	5.2	5.82	40	4.02	202	109.3	brown clear
	1327		12.12	1.48	5.2	5.81	41	3.98	155	110.6	
	1330	3.0	12.12	1.48	5.3	5.80	42	3.82	95	111.8	light cloudy
	1333				5.4	5.78	43	3.71	64	110.8	
	1336				5.3	5.77	44	3.61	59.10	110.7	
	1339				5.3	5.76	45	3.58	52.78	110.8	
Sample	1342	4.0			5.4	5.75	46	3.42	49.61	111.2	
	1345				5.4	5.74	47	3.36	46.89	111.6	
	1348				5.4	5.73	48	3.25	49.16	112.0	

NOTES (continued)

1348 Sample time

ABBREVIATIONS

Cond. - Actual Conductivity
 FT BTOC - Feet Below Top of Casing
 na - Not Applicable
 nm - Not Measured
 ORP - Oxidation-Reduction Potential
 SEC - Specific Electrical Conductance
 SU - Standard Units
 Temp - Temperature
 °C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER MONITORING FIELD FORM

Site: WDS #3 Client: WPSC
 Project Number: 5484-033 Phase 4 REL Task #: Start Date: 4-12-2022 Time: 0956
 Field Personnel: CMA Finish Date: 4-12-2022 Time: 1013

WELL INFORMATION
 Well ID: LS-107
 Casing ID: _____ Inches
 Screen Interval: _____ Inches
 Borehole Diameter: _____ Inches
 Filter Pack Interval: _____

EVENT TYPE
 Well Development
 Low-Flow / Low-Stress Sampling
 Well Volume Approach Sampling
 Other (Specify below)

PURGE INFORMATION
 Purge Method: Bailor Pump
 Bailor Type: n/a
 Pump Type and Serial #: Bladder QED
 Tube/Pump Intake Depth: _____
 Stabilized Pumping Rate: _____

DEPTH MEASUREMENTS

Lithology	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	5.43	0952		
DNAPL				
Casing Base				

Volume Calculation Type: Well Casing Borehole
 Volume Per Foot: _____ feet
 Standing Water Column: _____ Gallons
 1 Well Volumes: _____ Gallons
 3 Well Volumes: _____ Gallons
 5 Well Volumes: _____ Gallons
 10 Well Volumes: _____ Gallons
 Total Volumes Produced: _____ Gallons
 Well Purged Dry? Yes No

Water Level Serial #: Herron Dipper T Water Quality Probe Type and Serial # YSI Pro DSS

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0956	0	5.60	0.17	5.7	6.00	222	2.28	13.02	245.8	clear
purge	1005	1		0.17	5.7	5.55	219	1.00	2.46	276.8	clear
	1007				5.7	5.55	218	1.17	2.27	277.6	
	1009				5.7	5.56	216	1.14	2.14	278.3	
	1011	2			5.7	5.57	215	1.13	2.15	278.4	
sample	1013				5.7	5.57	213	1.12	2.08	278.4	

NOTES
 1013 sample fine

ABBREVIATIONS
 Cond - Actual Conductivity
 FT BTOC - Feet Below Top of Casing
 In - Not Applicable
 m - Not Measured
 ORP - Oxidation-Reduction Potential
 SEC - Specific Electrical Conductance
 SU - Standard Units
 Temp - Temperature
 °C - Degrees Celsius

✓
 LS-107
 CCR only
 10 refill
 5 sample
 @ 25 psi

1-750ml upsampled CCR wells
 1-750ml H203 unless 55
 turbidity > 10 NTU

WELL DEVELOPMENT AND GROUNDWATER MONITORING FIELD FORM

PROJECT INFORMATION

Site: WDS #3 Client: WPSC
 Project Number: 5484-033 Phase 4 REL Task #: Start Date: 4-12-2022 Time: 1028
 Field Personnel: CMA Finish Date: 4-12-2022 Time: 1050

WELL INFORMATION

Well ID: LS-101
 Casing ID: _____ inches
 Screen Interval: _____ inches
 Borehole Diameter: _____ inches
 Filter Pack Interval: _____ inches

EVENT TYPE

Well Development
 Low-Flow / Low-Stress Sampling
 Well Volume Approach Sampling
 Other (Specify below)

PURGE INFORMATION

Purge Method: Bailer Pump
 Bailer Type: n/a
 Pump Type and Serial #: Bladder QED
 Tube/Pump Intake Depth: _____
 Stabilized Pumping Rate: _____

DEPTH MEASUREMENTS

Depth FT BTOC	INITIAL		FINAL	
	Depth (24-Hour)	Time (24-Hour)	Depth (24-Hour)	Time (24-Hour)
LNAPL	8.45	1024		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: Well Casing Borehole
 Volume Per Foot: _____ feet
 Standing Water Column: _____ Gallons 3 Well Volumes: _____ Gallons
 1 Well Volume: _____ Gallons 10 Well Volumes: _____ Gallons
 5 Well Volumes: _____ Gallons
 Total Volumes Produced: _____ Gallons
 Well Purged Dry? Yes No

Water Level Serial #: Herron Dipper T

Water Quality Probe Type and Serial #: YSI Pro DSS

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1038	0.5	8.45	0.09	5.9	6.01	32	12.57	8.47	247.2	clear
purge	1041		8.54		5.2	5.68	30	12.92	5.99	263.6	
	1044		8.54		5.2	5.68	31	12.93	7.25	265.4	
	1047				5.2	5.66	31	12.95	6.58	266.7	
sample	1050	1.0			5.2	5.66	31	12.95	6.90	267.4	
					5.2	5.66	31	12.94	6.86	267.5	

NOTES

1050 sample time

ABBREVIATIONS

Cond. - Actual Conductivity
 FT BTOC - Feet Below Top of Casing
 na - Not Applicable
 mm - Not Measured
 °C - Degrees Celsius
 ORP - Oxidation-Reduction Potential
 SEC - Specific Electrical Conductance
 SU - Standard Units
 Temp - Temperature

LS 101 ✓
 CCR & MR 500
 * 20-01 *

12.5 refill
 2.5 sample
 @ 25 psi

readings every 3 min
 like last time
 due to slower
 recharge &
 refill speed

WELL DEVELOPMENT AND GROUNDWATER MONITORING FIELD FORM

LS-100
CCR & NR 500

10/3

25 psi

PROJECT INFORMATION										
Site: WDS #3	Client: WPSC	Start Date: 4-12-2022	Time: 1121							
Project Number: 5484-033 Phase 4 REL	Task #: _____	Finish Date: 4-12-2022	Time: 1146							
Field Personnel: CMA										
WELL INFORMATION		EVENT TYPE								
Well ID: LS-100	Well Development	<input type="checkbox"/> Well Development	<input type="checkbox"/> Pump							
Casing ID: _____ inches	Low-Flow / Low-Stress Sampling	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	<input type="checkbox"/> Bailer							
Screen Interval: _____ inches	Well Volume Approach Sampling	<input type="checkbox"/> Well Volume Approach Sampling	<input checked="" type="checkbox"/> Pump							
Borehole Diameter: _____ inches	Other (Specify below)	<input type="checkbox"/> Other (Specify below)								
Filter Pack Interval: _____										
Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump										
Bailer Type: n/a										
Pump Type and Serial #: Bladder QED										
Tube/Pump Intake Depth: _____										
Stabilized Pumping Rate: _____										
DEPTH MEASUREMENTS										
INITIAL		FINAL								
Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)							
6.71	1114									
VOLUME CALCULATION AND PRODUCTION INFORMATION										
Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole		Volume Per Foot: _____ feet								
Standing Water Column: _____ Gallons		3 Well Volumes: _____ Gallons								
1 Well Volume: _____ Gallons		5 Well Volumes: _____ Gallons								
5 Well Volumes: _____ Gallons		10 Well Volumes: _____ Gallons								
Total Volumes Produced: _____ Gallons										
Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No										
Water Level Serial #: Herron Dipper T										
WATER QUALITY INDICATOR PARAMETERS										
Sampling Stage	Time (military)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1121	6.74	-	5.5	5.60	136	8.80	6.23	270.0	clear
purge	1134	6.79	0.08	4.7	5.63	128	9.97	2.24	272.8	
	1136	6.79		4.7	5.62	130	9.85	2.27	273.2	
	1138			4.7	5.63	131	9.81	2.26	273.5	
	1140			4.8	5.62	132	9.77	2.42	273.9	
	1142			4.8	5.62	133	9.70	2.35	274.3	
	1144			4.8	5.62	134	9.67	2.28	274.4	
Sample	1146			4.8	5.62	133	9.66	2.29	274.5	
NOTES										
1146 sample time										
ABBREVIATIONS										
Cond. - Actual Conductivity										
FT BTOC - Feet Below Top of Casing										
na - Not Applicable										
min - Not Measured										
ORP - Oxidation-Reduction Potential										
SEC - Specific Electrical Conductance										
SU - Standard Units										
Temp - Temperature										
°C - Degrees Celsius										

LS 105
CCR + state
10/5
25 asi

WELL DEVELOPMENT AND GROUNDWATER MONITORING FIELD FORM

WELL INFORMATION		EVENT TYPE		PURGE INFORMATION	
Site: WDS #3	Client: WPSC	<input type="checkbox"/> Well Development	<input type="checkbox"/> Bailer	<input type="checkbox"/> Bailer	<input checked="" type="checkbox"/> Pump
Project Number: 5484-033 Phase 4 REL	Task #: _____	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Purge Method: _____		
Field Personnel: CMA	Start Date: 4-12-2022	<input type="checkbox"/> Well Volume Approach Sampling	Bailer Type: n/a		
	Finish Date: 4-12-2022	<input type="checkbox"/> Other (Specify below)	Pump Type and Serial #: Bladder QED		
Well ID: LS-105			Tube/Pump Intake Depth: _____		
Casing ID: _____			Stabilized Pumping Rate: _____		
Screen Interval: _____					
Borehole Diameter: _____					
Filter Pack Interval: _____					

DEPTH MEASUREMENTS		VOLUME CALCULATION AND PRODUCTION INFORMATION	
INITIAL	FINAL	Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole	
Depth FT BTOC	Depth FT BTOC	Volume Per Foot: _____	
Time (24-Hour)	Time (24-Hour)	Standing Water Column: _____ feet	
		1 Well Volumes: _____ Gallons	3 Well Volumes: _____ Gallons
		5 Well Volumes: _____ Gallons	10 Well Volumes: _____ Gallons
		Total Volumes Produced: _____ Gallons	
		Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No	

WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1208	0	3.81	-	6.4	5.72	197	4.08	10.09	84.4	clear
purge	1218	1.0	3.91	0.02	5.8	5.87	204	0.20	1.93	-1.9	
	1220	2.0	3.91	0.02	5.8	5.87	204	0.17	1.69	-4.6	
	1222	2.0	↓	↓	5.8	5.87	204	0.15	1.68	-6.6	
	1224	2.5	↓	↓	5.8	5.87	205	0.14	1.63	-7.8	
sample	1226	2.5	↓	↓	5.8	5.87	205	0.13	1.65	-8.6	

ABBREVIATIONS	
Cond - Actual Conductivity	ORP - Oxidation-Reduction Potential
FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance
n/a - Not Applicable	SU - Standard Units
mm - Not Measured	Temp - Temperature
	°C - Degrees Celsius

NOTES
1226 sample time

WELL DEVELOPMENT AND GROUNDWATER MONITORING FIELD FORM

LS 49 R ✓
 NR 500 syng
 13 refill
 2 sample
 just event
 at
 25 psi

PROJECT INFORMATION											
Site: WDS #3	Client: WPSC										
Project Number: 5484-033 Phase 4REL	Start Date: 4-12-2022										
Field Personnel: CMA	Finish Date: 4-12-2022										
Task #: _____	Time: 1418										
Task #: _____	Time: 1416										
WELL INFORMATION											
Well ID: LS-49R	Purge Method: <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Pump										
Casing ID: _____ inches	Bailer Type: n/a										
Screen Interval: _____ inches	Pump Type and Serial #: Bladder QED										
Borehole Diameter: _____ inches	Tube/Pump Intake Depth: _____										
Filter Pack Interval: _____	Stabilized Pumping Rate: _____										
EVENT TYPE											
<input type="checkbox"/> Well Development	<input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole										
<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling											
<input type="checkbox"/> Well Volume Approach Sampling											
<input type="checkbox"/> Other (Specify below)											
DEPTH MEASUREMENTS											
INITIAL	FINAL										
Depth FT BTOC	Depth FT BTOC										
Time (24-Hour)	Time (24-Hour)										
LNAPL											
Groundwater											
DNAPL											
Casing Base											
Water Level Serial #: Herron Dipper T	Water Quality Probe Type and Serial #: YSI Pro DSS										
VOLUME CALCULATION AND PRODUCTION INFORMATION											
Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole											
Volume Per Foot: _____ feet											
Standing Water Column: _____ Gallons	3 Well Volumes: _____ Gallons										
1 Well Volume: _____ Gallons	5 Well Volumes: _____ Gallons										
5 Well Volumes: _____ Gallons	10 Well Volumes: _____ Gallons										
Total Volumes Produced: _____ Gallons											
Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No											
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1418	-	3.51	0.09	7.3	5.79	203	2.25	7.69	131.6	c clear
purge	1428		3.70	0.28	7.0	5.82	230	0.38	47	170.3	cloudy
	1431		3.82	0.40	6.8	5.84	230	0.24	20.31	176.5	
	1434				6.8	5.85	229	0.20	14.07	178.7	
	1437				6.9	5.85	228	0.18	12.04	178.0	
	1440		3.84	0.42	6.8	5.85	227	0.16	13.92	173.5	
	1443				6.8	5.84	225	0.14	11.43	168.0	
Sample	1446		3.88	0.46	6.7	5.85	224	0.15	10.45	164.7	
NOTES											
1446 sample fine											
ABBREVIATIONS											
Cond - Actual Conductivity ORP - Oxidation-Reduction Potential											
FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance											
ini - Not Applicable SU - Standard Units											
mm - Not Measured Temp - Temperature											
°C - Degrees Celsius											

3 wells
 1 sample
 1 event



CHAIN-OF-CUSTODY / Analytical Request Document

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

942448

State

Section A

Required Client Information:

Company: WEC Energy Group
 Address: 333 W. Everlett Street
 Milwaukee, WI 53203
 Email To: patrick.ahrens@wecenergygroup.com
 Phone: 414-221-2835 Fax: (414) 221-4387
 Project Name: Weston Disposal Site #3
 Project Number: Licence #03067, FID#737054120

Section B

Required Project Information:

Report To: Patrick Ahrens
 Copy To:
 Purchase Order No.: 4700004930
 Pace Project Reference:
 Pace Project Manager: Brian Baesten
 Pace Profile #

Section C

Invoice Information:

Attention: Accounts Payable
 Company Name: WEC Energy Group
 Address:
 Pace Quote Reference:
 Pace Project Manager: Brian Baesten
 Pace Profile #

Section D

Required Client Information:

Valid Matrix Codes
 MATRIX CODE
 DRINKING WATER DW
 WASTE WATER WW
 WASTE PRODUCT P
 WASTE SOLID SL
 WASTE LIQUID WL
 WASTE AIR AK
 WASTE OTHER OT
 TISSUE TS

Section E

Required Project Information:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location: WI
 STATE: WI

ITEM #	Valid Matrix Codes	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	PRESERVATIVES	ANALYSIS TEST	Requested Analysis Filtered (Y/N)												Pace Project No./ Lab I.D.
		COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME				DATE	TIME	Alkalinity - Filtered	Sulfate - Filtered	Boron - Filtered	Molybdenum - Filtered	Calcium - Filtered	Magnesium - Filtered	Hardness - Calculated	Residual Chlorine (Y/N)			
1	LS-102	GW	G	4-12	1510	2	1	1	X	X	X	X	X	X	X	X	N				
2	LS-102P	GW	G	-	1530	2	1	1	X	X	X	X	X	X	X	X					
3	LS-10	GW	G	-	1550	2	1	1	X	X	X	X	X	X	X	X					
4	LS-103	GW	G	-	1410	2	1	1	X	X	X	X	X	X	X	X					
5	LS-103P	GW	G	-	1400	2	1	1	X	X	X	X	X	X	X	X					
6	LS-101	GW	G	-	1650	2	1	1	X	X	X	X	X	X	X	X					
7	LS-101P	GW	G	-	1645	2	1	1	X	X	X	X	X	X	X	X					
8	LS-104	GW	G	-	1300	2	1	1	X	X	X	X	X	X	X	X					
9	LS-54	GW	G	-	1305	2	1	1	X	X	X	X	X	X	X	X					
10	LS-54P	GW	G	-	1320	2	1	1	X	X	X	X	X	X	X	X					
11	LS-49R	GW	G	-	1416	2	1	1	X	X	X	X	X	X	X	X					
12	LS-100	GW	G	-	1146	2	1	1	X	X	X	X	X	X	X	X					

RELINQUISHED BY / AFFILIATION [Signature] **DATE** 4-13-08 **TIME** 1525

ACCEPTED BY / AFFILIATION [Signature] **DATE** 4-13-08 **TIME** 1525

ADDITIONAL COMMENTS

Temp in °C: _____ Received on: _____ Ice (Y/N): _____ Custody Sealed: _____ Cooler (Y/N): _____ Samples Intact: _____

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Cathy A. Plockowski*
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 4-13-08

*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.

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: WEC Energy Group		Report To: Patrick Ahrens		Attention: Accounts Payable	
Address: 333 W. Everett Street Milwaukee, WI 53203		Copy To:		Company Name: WEC Energy Group	
Email To: patrick.ahrens@wecenergygroup.com		Purchase Order No.: 4700004930		Address:	
Phone: 414-221-2835 Fax: (414) 221-4357		Project Name: Weston Disposal Site #3		NPDES: _____ UST: _____ RCRA: _____ OTHER: _____	
Requested Due Date/TAT:		Project Number: Licence #03067, FID#737054120		Site Location: WI _____ STATE: _____	

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Analysis Test		Requested Analysis Filtered (Y/N)												Pace Project No./ Lab I.D.															
						DATE	TIME		DATE	TIME	Y/N	TSS	BOD	COD	Alkalinity - Total	Chloride - Total	Sulfate - Total	Boron - Total	Molybdenum - Total	Cadmium - Total	Lead - Total	Manganese - Total		Selenium - Total	Residual Chlorine (Y/N)													
1	SAMPLE ID (A-Z, 0-9/.,-)	DRINKING WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	LHT	GW	G				Unpreserved	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																							
2							3-12	1660																														
3																																						
4																																						
5																																						
6																																						
7																																						
8																																						
9																																						
10																																						
11																																						
12																																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on	Cooler (Y/N)	Custody Sealed	Samples Intact
Please use method EPA 200.7	Jonh... REL	4-13-22	1525	...	4-13-22	1525					
SAMPLER NAME AND SIGNATURE				DATE Signed (MM/DD/YY):							
PRINT Name of SAMPLER: Cody Appert				4-13-22							
SIGNATURE of SAMPLER											

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company: **WEC Energy Group**
 Address: **333 W. Everett Street, Milwaukee, WI 53203**
 Email To: **patrick.ahrens@wecenergygroup.com**
 Phone: **414-221-2835** Fax: **(414) 221-4357**
 Requested Due Date/TAT: _____

Section B Required Project Information:
 Report To: **Patrick Ahrens**
 Copy To: _____
 Purchase Order No.: **4700004930**
 Project Name: **Weston Disposal Site #3**
 Project Number: **Licence #03067, FID#737054120**

Section C Invoice Information:
 Attention: **Accounts Payable**
 Company Name: **WEC Energy Group**
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: **Brian Baesten**
 Pace Profile #: _____

REGULATORY AGENCY

NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
WI	STATE:	

Requested Analysis Filtered (Y/N)

ITEM #	Valid Matrix Codes	Required Client Information	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Mercury - Total	Iron - Total	Calcium - Total	Magnesium - Total	Hardness - Calculated	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE		GW	G	COMPOSITE START COMPOSITE END/GRAB	3-12 1740	5	HNO3 H2SO4 Unpreserved	Analysis Test	X	X	X	X	X	N	
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

ADDITIONAL COMMENTS

Gorb... PEL 4-13-22 15:25... pace 4/13/22 15:25 B

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
<i>Gorb... PEL</i>	<i>4-13-22</i>	<i>15:25</i>	<i>[Signature]</i>	<i>4-18-22</i>	<i>15:25</i>				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *[Signature]*
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed (MM/DD/YY): *4-18-22*

Please use method EPA 2007

CHAIN-OF-CUSTODY / Analytical Request Document

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

942480
CCR

Section A Required Client Information:

Company: WI Public Service		Report To: Patrick Ahrens	
Address: 333 W. Everett St. Milwaukee, WI 53203		Copy To:	
Email To: patrick.ahrens@weenergygroup.com		Purchase Order No.: 4700004930	
Phone: 414-221-2835	Fax: 414-221-4357	Project Name: WDS#3 CCR Landfill - April 2022 Samples	
Requested Due Date/TAT: Normal TAT			

Section B Required Project Information:

Attention: Accountants Payable	
Company Name: We Energies	
Address: 333 W. Everett St., Milwaukee, WI 532	
Pace Quote Reference:	
Pace Project Manager: Brian Bastien	
Pace Profile #:	

Section C Invoice Information:

REGULATORY AGENCY	
NPDES	GROUND WATER
UST	RCRA
OTHER: DRINKING WATER	
Site Location	STATE: WI

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER: DW WASTE WATER: WW WATER PRODUCT: P SOILS/SOLID: SL OIL: OL WIPE: WF AIR: AR OTHER: OT ISSUE: IS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES		Requested Analyte Filtered (Y/N)	Pace Project No./ Lab I.D.
		COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME		
1	LS-100			4-12	1146				
2	LS-101				1050				
3	LS-105				1226				
4	LS-106				1348				
5	LS-107				1013				
6	QA/QC1				1720				
7	EB1				1348				
8	LS-106 (high turbidity dup)								
9									
10									
11									
12									

See comments

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	Temp in °C	Received on (Y/N)
LS-106(HTD) is filtered Please analyze selenium with method EPA 200.8	04-12-22	1525	04-13-22	505		
LS-106 Pace Nate Keller (RAMB)						
no additional filtered analysis						

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YYYY): 4-13-22	
PRINT Name of SAMPLER: Cody Appskamp		Cooler (Y/N)	
SIGNATURE of SAMPLER:		Custody Sealed (Y/N)	
		Samples Intact (Y/N)	

To: ERIC KOVATCH
PSB Annex A231



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

Report Date: Monday, December 5, 2022

The following are the analytical results for samples received by Laboratory Services on 11/10/2022 :

Sample Description: LS-100 Weston Disposal Site #3 - Ash Landfill CCR Well
Sample ID: AE63596 **Serial/Impact ID:**
Sample Collector: C APPELKAMP **Sample Collection Date:** 10/25/22 **Collection Time:** 12:54

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	20.4	17.3	ug/L	J	EPA 200.7	10/28/22	020
Total Calcium	17100	114	ug/L		EPA 200.7	10/28/22	020
Total Chloride	2.3	0.43	mg/L		EPA 300.0	10/27/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	10/27/22	020
Total Sulfate	15.8	0.44	mg/L		EPA 300.0	10/27/22	020
Total Dissolved Solids	112	8.7	mg/L		Std Mtd 2540 C	10/27/22	020
Total Copper	Less Than	0.0034	mg/L		EPA 200.7	10/28/22	020
Total Manganese	0.0047	0.0015	mg/L	J	EPA 200.7	10/28/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	10/28/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	10/28/22	020
Dissolved Calcium	19	0.114	mg/L		EPA 200.7	10/28/22	020
Dissolved Magnesium	3.22	0.182	mg/L		EPA 200.7	10/28/22	020
Dissolved Potassium	1.49	0.325	mg/L		EPA 200.7	10/28/22	020
Dissolved Sodium	4.99	0.350	mg/L		EPA 200.7	10/28/22	020
Total Alkalinity as CaCO3	42.8	5	mg/L		SM 2320 B-1997	11/1/22	020
Carbonate Ion	Less Than	5	mg/L		CO3	11/1/22	020
Bicarbonate Ion	42.8	5	mg/L		HCO3	11/1/22	020
Nitrate as N	2.8	0.044	mg/L	M0	EPA 353.2	10/27/22	020
Nitrite as N	Less Than	0.021	mg/L		EPA 300.0	10/27/22	020
Dissolved Chloride	2.2	0.43	mg/L	M0	EPA 300.0	11/9/22	020
Dissolved Fluoride	Less Than	0.095	mg/L	M0	EPA 300.0	11/9/22	020
Dissolved Sulfate	15.9	0.44	mg/L		EPA 300.0	11/9/22	020
Field Water Level	11.39	0.05	feet		H2OD	10/25/22	CWA
Field Temperature	12	0.1	Degrees C		TEMP	10/25/22	CWA
Field pH	5.1	0.1	Units		FIELDPH	10/25/22	CWA
Field Conductivity	146	0	umhos		FCOND25	10/25/22	CWA
Dissolved Oxygen-Field	2.65	0.1	mg/l		FIELDDO	10/25/22	CWA
Turbidity	2.14	0.1	NTU'S		EPA 180.1	10/25/22	CWA
Redox Potential	242	1	mV		ASTM D1498-93	10/25/22	CWA

Sample Description: LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well
Sample ID: AE63597 **Serial/Impact ID:**
Sample Collector: C APPELKAMP **Sample Collection Date:** 10/25/22 **Collection Time:** 11:50

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	Less Than	17.3	ug/L		EPA 200.7	10/28/22	020
Total Calcium	6300	114	ug/L		EPA 200.7	10/28/22	020
Total Chloride	0.49	0.43	mg/L	J	EPA 300.0	10/27/22	020

Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	10/27/22	020
Total Sulfate	2.7	0.44	mg/L		EPA 300.0	10/27/22	020
Total Dissolved Solids	58.0	8.7	mg/L		Std Mtd 2540 C	10/27/22	020
Total Copper	0.0046	0.0034	mg/L	J	EPA 200.7	10/28/22	020
Total Manganese	0.0020	0.0015	mg/L	B	EPA 200.7	10/28/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	10/28/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	10/28/22	020
Dissolved Calcium	7.03	0.114	mg/L		EPA 200.7	10/28/22	020
Dissolved Magnesium	1.1	0.182	mg/L		EPA 200.7	10/28/22	020
Dissolved Potassium	1.39	0.325	mg/L		EPA 200.7	10/28/22	020
Dissolved Sodium	3.07	0.325	mg/L		EPA 200.7	10/28/22	020
Total Alkalinity as CaCO3	26.2	5	mg/L		SM 2320 B-1997	11/1/22	020
Carbonate Ion	Less Than	5	mg/L		CO3	11/1/22	020
Bicarbonate Ion	26.2	5	mg/L		HCO3	11/1/22	020
Nitrate as N	0.44	0.044	mg/L		EPA 353.2	10/27/22	020
Nitrite as N	Less Than	0.021	mg/L		EPA 300.0	10/27/22	020
Dissolved Chloride	0.70	0.43	mg/L	J	EPA 300.0	11/9/22	020
Dissolved Fluoride	Less Than	0.095	mg/L		EPA 300.0	11/9/22	020
Dissolved Sulfate	2.9	0.44	mg/L		EPA 300.0	11/9/22	020
Field Water Level	14.40	0.05	feet		H2OD	10/25/22	CWA
Field Temperature	11	0.1	Degrees C		TEMP	10/25/22	CWA
Field pH	5.4	0.1	Units		FIELDPH	10/25/22	CWA
Field Conductivity	64	0	umhos		FCOND25	10/25/22	CWA
Dissolved Oxygen-Field	6.48	0.1	mg/l		FIELDDO	10/25/22	CWA
Turbidity	2.78	0.1	NTU'S		EPA 180.1	10/25/22	CWA
Redox Potential	224	1	mV		ASTM D1498-93	10/25/22	CWA

Sample Description: LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well

Sample ID: AE63598 Serial/Impact ID:
Sample Collector: C APPELKAMP Sample Collection Date: 10/25/22 Collection Time: 14:14

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	41.1	17.3	ug/L		EPA 200.7	10/28/22	020
Total Calcium	23200	114	ug/L		EPA 200.7	10/28/22	020
Total Chloride	1.8	0.43	mg/L	J	EPA 300.0	10/27/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	10/27/22	020
Total Sulfate	25.3	0.44	mg/L		EPA 300.0	10/27/22	020
Total Dissolved Solids	160	8.7	mg/L		Std Mtd 2540 C	10/27/22	020
Total Copper	0.0034	0.0034	mg/L	J	EPA 200.7	10/28/22	020
Total Manganese	1.26	0.0015	mg/L		EPA 200.7	10/28/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	10/28/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	10/28/22	020
Dissolved Calcium	24.8	0.114	mg/L		EPA 200.7	10/28/22	020
Dissolved Magnesium	5.81	0.182	mg/L		EPA 200.7	10/28/22	020
Dissolved Potassium	1.33	0.325	mg/L		EPA 200.7	10/28/22	020
Dissolved Sodium	4.12	0.350	mg/L		EPA 200.7	10/28/22	020
Total Alkalinity as CaCO3	75.8	5	mg/L		SM 2320 B-1997	11/1/22	020
Carbonate Ion	Less Than	5	mg/L		CO3	11/1/22	020
Bicarbonate Ion	75.8	5	mg/L		HCO3	11/1/22	020
Nitrate as N	Less Than	0.044	mg/L		EPA 353.2	10/27/22	020
Nitrite as N	Less Than	0.021	mg/L		EPA 300.0	10/27/22	020
Dissolved Chloride	1.8	0.43	mg/L	J	EPA 300.0	11/9/22	020
Dissolved Fluoride	Less Than	0.095	mg/L		EPA 300.0	11/9/22	020
Dissolved Sulfate	25.3	0.44	mg/L		EPA 300.0	11/9/22	020
Field Water Level	6.02	0.05	feet		H2OD	10/25/22	CWA
Field Temperature	12	0.1	Degrees C		TEMP	10/25/22	CWA
Field pH	5.6	0.1	Units		FIELDPH	10/25/22	CWA
Field Conductivity	230	0	umhos		FCOND25	10/25/22	CWA
Dissolved Oxygen-Field	0.11	0.1	mg/l		FIELDDO	10/25/22	CWA

Turbidity	4.45	0.1	NTU'S	EPA 180.1	10/25/22	CWA
Redox Potential	7.5	1	mV	ASTM D1498-93	10/25/22	CWA

Sample Description: LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well

Sample ID: AE63599 Serial/Impact ID:
Sample Collector: C APPELKAMP Sample Collection Date: 10/25/22 Collection Time: 15:15

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	24.2	17.3	ug/L	J	EPA 200.7	10/28/22	020
Total Calcium	17000	114	ug/L		EPA 200.7	10/28/22	020
Total Chloride	2.5	0.43	mg/L		EPA 300.0	10/27/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	10/27/22	020
Total Sulfate	2.2	0.44	mg/L		EPA 300.0	10/27/22	020
Total Dissolved Solids	122	8.7	mg/L		Std Mtd 2540 C	10/27/22	020
Total Copper	0.0068	0.0034	mg/L	J	EPA 200.7	10/28/22	020
Total Manganese	1.35	0.0015	mg/L		EPA 200.7	10/28/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	10/28/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	10/28/22	020
Dissolved Calcium	18.2	0.114	mg/L		EPA 200.7	10/28/22	020
Dissolved Magnesium	6.66	0.182	mg/L		EPA 200.7	10/28/22	020
Dissolved Potassium	1.45	0.325	mg/L		EPA 200.7	10/28/22	020
Dissolved Sodium	4.40	0.350	mg/L		EPA 200.7	10/28/22	020
Total Alkalinity as CaCO3	75.5	5	mg/L		SM 2320 B-1997	11/1/22	020
Carbonate Ion	Less Than	5	mg/L		CO3	11/1/22	020
Bicarbonate Ion	75.5	5	mg/L		HCO3	11/1/22	020
Nitrate as N	Less Than	0.044	mg/L		EPA 353.2	10/27/22	020
Nitrite as N	Less Than	0.021	mg/L		EPA 300.0	10/27/22	020
Dissolved Chloride	2.5	0.43	mg/L		EPA 300.0	11/9/22	020
Dissolved Fluoride	Less Than	0.095	mg/L		EPA 300.0	11/9/22	020
Dissolved Sulfate	2.2	0.44	mg/L		EPA 300.0	11/9/22	020
Field Water Level	12.38	0.05	feet		H2OD	10/25/22	CWA
Field Temperature	13	0.1	Degrees C		TEMP	10/25/22	CWA
Field pH	5.6	0.1	Units		FIELDPH	10/25/22	CWA
Field Conductivity	160	0	umhos		FCOND25	10/25/22	CWA
Dissolved Oxygen-Field	0.13	0.1	mg/l		FIELDDO	10/25/22	CWA
Turbidity	19.10	0.1	NTU'S		EPA 180.1	10/25/22	CWA
Redox Potential	56.7	1	mV		ASTM D1498-93	10/25/22	CWA

Sample Description: LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well

Sample ID: AE63600 Serial/Impact ID:
Sample Collector: C APPELKAMP Sample Collection Date: 10/25/22 Collection Time: 10:47

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	31.2	17.3	ug/L	J	EPA 200.7	10/28/22	020
Total Calcium	36200	114	ug/L		EPA 200.7	10/28/22	020
Total Chloride	10.4	0.43	mg/L		EPA 300.0	10/27/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	10/27/22	020
Total Sulfate	89.1	2.2	mg/L		EPA 300.0	10/28/22	020
Total Dissolved Solids	218	8.7	mg/L		Std Mtd 2540 C	10/27/22	020
Total Copper	0.0042	0.0034	mg/L	J	EPA 200.7	10/28/22	020
Total Manganese	0.0066	0.0015	mg/L	B	EPA 200.7	10/28/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	10/28/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	10/28/22	020
Dissolved Calcium	38.2	0.114	mg/L		EPA 200.7	10/28/22	020
Dissolved Magnesium	8.56	0.182	mg/L		EPA 200.7	10/28/22	020
Dissolved Potassium	1.85	0.325	mg/L		EPA 200.7	10/28/22	020

Dissolved Sodium	6.67	0.350	mg/L		EPA 200.7	10/28/22	020
Total Alkalinity as CaCO3	40.7	5	mg/L		SM 2320 B-1997	11/1/22	020
Carbonate Ion	Less Than	5	mg/L		CO3	11/1/22	020
Bicarbonate Ion	40.7	5	mg/L		HCO3	11/1/22	020
Nitrate as N	1.5	0.044	mg/L	H1	EPA 353.2	10/27/22	020
Nitrite as N	Less Than	0.021	mg/L	H1	EPA 300.0	10/27/22	020
Dissolved Chloride	10.4	0.43	mg/L		EPA 300.0	11/9/22	020
Dissolved Fluoride	Less Than	0.095	mg/L		EPA 300.0	11/9/22	020
Dissolved Sulfate	94.4	2.2	mg/L		EPA 300.0	11/9/22	020
Field Water Level	5.85	0.05	feet		H2OD	10/25/22	CWA
Field Temperature	12	0.1	Degrees C		TEMP	10/25/22	CWA
Field pH	5.3	0.1	Units		FIELDPH	10/25/22	CWA
Field Conductivity	316	0	umhos		FCOND25	10/25/22	CWA
Dissolved Oxygen-Field	0.51	0.1	mg/l		FIELDDO	10/25/22	CWA
Turbidity	2.19	0.1	NTU'S		EPA 180.1	10/25/22	CWA
Redox Potential	215.6	1	mV		ASTM D1498-93	10/25/22	CWA

Sample Description: QAQC1 Weston Disposal Site #3 - Ash Landfill CCR Well

Sample ID: AE63601 Serial/Impact ID:
Sample Collector: C APPELKAMP Sample Collection Date: 10/25/22 Collection Time: 00:00

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	18.6	17.3	ug/L	J	EPA 200.7	10/28/22	020
Total Calcium	16900	114	ug/L		EPA 200.7	10/28/22	020
Total Chloride	2.2	0.43	mg/L		EPA 300.0	10/27/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	10/27/22	020
Total Sulfate	16.1	0.44	mg/L		EPA 300.0	10/27/22	020
Total Dissolved Solids	102	8.7	mg/L		Std Mtd 2540 C	10/27/22	020
Total Copper	0.0042	0.0034	mg/L	J	EPA 200.7	10/28/22	020
Total Manganese	0.0046	0.0015	mg/L	J, B	EPA 200.7	10/28/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	10/28/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	10/28/22	020
Dissolved Calcium	18.3	0.114	mg/L		EPA 200.7	10/28/22	020
Dissolved Magnesium	2.92	0.182	mg/L		EPA 200.7	10/28/22	020
Dissolved Potassium	1.42	0.325	mg/L		EPA 200.7	10/28/22	020
Dissolved Sodium	4.81	0.350	mg/L		EPA 200.7	10/28/22	020
Total Alkalinity as CaCO3	42.9	5	mg/L		SM 2320 B-1997	11/1/22	020
Carbonate Ion	Less Than	5	mg/L		CO3	11/1/22	020
Bicarbonate Ion	42.9	5	mg/L		HCO3	11/1/22	020
Nitrate as N	2.8	0.044	mg/L	H1	EPA 353.2	10/27/22	020
Nitrite as N	Less Than	0.021	mg/L	H1	EPA 300.0	10/27/22	020
Dissolved Chloride	2.3	0.43	mg/L		EPA 300.0	11/9/22	020
Dissolved Fluoride	Less Than	0.095	mg/L		EPA 300.0	11/9/22	020
Dissolved Sulfate	16.1	0.44	mg/L		EPA 300.0	11/9/22	020

Sample Description: EB1 Weston Disposal Site #3 - Ash Landfill CCR Well

Sample ID: AE63602 Serial/Impact ID:
Sample Collector: C APPELKAMP Sample Collection Date: 10/25/22 Collection Time: 18:00

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	19.0	17.3	ug/L	J	EPA 200.7	10/28/22	020
Total Calcium	Less Than	114	ug/L	500	EPA 200.7	10/28/22	020
Total Chloride	Less Than	0.43	mg/L		EPA 300.0	10/27/22	020
Total Fluoride	Less Than	0.095	mg/L		EPA 300.0	10/27/22	020
Total Sulfate	Less Than	0.44	mg/L		EPA 300.0	10/27/22	020
Total Dissolved Solids	Less Than	8.7	mg/L		Std Mtd 2540 C	10/27/22	020

Total Copper	Less Than	0.0034	mg/L	EPA 200.7	10/28/22	020
Total Manganese	Less Than	0.0015	mg/L	EPA 200.7	10/28/22	020
Total Silver	Less Than	0.0032	mg/L	EPA 200.7	10/28/22	020
Total Zinc	Less Than	0.0116	mg/L	EPA 200.7	10/28/22	020
Dissolved Calcium	Less Than	0.114	mg/L	EPA 200.7	10/28/22	020
Dissolved Magnesium	Less Than	0.182	mg/L	EPA 200.7	10/28/22	020
Dissolved Potassium	Less Than	0.325	mg/L	EPA 200.7	10/28/22	020
Dissolved Sodium	Less Than	0.350	mg/L	EPA 200.7	10/28/22	020
Total Alkalinity as CaCO ₃	Less Than	5	mg/L	SM 2320 B-1997	11/1/22	020
Carbonate Ion	Less Than	5	mg/L	CO ₃	11/1/22	020
Bicarbonate Ion	Less Than	5	mg/L	HCO ₃	11/1/22	020
Nitrate as N	Less Than	0.044	mg/L	EPA 353.2	10/27/22	020
Nitrite as N	Less Than	0.021	mg/L	EPA 300.0	10/27/22	020
Dissolved Chloride	Less Than	0.43	mg/L	EPA 300.0	11/9/22	020
Dissolved Fluoride	Less Than	0.095	mg/L	EPA 300.0	11/9/22	020
Dissolved Sulfate	Less Than	0.44	mg/L	EPA 300.0	11/9/22	020

Sample Description: LS-106 DUP Weston Disposal Site #3 - Ash Landfill CCR Well

Sample ID: AE63603 Serial/Impact ID:
Sample Collector: C APPELKAMP Sample Collection Date: 10/25/22 Collection Time: 15:15

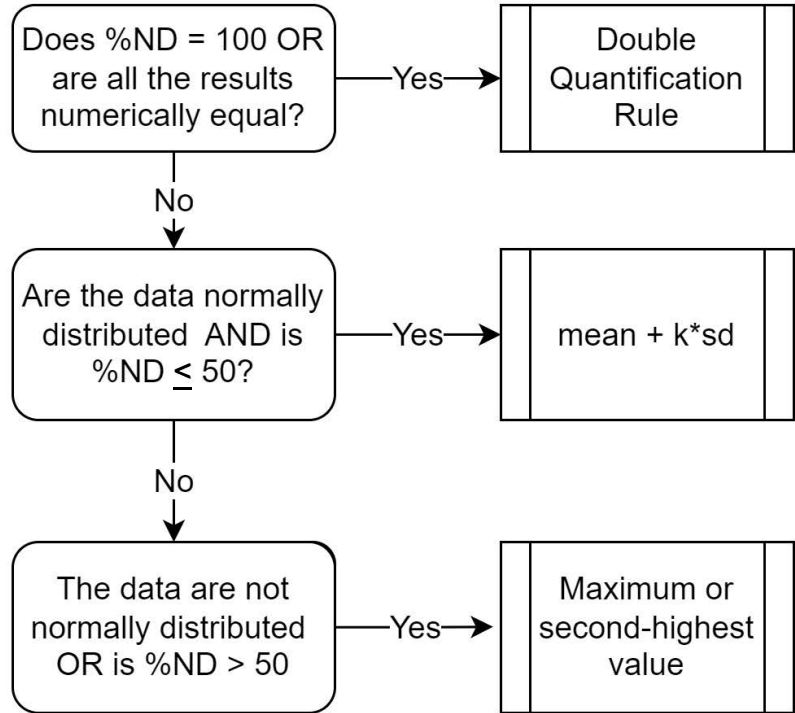
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Dissolved Solids	114	8.7	mg/L		Std Mtd 2540 C	10/27/22	020
Dissolved Calcium	18.6	0.114	mg/L		EPA 200.7	11/3/22	020
Dissolved Magnesium	6.93	0.182	mg/L		EPA 200.7	11/3/22	020
Dissolved Potassium	1.78	0.325	mg/L		EPA 200.7	11/3/22	020
Dissolved Sodium	4.86	0.350	mg/L		EPA 200.7	11/3/22	020
Total Alkalinity as CaCO ₃	77.7	5	mg/L		SM 2320 B-1997	11/2/22	020
Carbonate Ion	Less Than	5	mg/L		CO ₃	11/2/22	020
Bicarbonate Ion	77.7	5	mg/L		HCO ₃	11/2/22	020
Dissolved Chloride	2.6	0.43	mg/L		EPA 300.0	11/9/22	020
Dissolved Fluoride	Less Than	0.095	mg/L		EPA 300.0	11/9/22	020
Dissolved Sulfate	2.4	0.44	mg/L		EPA 300.0	11/9/22	020

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

Sample Comments:

APPENDIX B
STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND
VALUES

Notes
%ND = Percent non-detected samples
sd = standard deviation
k = kappa for site-wide false positive rate
<u>Alpha Levels</u>
Confidence Limit = 0.1



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.