

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

January 31, 2023

Ms. Alicia Zewicki Waukesha Service Center Wisconsin Department of Natural Resources 141 NW Barstow Street, Room 180 Waukesha, WI 53188

submitted via email

RE: CALEDONIA ASH LANDFILL LICENSE #3232 - FID# 252108450 NR 506.20(3) 2022 ANNUAL CCR REPORT

Dear Ms. Zewicki:

This report is submitted as required per NR 506.20(3) and will be placed in the facility operating record. The report consists of the following attachments:

- 2022 fugitive dust control report [per NR 506.20(3)(a)]
- 2022 inspection report [per NR 506.20(3)(b)]
- 2022 groundwater monitoring and corrective action report [per NR 506.20(3)(c)]
- 2022 leachate pipe cleaning and inspection report [per NR 506.20(3)(d)]

Copies of the annual fugitive dust and inspection reports (listed above) are already available online at <u>https://www.we-energies.com/environment/coal-combustion</u> (the company website). A copy of the annual groundwater monitoring and corrective action report will be placed on the company website in early March 2023.

Please contact me at 414.221-2457 or <u>eric.kovatch@wecenergygroup.com</u> should you have any questions.

Sincerely,

in Ponto

Eric P. Kovatch Facility Manager – Senior Environmental Consultant

cc: Mark Peters (WDNR)

Attachments: Appendices A through D (reports listed above)

[File:\2023-01-31 Caledonia CCR NR506 Annual Report for WDNR]

APPENDIX A

2022 FUGITIVE DUST CONTROL REPORT [PER NR 506.20(3)(A)]

2022 ANNUAL FUGITIVE DUST CONTROL REPORT CALEDONIA ASH LANDFILL

1.0 INTRODUCTION

This annual fugitive dust control report has been prepared to meet the requirements of 40 CFR 257.80(c).

The active area of the Caledonia Ash Landfill is divided into a disposal area and various segregated coal combustion residuals (CCR) stockpiles, which are staged for eventual beneficial utilization. The Caledonia Ash Landfill also includes areas that have been filled and have a final cover in place.

2.0 FUGITIVE DUST CONTROL MEASURES

Fugitive dust control measures are described in Section 2.0 of the Fugitive Dust Control Plan, Caledonia Ash Landfill, dated October 19, 2015. Effectiveness of the Fugitive Dust Control Plan is evaluated during the weekly and annual inspections. A review of the weekly and annual inspections contained in the operating record was completed during the preparation of this annual fugitive dust control report and confirms that the fugitive dust control measures implemented at the Caledonia Ash Landfill are effective.

3.0 CITIZEN COMPLAINTS

The procedure for logging citizen complaints is described in Section 3.0 of the Fugitive Dust Control Plan, Caledonia Ash Landfill, dated October 19, 2015. There were no citizen complaints associated with the Caledonia Ash Landfill that were logged during the period covered by this annual report.

APPENDIX B

2022 INSPECTION REPORT [PER NR 506.20(3)(B)]



Consulting December 19, 2022 Engineers and Project 2103691

Scientists

Mr. Eric Kovatch WEC Energy Group – Business Services, LLC 333 W. Everett Street, A231 Milwaukee, Wisconsin 53203

Re: Caledonia Ash Landfill Inspection Report We Energies Town of Caledonia, Racine County Wisconsin

Dear Mr. Kovatch:

GEI Consultants, Inc. (GEI) is pleased to provide this landfill inspection report for the We Energies Caledonia Ash Landfill. The inspection was completed to comply with 40 CFR 257 Subpart D – Standards for the Disposal of Coal Combustion Residuals (CCR) in Landfills and Surface Impoundments and specifically with § 257.84(b) Annual inspections by a qualified professional engineer.

§ 257.84 Inspection Requirements for CCR Landfills

(b) Annual inspections by a qualified professional engineer.

(1) Existing and new CCR landfills and any lateral expansion of a CCR landfill must be inspected on a periodic basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The inspection must, at a minimum, include:

(i) A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., the results of inspections by a qualified person and results of previous annual inspections); and

(ii) A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit.

(2) *Inspection report.* The qualified professional engineer must prepare a report following each inspection that addresses the following:

(i) Any changes in geometry of the structure since the previous annual inspection;

(ii) The approximate volume of CCR contained in the unit at the time of the inspection;

(iii) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit; and

(iv) Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

Background

The We Energies Caledonia Ash Landfill is located in the North 1/2 of Section 1, Township 4 North, Range 22 East, Village of Caledonia, Racine County, Wisconsin. The landfill is permitted by the Wisconsin Department of Natural Resources (WDNR) under License Number 03232. Figure 1 -Site Location Figure, shows the location of the landfill relative to the Oak Creek Power Plant and Elm Road Generating Station. The landfill was permitted by the WDNR on August 27, 1987, with the issuance of a Conditional Plan of Operation Approval. The facility is licensed and approved as a 45-acre, 4,050,000 cubic yard (cy) landfill. The landfill was divided into 18 sequential cells, 10 cells at base grade and 8 cells overlying the base grade cells. However, based upon the May 19, 2010, Plan of Operation Modification Approval, the landfill development plan has been revised to eliminate the overlying cells. Base grade cells 1, 2, 3, 4, 6, 8, and 10 have been constructed. Cells 12, 14, and 16 are permitted but have not been constructed. Cell 1 has been closed and the perimeter slopes of Cell 2 have been closed.

GEI was retained to perform an annual inspection of the landfill in compliance with § 257.84(b) *Annual inspections by a qualified professional engineer*. The inspection was performed on October 12, 2021. Copies of the site location figure and landfill inspection photo log are appended to this letter-report and constitute the entirety of the report.

Site Inspection

The landfill site inspection was performed by Mr. John M. Trast, P.E. D.GE on December 7, 2022. The annual site inspection included an inspection of the perimeter berms, waste surfaces and slopes, final covers, interior and exterior storm water controls, the leachate collection lift station, the leachate storage and load-out controls, the leachate load-out pad, the site access road, and the cell entrance.

There were no signs or evidence of any distress or malfunction of the CCR unit, or any conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit. The perimeter berms and waste slopes did not show any evidence of structural weakness or instability. The leachate lift station and load-out facilities were operational. The interior and exterior storm water controls were free of obstruction and provided plenty of capacity for storm water storage and conveyance. The access road, load-out pad, and cell entrance were clean and free of obstructions. The fugitive dust control plan is effective as there was no evidence of fugitive dust around the perimeter of the landfill and no observed dust from the screening and stockpiling operation.

At the time of the inspection there is approximately 1,660,000 cubic yards of CCR disposed of in the Caledonia Ash Landfill.

Conclusion

On December 7, 2022, a GEI licensed professional engineer completed an annual inspection of the Caledonia Ash Landfill in compliance with § 257.84(b) Annual inspections by a qualified professional engineer. The landfill appeared to be in excellent condition. On the exterior slopes the vegetation is well established with no significant erosion, no woody vegetation, no animal burrows, and no areas of instability or structural weakness. On the interior of the landfill the ash is graded and compacted with no significant erosion rills observed. Contact stormwater is routed, as designed the infiltration area, and there was no water observed or ponded within the disposal area. The beneficial use stockpiles and processing area is neat an orderly, graded to drain, and no

visible dust was observed during the inspection of the landfill or evidence of fugitive dust outside the limits of the landfill.

The inspection was completed by John M. Trast, P.E., D.GE I am a licensed professional engineer in the State of Wisconsin in accordance with the requirements of Chapter A-E 4, Wisconsin Administrative Code; that this document has been prepared in accordance with the Rules of Professional Conduct in Chapter A-E 8, Wisconsin Administrative Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in Chapters NR 500 to 538, Wisconsin Administrative Code and 40 CFR 257.

If you have any questions regarding this report, please contact me at 920-455-8299.

Sincerely,

GEI CONSULTANTS, INC.

John M. Trast, P.E., D.GE Vice President

Attachments: Figure 1 - Site Location Figure Caledonia Inspection Form Landfill Inspection Photo Log



JXT:cah

K:\WEC Energy Group\2103691_WEC Active CCR Landfills Engineering Assistance\05_In_Progress\Caledonia\CCR Annual Inspection\2022 Inspection\01_R2103691 WEC_Caledonia 2022 CCR Landfill Inspection Rpt.docx



CALEDONIA LANDFILL - ANNUAL INSPECTION & CONDITION SUMMARY

INSPECTOR: John M. Trast, P.E., D.GE INSPECTION DATE/TIME: 12/7/22 12:00 AM

WEATHER:				
Temperature:	35° F			
Conditions:	Overcast			
Wind:	Moderate			
Wind Direction:	W			
Precipitation:	None			
LEACHATE COLLECTION SYSTEM	Л:			
Load-out Facility:	South Tank	North Tank	Lift Station:	
High level alarms:	No	No	Pump #1:	Green
Low level alarms:	Yes	No	Pump #2:	Green
Leak alarms	No	No	Control Panel:	Green
Levels:	Empty	1/4	Inlet Pipes:	Exposed
Pump:	Green	Green		
Pad Condition:	G	ood		

Visual inspection of all leachate manhole inverts performed on Wednesday, December 7, 2022

Note: Pumps alternating between South Tank and North Tank.

WETLAND CONTROL		
Pump station operational :	Yes	Pump Discharge: Yes
Wetland level below culvert inlet : Culvert inlet clear :	Yes Yes	Note: If wetland level is above culvert inlet, make sure pump is discharging into ditch on
Comments :	east side of access road	

Note: Free of debris/floatables.

STORMWATER / EROSION CONT	ROLS / SLOPE S	TABILITY	
Landfill Perimeter Ditches:	I		
Ditch Check Dams :	I		
Silt Fence @ Soil Stockpiles :			
Diversion Berms, Ditches & Check Dams @ Clay Stockpile :		Stability/Erosion of Covers & Waste Slopes:	
Culverts (Inlets & Outlets) :	7	Appear stable & no significant erosion:	Yes
Comments :	Silt fence around r	northern stockpile area is in poor condition.	
Is this a special	inspection after a	rainfall event of greater than 0.5"? No	
		on:	

Note: Check mark indicates that the stormwater controls are adequate.

LANDFILL OPERATIONS:		
Fugitive Dust Control:	In-Cell Stormwater Management	
Tracking Pads : 🗵	Upper Ditch : 🗹	

Comments:	None			
Sign of Recent Dust Deposition:		No	Standing Water :	No
Airbourne Dust Visible:		No	Sediment :	Good
Landfill Surfaces Groomed:	7		Reservoirs : 🗹	
Access Road Clean:	\checkmark		Culverts : 🗹	
Wheel Wash :	\		Down Flume : 🗹	
Cattle Guards :	7		Lower Ditch :	
_				

Note: Check mark indicates that the features are acceptable.





Photo No. 1: East interior berm of Cell 10 looking north 12/07/2022



Photo No. 2: Bottom ash stockpiled for beneficial use inside Cell 10 looking west on 12/07/2022





Photo No. 3: Tire wash in Cell 8 looking north on 12/07/2022



Photo No. 4: West perimeter berm looking south 12/07/2022





Photo No. 5: West perimeter berm looking south 12/07/2022



Photo No. 6: South perimeter berm looking east on 12/07/2022





Photo No. 7: East perimeter berm looking south 12/07/2022



Photo No. 8: East perimeter berm looking south 12/07/2022

APPENDIX C

2022 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT [PER NR 506.20(3)(C)]

Prepared for We Energies

Date January 31, 2023

Project No. 1940102327

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CALEDONIA ASH LANDFILL



2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CALEDONIA ASH LANDFILL

Project name	Ash Landfill Database Management, Sampling, and Reporting
Project no.	1940102327
Recipient	We Energies
Document type	Annual Groundwater Monitoring and Corrective Action Report
Revision	FINAL
Date	January 31, 2023
Prepared by	Andrew F. Hardwick
Checked by	Eric J. Tlachac, PE
Approved by	Nathaniel R. Keller, PG

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TABLES (IN TEXT)

Table A	2021-2022	Detection	Monitorina	Program	Summarv

TABLES (ATTACHED)

- Table 1 Groundwater Elevations
- Table 2
 Analytical Results Appendix III Parameters
- Table 3 Statistical Background Values

FIGURES (ATTACHED)

- Figure 1 Monitoring Well Location Map
- Figure 2 Potentiometric Surface Map, November 8-9, 2021
- Figure 3 Potentiometric Surface Map, May 4-5, 2022
- Figure 4 Potentiometric Surface Map, November 7, 2022

APPENDICES

- Appendix A Laboratory Reports
- Appendix B Statistical Methodology for Determination of Background Values

ACRONYMS AND ABBREVIATIONS

§	Section
40 C.F.R.	Title 40 of the Code of Federal Regulations
ASD	Alternate Source Demonstration
В	boron
Са	calcium
CCR	coal combustion residuals
GWPS	groundwater protection standard
mg/L	milligrams per liter
NA	not applicable
NRT/OBG	Natural Resource Technology, Inc., an OBG Company
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SO4	sulfate
SSI	statistically significant increase
TBD	to be determined
TDS	total dissolved solids

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 Caledonia Ash Landfill located in Caledonia, Wisconsin.

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

- Boron (B) W08D, W09D, W10D, W49 and W50
- Calcium (Ca) W08D
- Sulfate (SO₄) W08D, W09D, W10D, W49 and W50
- Total Dissolved Solids (TDS) W08D and W50

Alternate Source Demonstrations (ASDs) prepared in prior years provided justification that the SSIs observed during the Detection Monitoring Program were not due to a release from the coal combustion residuals (CCR) unit but were either from an error in sampling or analysis or from naturally occurring conditions (*e.g.*, natural variation in groundwater quality).

The Caledonia Ash 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 We Energies to provide the information required by 40 C.F.R. § 257.90(e) the Caledonia Ash Landfill located in Caledonia, WI.

In accordance with 40 C.F.R. § 257.90(e), the owner or operator of a 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 a statistically significant increase 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 a statistically significant increase 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 Caledonia Ash 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 Caledonia Ash Landfill remains in the detection monitoring program in accordance with 40 C.F.R. \S 257.94.

3. KEY ACTIONS COMPLETED IN 2022

The detection monitoring program is summarized in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background (upgradient) and downgradient monitoring wells, is presented in **Figure 1**. No changes were made to the monitoring system in 2022. In general, one groundwater sample was collected from each background and compliance well during each monitoring event. All samples were collected and analyzed in accordance with the *Sampling and Analysis Plan* (SAP; Natural Resource Technology, an OBG Company [NRT/OBG], 2017). 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 **Tables 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, Caledonia Ash 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 November 8-9, 2021 (Detection Monitoring Round 9) and May 5, 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 November 23, 2020 for the Caledonia Ash 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.

Detection Round	Sampling Date	Analytical Data Receipt Date	Parameters Collected	SSI Wells (Parameters)	SSI(s) Determination Date	ASD Completion Date ¹
9	November 8-9, 2021	December 15, 2021	Appendix III	W08D (B, Ca, SO4, TDS)	March 15, 2022	NA
				W09D (SO ₄)		
				W10D (B, SO ₄)		
				W49 (B, SO ₄)		
				W50 (B, SO4, TDS)		
10	May 4-5, 2022	May 22, 2022	Appendix III	W08D (B, Ca, SO ₄ , TDS)	August 23, 2022	NA
				W09D (B, SO ₄)		
				W10D (B, SO ₄)		
				W49 (B, SO ₄)		
				W50 (B, SO ₄ , TDS)		
11	November 7, 2022	January 6, 2023	Appendix III	TBD	TBD	TBD
					Before April 8, 2023	

Table A. 2021-2022 Detection Monitoring Program Summary

Notes:

NA: not applicable

TBD: to be determined

¹ASDs previously completed on April 15, 2018 and November 23, 2020 for the Caledonia Ash Landfill provided a description, data, and pertinent information supporting an alternate source for the wells and parameters with SSIs identified during the November 8-9, 2021 and May 4-5, 2022 sampling events.

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 Revision 2, Caledonia Ash Landfill, Caledonia, Wisconsin, September 29, 2017.

Natural Resource Technology, an OBG Company (NRT/OBG), 2017, *Statistical Analysis Plan, Caledonia Ash Landfill, Caledonia, Wisconsin, October 17, 2017.*

TABLES

TABLE 1 GROUNDWATER ELEVATIONS

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CALEDONIA ASH LANDFILL

CALEDONIA, WI

Well ID	Well Type	Latitude (Decimal degrees)	Longitude (Decimal degrees)	Date	Groundwater Elevation (ft NAVD88)
	Background			11/08/2021	652.57
W46D	(Upgradient/Side- gradient)	42.83840	-87.84685	05/04/2022	655.71
				11/07/2022	651.73
				11/09/2021	653.61
W48	Background (Upgradient)	42.83564	-87.84441	05/05/2022	657.06
				11/07/2022	655.11
				11/09/2021	652.14
W08D	Compliance (Downgradient)	42.83621	-87.83965	05/04/2022	655.10
				11/07/2022	650.23
	Compliance (Downgradient)	42.83892	-87.83924	11/08/2021	651.72
W09D				05/04/2022	655.02
				11/07/2022	652.92
	Compliance (Downgradient)		-87.84015	11/09/2021	651.08
W10D		42.83985		05/05/2022	654.08
				11/07/2022	651.57
				11/09/2021	651.32
W49	Compliance (Downgradient)	42.83987	-87.84187	05/05/2022	654.45
				11/07/2022	652.68
				11/09/2021	651.69
W50	Compliance (Downgradient)	42.83751	-87.83865	05/05/2022	654.84
				11/07/2022	653.06

Notes:

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988

Date Range: 11/01/2021 to 12/01/2022

Lab Methods:

Well Id	Date Sampled	Lab Id	B, tot, mg/L	Ca, tot, mg/L	CI, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
W08D	11/9/2021	AE57087	0.450	49.800	9.800	1.300	7.5	219.000
	5/4/2022	AE60495	0.455	52.000	11.900	1.600	7.4	240.000
	11/7/2022	AE63530	0.460	48.600	9.500	1.200	7.7	210.000
W09D	11/8/2021	AE57086	0.391	18.400	3.800	1.400	8.1	33.200
	5/4/2022	AE60494	0.402	20.700	6.500	1.600	7.8	33.900
	11/7/2022	AE63529	0.422	17.900	3.600	1.300	7.9	32.900
W10D	11/9/2021	AE57090	0.429	20.900	4.000	1.300	8.0	40.600
	5/5/2022	AE60497	0.412	22.900	7.100	1.600	7.9	43.900
	11/7/2022	AE63528	0.443	20.200	3.900	1.300	7.7	42.200
W46D	11/8/2021	AE57085	0.385	26.100	5.600	1.200	7.3	17.700
	5/4/2022	AE60493	0.364	26.900	9.500	1.300	7.0	36.700
	11/7/2022	AE63526	0.368	24.600	6.800	1.100	7.1	34.400
W48	11/9/2021	AE57089	0.377	27.100	3.800	0.970	7.9	<0.440
	5/5/2022	AE60499	0.370	28.400	<2.200	<0.480	7.8	<2.200
	11/7/2022	AE63525	0.386	26.000	3.800	0.960	7.7	0.470
W49	11/9/2021	AE57092	0.449	16.800	4.500	1.400	7.6	37.800
	5/5/2022	AE60500	0.444	17.900	7.300	1.900	7.8	36.700
	11/7/2022	AE63532	0.458	15.600	4.300	1.500	8.1	50.000
W50	11/9/2021	AE57091	0.510	28.400	6.000	1.200	7.7	81.400
	5/5/2022	AE60498	0.499	29.900	8.300	1.400	7.6	81.000
	11/7/2022	AE63531	0.541	28.900	5.800	1.200	7.6	67.000

Table 2. Analytical Results - Appendix III Parameters

Date Range: 11/01/2021 to 12/01/2022

Lab Methods:

Well Id	Date Sampled	Lab Id	TDS, mg/L			
W08D	11/9/2021	AE57087	472.000			
	5/4/2022	AE60495	480.000			
	11/7/2022	AE63530	482.000			
W09D	11/8/2021	AE57086	186.000			
	5/4/2022	AE60494	214.000			
	11/7/2022	AE63529	212.000			
W10D	11/9/2021	AE57090	212.000			
	5/5/2022	AE60497	180.000			
	11/7/2022	AE63528	218.000			
W46D	11/8/2021	AE57085	206.000			
	5/4/2022	AE60493	254.000			
	11/7/2022	AE63526	216.000			
W48	11/9/2021	AE57089	256.000			
	5/5/2022	AE60499	198.000			
	11/7/2022	AE63525	280.000			
W49	11/9/2021	AE57092	204.000			
	5/5/2022	AE60500	204.000			
	11/7/2022	AE63532	220.000			
W50	11/9/2021	AE57091	272.000			
	5/5/2022	AE60498	298.000			
	11/7/2022	AE63531	292.000			

Notes:

Exceedance of Background

TABLE 3 STATISTICAL BACKGROUND VALUES

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CALEDONIA ASH LANDFILL

CALEDONIA, WI

Parameter	Statistical Background Value (LPL/UPL)					
40 C.F.R. Part 257 Appendix III						
Boron (mg/L)	0.401					
Calcium (mg/L)	34.4					
Chloride (mg/L)	13.8					
Fluoride (mg/L)	4.00					
pH (field) (SU)	7.0/8.5					
Sulfate (mg/L)	30.2					
Total Dissolved Solids (mg/L)	260					

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

SU = Standard Units

UPL = Upper Prediction Limit



FIGURES





FIGURE 1

MONITORING WELL LOCATION MAP

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL



PROJECT: 71202 | DATED: 1/26/2023 | DESIGNER: galarnmc

CCR RULE BACKGROUND MONITORING WELL LOCATION CCR RULE DOWNGRADIENT MONITORING WELL LOCATION CCR RULE UPGRADIENT MONITORING WELL LOCATION

UNIT BOUNDARY

250 500 ┛ Feet





RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC

FIGURE 2

CALEDONIA, WISCONSIN

NOVEMBER 8-9, 2021

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CALEDONIA ASH LANDFILL CALEDONIA POWER PLANT

POTENTIOMETRIC SURFACE MAP

150 300 ___ Feet



CCR RULE BACKGROUND MONITORING WELL LOCATION

CCR RULE DOWNGRADIENT MONITORING WELL LOCATION

CCR RULE UPGRADIENT MONITORING WELL LOCATION



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RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC

FIGURE 3

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CALEDONIA ASH LANDFILL CALEDONIA POWER PLANT CALEDONIA, WISCONSIN

POTENTIOMETRIC SURFACE MAP

MAY 4-5, 2022

150 300





GROUNDWATER ELEVATION CONTOUR (1-FT
CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
GROUNDWATER FLOW DIRECTION



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UNIT BOUNDARY

CCR RULE UPGRADIENT MONITORING WELL LOCATION .

CCR RULE BACKGROUND MONITORING WELL LOCATION

CCR RULE DOWNGRADIENT MONITORING WELL LOCATION




RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC

FIGURE 4

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CALEDONIA ASH LANDFILL CALEDONIA POWER PLANT CALEDONIA, WISCONSIN

POTENTIOMETRIC SURFACE MAP

NOVEMBER 7, 2022





UNIT BOUNDARY

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GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD88) - - - INFERRED GROUNDWATER ELEVATION CONTOUR

CCR RULE BACKGROUND MONITORING WELL LOCATION

CCR RULE DOWNGRADIENT MONITORING WELL LOCATION

CCR RULE UPGRADIENT MONITORING WELL LOCATION

GROUNDWATER FLOW DIRECTION

APPENDICES

APPENDIX A LABORATORY REPORTS To: Bob Meidl PSB Annex A231

PSB Annex A231

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



Report Date: Wednesday, December 15, 2021

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

Sample Description:Sample ID:Sample Received:	C aledonia CCR Well AE57085 11/10/2021	Sample 110 Samp Samp	ample 110821001 Sample Collection Date/Time: Sample Collector:				:: 11/08/2021 09:32 L.ALBRIGHT				
<u>Parameter</u>	<u>Result</u>	LOD	<u>Units</u>	<u>L00</u>	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>		
Field Water Level	48.69	0.05	feet		1.0		H2OD	11/8/21	L ALBRIGHT		
Field Temperature	15	0.1	Degrees C		1.0		TEMP	11/8/21	L ALBRIGHT		
Field Conductivity	393	0	umhos		1.0		FCOND25	11/8/21	L ALBRIGHT		
Field pH	7.3	0.1	Units	0.1	1.0		FIELDPH	11/8/21	L ALBRIGHT		
Total Dissolved Solids	206	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	11/17/21	020		
Total Fluoride	1.2	0.095	mg/L	0.32	1.0		EPA 300.0	12/6/21	020		
Total Chloride	5.6	0.43	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Sulfate	17.7	0.44	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Boron	385	17.3	ug/L	40.0	1.0		EPA 200.7	11/15/21	020		
Total Calcium	26100	114	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Chloride	5.9	0.43	mg/L	2.0	1.0		EPA 300.0	12/7/21	020		
Dissolved Sulfate	18.1	0.44	mg/L	2.0	1.0		EPA 300.0	12/7/21	020		
Total Filtered Alkalinity as CaC	O3 170	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/18/21	020		
Bicarbonate Ion	169.7	5.0	mg/L	10.0	1.0		HCO3	12/13/21	PJA		
Carbonate Ion	0.3	0.1	mg/L		1.0		CO3	12/23/21	PJA		
Dissolved Calcium	25600	114	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Magnesium	14700	182	ug/L	1000	1.0		EPA 200.7	11/15/21	020		
Dissolved Sodium	35000	350	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Potassium	1880	325	ug/L	1000	1.0		EPA 200.7	11/15/21	020		

Sample Description:	Caledonia CCR Well Sample 110821002										
Sample ID:	AE57086	Samp	ole Collection I	Date/Time	e: 11/08	8/2021	13:35				
Sample Received:	11/10/2021	Samp	Sample Collector:			BRIGHT					
						Result	Analysis	Analysis			
Parameter	<u>Result</u>	LOD	<u>Units</u>	LOQ	DIL	<u>Flag</u>	Method	<u>Date</u>	<u>Analyst</u>		
Field Water Level	55.63	0.05	feet		1.0		H2OD	11/8/21	L ALBRIGHT		
Field Temperature	18	0.1	Degrees C		1.0		TEMP	11/8/21	L ALBRIGHT		
Field Conductivity	291	0	umhos		1.0		FCOND25	11/8/21	L ALBRIGHT		
Field pH	8.1	0.1	Units	0.1	1.0		FIELDPH	11/8/21	L ALBRIGHT		
Total Dissolved Solids	186	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	11/17/21	020		
Total Fluoride	1.4	0.095	mg/L	0.32	1.0		EPA 300.0	12/6/21	020		
Total Chloride	3.8	0.43	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Sulfate	33.2	0.44	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Boron	391	17.3	ug/L	40.0	1.0		EPA 200.7	11/15/21	020		

Report Date: Wednesday, December 15, 2021

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

Sample Description: Sample ID: Sample Received:	Caledonia CCR Well Sample 110821002AE57086Sample Collection Date/Time:11/08/202113:3511/10/2021Sample Collector:L.ALBRIGHT									
<u>Parameter</u>		<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>
Total Calcium		18400	114	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Chloride		3.8	0.43	mg/L	2.0	1.0		EPA 300.0	12/7/21	020
Dissolved Sulfate		33.8	0.44	mg/L	2.0	1.0		EPA 300.0	12/7/21	020
Total Filtered Alkalinity as Ca	CO3	142	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/18/21	020
Bicarbonate Ion		140.2	5.0	mg/L	10.0	1.0		HCO3	12/13/21	PJA
Carbonate Ion		1.8	0.1	mg/L		1.0		CO3	12/13/21	PJA
Dissolved Calcium		18800	114	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Magnesium		10800	182	ug/L	1000	1.0		EPA 200.7	11/15/21	020
Dissolved Sodium		40700	350	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Potassium		1040	325	ug/L	1000	1.0		EPA 200.7	11/15/21	020

Sample Comments:

Sample Description: (Caledonia CCR Well Sample 110921003										
Sample Received: 1	1/10/2021	Sam	ole Collector:		L.AL	L.ALBRIGHT					
Parameter	<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>		
Field Water Level	46.14	0.05	feet		1.0		H2OD	11/9/21	L ALBRIGHT		
Field Temperature	14	0.1	Degrees C		1.0		TEMP	11/9/21	L ALBRIGHT		
Field Conductivity	748	0	umhos		1.0		FCOND25	11/9/21	L ALBRIGHT		
Field pH	7.5	0.1	Units	0.1	1.0		FIELDPH	11/9/21	L ALBRIGHT		
Total Dissolved Solids	472	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	11/16/21	020		
Total Fluoride	1.3	0.095	mg/L	0.32	1.0		EPA 300.0	12/6/21	020		
Total Chloride	9.8	0.43	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Sulfate	219	4.4	mg/L	20.0	1.0		EPA 300.0	12/6/21	020		
Total Boron	450	17.3	ug/L	40.0	1.0		EPA 200.7	11/15/21	020		
Total Calcium	49800	114	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Chloride	9.8	0.43	mg/L	2.0	1.0		EPA 300.0	12/7/21	020		
Dissolved Sulfate	218	4.4	mg/L	20.0	1.0		EPA 300.0	12/7/21	020		
Total Filtered Alkalinity as CaC	03 155	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/18/21	020		
Bicarbonate Ion	154.5	5.0	mg/L	10.0	1.0		HCO3	12/13/21	PJA		
Carbonate Ion	0.5	0.1	mg/L		1.0		CO3	12/13/21	PJA		
Dissolved Calcium	51700	2270	ug/L	10000	20.0		EPA 200.7	11/15/21	020		
Dissolved Magnesium	23100	182	ug/L	1000	1.0		EPA 200.7	11/15/21	020		
Dissolved Sodium	77800	7000	ug/L	10000	20.0		EPA 200.7	11/15/21	020		
Dissolved Potassium	3080	325	ug/L	1000	1.0		EPA 200.7	11/15/21	020		

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

Sample Description: Sample ID: Sample Received:	Caledonia CCR Well Sample 110921004AE57088Sample Collection Date/Time:11/09/202111:4311/10/2021Sample Collector:L.ALBRIGHT								
Parameter	<u>Result</u>	LOD	<u>Units</u>	LOQ	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>
Total Dissolved Solids	462	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	11/16/21	020
Total Fluoride	1.2	0.095	mg/L	0.32	1.0		EPA 300.0	12/6/21	020
Total Chloride	9.8	0.43	mg/L	2.0	1.0		EPA 300.0	12/6/21	020
Total Sulfate	205	4.4	mg/L	20.0	1.0		EPA 300.0	12/6/21	020
Total Boron	458	17.3	ug/L	40.0	1.0		EPA 200.7	11/15/21	020
Total Calcium	51100	2270	ug/L	10000	20.0		EPA 200.7	11/15/21	020
Dissolved Chloride	9.8	0.43	mg/L	2.0	1.0		EPA 300.0	12/7/21	020
Dissolved Sulfate	212	4.4	mg/L	20.0	10.0		EPA 300.0	12/7/21	020
Total Filtered Alkalinity as Ca	CO3 161	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/19/21	020
Dissolved Calcium	50400	114	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Magnesium	22500	182	ug/L	1000	1.0		EPA 200.7	11/15/21	020
Dissolved Sodium	75600	350	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Potassium	3090	325	ug/L	1000	1.0		EPA 200.7	11/15/21	020

Sample Description:	Caledonia CCR Well Sample 110921005											
Sample ID:	AE57089)	Sample	Collection D	ate/Time:	me: 11/09/2021 12:30						
Sample Received:	11/10/202	21	Sample	Collector:		L.AL	BRIGHT					
							Result	Analysis	Analysis			
Parameter		<u>Result</u>	LOD	<u>Units</u>	LOQ	DIL	<u>Flag</u>	Method	<u>Date</u>	<u>Analyst</u>		
Field Water Level		62.27	0.05	feet		1.0		H2OD	11/9/21	L ALBRIGHT		
Field Temperature		13	0.1	Degrees C		1.0		TEMP	11/9/21	L ALBRIGHT		
Field Conductivity		427	0	umhos		1.0		FCOND25	11/9/21	L ALBRIGHT		
Field pH		7.9	0.1	Units	0.1	1.0		FIELDPH	11/9/21	L ALBRIGHT		
Total Dissolved Solids		256	20	mg/L		1.0		Std Mtd 2540 C	11/16/21	020		
Total Fluoride		0.97	0.095	mg/L	0.32	1.0		EPA 300.0	12/6/21	020		
Total Chloride		3.8	0.43	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Sulfate		Less Than	0.44	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Boron		377	17.3	ug/L	40.0	1.0		EPA 200.7	11/15/21	020		
Total Calcium		27100	114	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Chloride		3.9	0.43	mg/L	2.0	1.0		EPA 300.0	12/7/21	020		
Dissolved Sulfate		Less Than	0.44	mg/L	2.0	1.0		EPA 300.0	12/7/21	020		
Total Filtered Alkalinity as CaC	203	223	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/19/21	020		
Bicarbonate Ion		221.4	5.0	mg/L	10.0	1.0		HCO3	12/13/21	PJA		
Carbonate Ion		1.6	0.1	mg/L		1.0		CO3	12/13/21	PJA		
Dissolved Calcium		26200	114	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Magnesium		17000	182	ug/L	1000	1.0		EPA 200.7	11/15/21	020		
Dissolved Sodium		45300	350	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Potassium		1540	325	ug/L	1000	1.0		EPA 200.7	11/15/21	020		

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

Sample Comments:

Sample Description:	Caledonia CCR Well Sample 110921006											
Sample ID:	AE57090)	Sample	Collection D	Date/Time:	ime: 11/09/2021 13:11						
Sample Received:	11/10/202	21	Sample Collector:			L.AL	BRIGHT					
							Result	Analysis	Analysis			
Parameter		<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Flag</u>	Method	<u>Date</u>	<u>Analyst</u>		
Field Water Level		52.02	0.05	feet		1.0		H2OD	11/9/21	L ALBRIGHT		
Field Temperature		12	0.1	Degrees C		1.0		TEMP	11/9/21	L ALBRIGHT		
Field Conductivity		353	0	umhos		1.0		FCOND25	11/9/21	L ALBRIGHT		
Field pH		8.0	0.1	Units	0.1	1.0		FIELDPH	11/9/21	L ALBRIGHT		
Total Dissolved Solids		212	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	11/16/21	020		
Total Fluoride		1.3	0.095	mg/L	0.32	1.0		EPA 300.0	12/6/21	020		
Total Chloride		4.0	0.43	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Sulfate		40.6	0.44	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Boron		429	17.3	ug/L	40.0	1.0		EPA 200.7	11/15/21	020		
Total Calcium		20900	114	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Chloride		4.2	0.43	mg/L	2.0	1.0		EPA 300.0	12/7/21	020		
Dissolved Sulfate		43.1	0.44	mg/L	2.0	1.0		EPA 300.0	12/7/21	020		
Total Filtered Alkalinity as CaC	203	133	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/19/21	020		
Bicarbonate Ion		131.8	5.0	mg/L	10.0	1.0		HCO3	12/13/21	PJA		
Carbonate Ion		1.1	0.1	mg/L		1.0		CO3	12/13/21	PJA		
Dissolved Calcium		21900	114	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Magnesium		8480	182	ug/L	1000	1.0		EPA 200.7	11/15/21	020		
Dissolved Sodium		45900	350	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Potassium		1500	325	ug/L	1000	1.0		EPA 200.7	11/15/21	020		

Sample Description:	Caledonia CCR Well Sample 110921007								
Sample ID:	AE57091	Samp	ole Collection l	Date/Time	e: 11/09	9/2021	13:48		
Sample Received:	11/10/2021	Sample Collector:			L.AL	BRIGHT			
<u>Parameter</u>	<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>
Field Water Level	42.99	0.05	feet		1.0		H2OD	11/9/21	L ALBRIGHT
Field Temperature	14	0.1	Degrees C		1.0		TEMP	11/9/21	L ALBRIGHT
Field Conductivity	260	0	umhos		1.0		FCOND25	11/9/21	L ALBRIGHT
Field pH	7.7	0.1	Units	0.1	1.0		FIELDPH	11/9/21	L ALBRIGHT
Total Dissolved Solids	272	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	11/16/21	020
Total Fluoride	1.2	0.095	mg/L	0.32	1.0		EPA 300.0	12/6/21	020
Total Chloride	6.0	0.43	mg/L	2.0	1.0		EPA 300.0	12/6/21	020
Total Sulfate	81.4	2.2	mg/L	10.0	5.0		EPA 300.0	12/6/21	020
Total Boron	510	17.3	ug/L	40.0	1.0		EPA 200.7	11/15/21	020
Total Calcium	28400	114	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Chloride	6.0	0.43	mg/L	2.0	1.0		EPA 300.0	12/7/21	020
Dissolved Sulfate	82.0	2.2	mg/L	10.0	5.0		EPA 300.0	12/7/21	020

Report Date: Wednesday, December 15, 2021

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

Sample Description:	Caledonia CCR Well Sample 110921007									
Sample ID:	AE57091	AE57091 Sample Collection Date/Time:					/2021 1	3:48		
Sample Received:	11/10/202	21	Sample Collector:			L.AL	BRIGHT			
Parameter		<u>Result</u>	LOD	<u>Units</u>	LOQ	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>
Total Filtered Alkalinity as Ca	CO3	145	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/19/21	020
Bicarbonate Ion		144.3	5.0	mg/L	10.0	1.0		HCO3	12/13/21	PJA
Carbonate Ion		0.6	0.1	mg/L		1.0		CO3	12/13/21	PJA
Dissolved Calcium		28600	114	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Magnesium		10500	182	ug/L	1000	1.0		EPA 200.7	11/15/21	020
Dissolved Sodium		56400	350	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Potassium		1590	325	ug/L	1000	1.0		EPA 200.7	11/15/21	020

Sample Comments:

Sample Description:	Caledonia CCR Well Sample 110921008								
Sample ID:	AE57092	Samp	ole Collection I	Date/Time	: 11/09	9/2021	14:30		
Sample Received:	11/10/2021	Samp	ole Collector:	or: L.ALBF		.BRIGHT			
Doromotor	Result	LOD	Units	100	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
		<u>202</u>	<u>e 11105</u>	<u>20 Y</u>		<u> </u>		<u>2 uvv</u>	<u></u>
Field Water Level	66.17	0.05	feet		1.0		H2OD	11/9/21	L ALBRIGHT
Field Temperature	13	0.1	Degrees C		1.0		TEMP	11/9/21	L ALBRIGHT
Field Conductivity	337	0	umhos		1.0		FCOND25	11/9/21	L ALBRIGHT
Field pH	7.6	0.1	Units	0.1	1.0		FIELDPH	11/9/21	L ALBRIGHT
Total Dissolved Solids	204	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	11/16/21	020
Total Fluoride	1.4	0.095	mg/L	0.32	1.0		EPA 300.0	12/9/21	020
Total Chloride	4.5	0.43	mg/L	2.0	1.0		EPA 300.0	12/6/21	020
Total Sulfate	37.8	0.44	mg/L	2.0	1.0		EPA 300.0	12/6/21	020
Total Boron	449	17.3	ug/L	40.0	1.0		EPA 200.7	11/15/21	020
Total Calcium	16800	114	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Chloride	4.5	0.43	mg/L	2.0	1.0		EPA 300.0	12/7/21	020
Dissolved Sulfate	37.4	0.44	mg/L	2.0	1.0		EPA 300.0	12/7/21	020
Total Filtered Alkalinity as CaC	203 130	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/19/21	020
Bicarbonate Ion	129.5	5.0	mg/L	10.0	1.0		HCO3	12/13/21	PJA
Carbonate Ion	0.5	0.1	mg/L		1.0		CO3	12/13/21	PJA
Dissolved Calcium	16600	114	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Magnesium	7080	182	ug/L	1000	1.0		EPA 200.7	11/15/21	020
Dissolved Sodium	49600	350	ug/L	500	1.0		EPA 200.7	11/15/21	020
Dissolved Potassium	1000	325	ug/L	1000	1.0		EPA 200.7	11/15/21	020

Sample Description:	Caledonia CCR Well	Sample 110	921009						
Sample ID:	AE57093	Samp	le Collection	Date/Time	: 11/0	9/2021	14:45		
Sample Received:	11/10/2021	Samp	ele Collector:		L.ALBRIGHT				
						Result	Analysis	Analysis	
Parameter	<u>Result</u>	LOD	<u>Units</u>	LOQ	<u>DIL</u>	<u>Flag</u>	Method	Date	<u>Analyst</u>

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

Sample Description:	Caledonia CCR Well Sample 110921009											
Sample ID:	AE57093	3	Sample	e Collection I	Date/Time	me: 11/09/2021 14:45						
Sample Received:	11/10/20	21	Sample	e Collector:		L.AL	BRIGHT					
							Result	Analysis	Analysis			
<u>Parameter</u>		<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	DIL	<u>Flag</u>	<u>Method</u>	<u>Date</u>	<u>Analyst</u>		
Field Temperature		17	0.1	Degrees C		1.0		TEMP	11/9/21	L ALBRIGHT		
Field Conductivity		6.52	0	umhos		1.0		FCOND25	11/9/21	L ALBRIGHT		
Field pH		7.4	0.1	Units	0.1	1.0		FIELDPH	11/9/21	L ALBRIGHT		
Total Dissolved Solids		Less Than	8.7	mg/L	20.0	1.0		Std Mtd 2540 C	11/16/21	020		
Total Fluoride		Less Than	0.095	mg/L	0.32	1.0		EPA 300.0	12/9/21	020		
Total Chloride		Less Than	0.43	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Sulfate		Less Than	0.44	mg/L	2.0	1.0		EPA 300.0	12/6/21	020		
Total Boron		Less Than	17.3	ug/L	40.0	1.0		EPA 200.7	11/15/21	020		
Total Calcium		Less Than	114	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Chloride		Less Than	0.43	mg/L	2.0	1.0		EPA 300.0	12/7/21	020		
Dissolved Sulfate		Less Than	0.44	mg/L	2.0	1.0		EPA 300.0	12/7/21	020		
Total Filtered Alkalinity as Ca	CO3	Less Than	5.0	mg/l	10.0	1.0		Std Mtd 2320 B	11/17/21	020		
Bicarbonate Ion		Less Than	5.0	mg/L	10.0	1.0		HCO3	12/13/21	PJA		
Carbonate Ion		Less Than	0.1	mg/L		1.0		CO3	12/13/21	PJA		
Dissolved Calcium		Less Than	114	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Magnesium		Less Than	182	ug/L	1000	1.0		EPA 200.7	11/15/21	020		
Dissolved Sodium		Less Than	350	ug/L	500	1.0		EPA 200.7	11/15/21	020		
Dissolved Potassium		Less Than	325	ug/L	1000	1.0		EPA 200.7	11/15/21	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.

COC# 02327-002

We Energies - Laboratory Services Division				ANALY	SIS REQUES	TED		
Analysis Request Form/Chain of Custody Record								Preservation Codes
Requestor:								Vendor/I ot# of Preservative User
Company Phone:			(-	()	р		23	A = HNO3
Company Mail Code:			9))。)	<u></u>		40	B = HCL
Project Internal Order #:) ')	0 0		7	C = H2SO4
Date Results Needed:			41	41) • •	٢	v ⁻	D = NaOH
Notification Options: E-Mail Fax Mail Phone (Circle Preference)			යා	Ma)5	40	29	E = None
Sample Collector: Lych A NDr AND A			-Cl	<u>+</u>	92)	5	F = Other
Sample conector signature. Outers (JUCUAN V								가지 않는 것 같아요. 아이지 않는 것 같아요.
Sample Description (include sample type ie grab or composite)	Date	Time		LYESE				For Laboratory Use Unity
Cal - CCR	Collected	Collected					A'E	
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050472.002		1322	52.33	10.30	427.23	1.84	~	
050422003		1538	43.18	10.24	930.56	7.38	~	
050412004	->	1543	₹ 2	20	₹ 2	22	×	
050522005	121515	101	49.0Z	- Coret	408.69	26° L	×	
020222006	-	1057	39.84	96.6	534.97	95.L	. ×	
C0222007		1235	58.82	10,40	487.784	PC. L	×	
050522008	_	1344	63.04	95.01	390.58	18.1	×	
050522009	+	CIZHI	4 2	N. 75	48.35	647	×	
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Relinquished by: / Date/Time:	Received by:			Date	Time:			Sample pH check: ok/adjusted
Relinquished by: Date/Time: It	Received by:			Date	Time:			
Relinquished by: Date/Time: I	Received by:			Date	Time:		la Proposal I	
Logged in by/Date:	Due Date::					Project Specialis	st	
Activity Code:	storage:					Reviewed and A	Approved t	y:Date:
Results Reported by: Date: Time:	Reported To:							
Test Oodes:								

Yellow Copy - Customer Copy

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White Copy (Original) - To Laboratory Services PSB Annex Room A070 Ye

To: Bob Meidl PSB Annex A231

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

Report Date: Wednesday, May 25, 2022

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

Sample Description: Sample ID: Sample Received:	050422001 Caledonia AE60493 05/06/2022	2001 Caledonia CCR Well Sample.93Sample Collection Date/Time:05/04/202209::2022Sample Collector:LYDIA ALBRIGH							
Parameter	<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>
Field Water Level	45.55	0.05	feet		1		H2OD	5/4/22	L. ALBRIGHT
Field Temperature	10.70	0.1	Degrees	5	1		TEMP	5/4/22	L. ALBRIGHT
Field Conductivity	491.76	0	umhos		1		FCOND25	5/4/22	L. ALBRIGHT
Field pH	7.02	0.1	Units	0.1	1		FIELDPH	5/4/22	L. ALBRIGHT
Total Dissolved Solids	254	8.7	mg/L	20.0	1		Std Mtd 2540 C	5/7/22	020
Total Chloride	9.5	2.2	mg/L	10.0	5	J	EPA 300.0	5/7/22	020
Total Fluoride	1.3	0.48	mg/L	1.6	5	J	EPA 300.0	5/7/22	020
Total Sulfate	36.7	2.2	mg/L	10.0	5		EPA 300.0	5/7/22	020
Total Boron	364	3.0	ug/L	10.0	1		EPA 200.7	5/12/22	020
Total Calcium	26900	76.2	ug/L	254	1		EPA 200.7	5/12/22	020

Sample Comments:

Sample Description:	050422002 Caledoni	050422002 Caledonia CCR Well Sample										
Sample ID:	AE60494	Samj	ole Collecti	on Date/T	ime: 05/0	04/2022	13:22					
Sample Received:	05/06/2022	Sam	ple Collecto	or:	LYI	DIA ALBR	IGHT					
<u>Parameter</u>	<u>Result</u>	LOD	<u>Units</u>	<u>L00</u>	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>			
Field Water Level	52.33	0.05	feet		1		H2OD	5/4/22	L. ALBRIGHT			
Field Temperature	10.30	0.1	Degrees	5	1		TEMP	5/4/22	L. ALBRIGHT			
Field Conductivity	422.23	0	umhos		1		FCOND25	5/4/22	L. ALBRIGHT			
Field pH	7.84	0.1	Units	0.1	1		FIELDPH	5/4/22	L. ALBRIGHT			
Total Dissolved Solids	214	8.7	mg/L	20.0	1		Std Mtd 2540 C	5/7/22	020			
Total Chloride	6.5	2.2	mg/L	10.0	5	J,X	EPA 300.0	5/7/22	020			
Total Fluoride	1.6	0.48	mg/L	1.6	5		EPA 300.0	5/7/22	020			
Total Sulfate	33.9	2.2	mg/L	10.0	5		EPA 300.0	5/7/22	020			
Total Boron	402	3.0	ug/L	10.0	1		EPA 200.7	5/12/22	020			
Total Calcium	20700	76.2	ug/L	254	1		EPA 200.7	5/12/22	020			

Report Date: Wednesday, May 25, 2022

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

Sample Description:	050422003 Caledonia CCR Well Sample									
Sample ID:	AE60495	Samp	le Collectio	on Date/Ti	me: 05/0	4/2022	15:38			
Sample Received:	05/06/2022	Samp	le Collecto	r:	LYD	IA ALBR	IGHT			
Parameter	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>L00</u>	<u>DIL</u>	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>	
Field Water Level	43.18	0.05	feet		1		H2OD	5/4/22	L. ALBRIGHT	
Field Temperature	10.24	0.1	Degrees		1		TEMP	5/4/22	L. ALBRIGHT	
Field Conductivity	930.56	0	umhos		1		FCOND25	5/4/22	L. ALBRIGHT	
Field pH	7.38	0.1	Units	0.1	1		FIELDPH	5/4/22	L. ALBRIGHT	
Total Dissolved Solids	480	8.7	mg/L	20.0	1		Std Mtd 2540 C	5/7/22	020	
Total Chloride	11.9	2.2	mg/L	10.0	5		EPA 300.0	5/7/22	020	
Total Fluoride	1.6	0.48	mg/L	1.6	1		EPA 300.0	5/7/22	020	
Total Sulfate	240	8.9	mg/L	40.0	20		EPA 300.0	5/7/22	020	
Total Boron	455	3.0	ug/L	10.0	1		EPA 200.7	5/12/22	020	
Total Calcium	52000	76.2	ug/L	254	1		EPA 200.7	5/12/22	020	

Sample Comments:

Sample Description: Sample ID: Sample Received:	050422004 Caledonia AE60496 05/06/2022	CCR Well Samp Samp	Sample ole Collecti ole Collecto	on Date/Ti or:	ime: 05/0 LYI	4/2022 DIA ALBR	15:43 IGHT		
Parameter	<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>
Total Dissolved Solids	488	8.7	mg/L	20.0	1		Std Mtd 2540 C	5/7/22	020
Total Chloride	11.9	2.2	mg/L	10.0	5		EPA 300.0	5/7/22	020
Total Fluoride	1.5	0.48	mg/L	1.6	5	J	EPA 300.0	5/7/22	020
Total Sulfate	230	8.9	mg/L	40.0	20		EPA 300.0	5/7/22	020
Total Boron	436	3.0	ug/L	10.0	1		EPA 200.7	5/12/22	020
Total Calcium	52100	76.2	ug/L	254	1		EPA 200.7	5/12/22	020

Sample Description:	050422005 Caledonia CCR Well Sample										
Sample ID:	AE60497	Sam	ole Collecti	on Date/T	ime: 05/0	05/2022	10:17				
Sample Received:	05/06/2022	Sam	ole Collecto	or:	LYI	DIA ALBR	IGHT				
<u>Parameter</u>	<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>		
Field Water Level	49.02	0.05	feet		1		H2OD	5/5/22	L. ALBRIGHT		
Field Temperature	9.86	0.1	Degrees	5	1		TEMP	5/5/22	L. ALBRIGHT		
Field Conductivity	408.09	0	umhos		1		FCOND25	5/5/22	L. ALBRIGHT		
Field pH	7.92	0.1	Units	0.1	1		FIELDPH	5/5/22	L. ALBRIGHT		
Total Dissolved Solids	180	8.7	mg/L	20.0	1		Std Mtd 2540 C	5/7/22	020		
Total Chloride	7.1	2.2	mg/L	10.0	5	J	EPA 300.0	5/7/22	020		
Total Fluoride	1.6	0.48	mg/L	1.6	5		EPA 300.0	5/7/22	020		
Total Sulfate	43.9	2.2	mg/L	10.0	5		EPA 300.0	5/7/22	020		
Total Boron	412	3.0	ug/L	10.0	1		EPA 200.7	5/12/22	020		
Total Calcium	22900	76.2	ug/L	254	1		EPA 200.7	5/12/22	020		

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

Sample Comments:

Sample Description:	050422006 Caledonia CCR Well Sample										
Sample ID:	AE60498	Samp	ole Collection	on Date/Ti	ime: 05/0	5/2022	10:57				
Sample Received:	05/06/2022	Samp	ole Collecto	or:	LYE	DIA ALBR	IGHT				
Parameter	<u>Result</u>	LOD	<u>Units</u>	LOQ	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>		
Field Water Level	39.84	0.05	feet		1		H2OD	5/5/22	L. ALBRIGHT		
Field Temperature	9.96	0.1	Degrees		1		TEMP	5/5/22	L. ALBRIGHT		
Field Conductivity	534.97	0	umhos		1		FCOND25	5/5/22	L. ALBRIGHT		
Field pH	7.56	0.1	Units	0.1	1		FIELDPH	5/5/22	L. ALBRIGHT		
Total Dissolved Solids	298	8.7	mg/L	20.0	1		Std Mtd 2540 C	5/7/22	020		
Total Chloride	8.3	2.2	mg/L	10.0	5	J	EPA 300.0	5/7/22	020		
Total Fluoride	1.4	0.48	mg/L	1.6	5	J	EPA 300.0	5/7/22	020		
Total Sulfate	81.0	2.2	mg/L	10.0	5		EPA 300.0	5/7/22	020		
Total Boron	499	3.0	ug/L	10.0	1		EPA 200.7	5/12/22	020		
Total Calcium	29900	76.2	ug/L	254	1		EPA 200.7	5/12/22	020		

Sample Comments:

Sample Description:	050422007 Caledonia CCR Well Sample										
Sample ID:	AE60499	Samp	ole Collection	on Date/T	ime: 05/0	5/2022	12:35				
Sample Received:	05/06/2022	Samp	ple Collecto	or:	LYE	DIA ALBR	IGHT				
_	Dogult	LOD	I	100	DII	Result	Analysis Mathad	Analysis Doto	Analyst		
Parameter	<u>Kesun</u>	LOD	<u>Units</u>	<u>LUQ</u>	DIL	riag	Methou	Date	Anaryst		
Field Water Level	58.82	0.05	feet		1		H2OD	5/5/22	L. ALBRIGHT		
Field Temperature	10.40	0.1	Degrees		1		TEMP	5/5/22	L. ALBRIGHT		
Field Conductivity	487.78	0	umhos		1		FCOND25	5/5/22	L. ALBRIGHT		
Field pH	7.79	0.1	Units	0.1	1		FIELDPH	5/5/22	L. ALBRIGHT		
Total Dissolved Solids	198	8.7	mg/L	20.0	1		Std Mtd 2540 C	5/7/22	020		
Total Chloride	Less Than	2.2	mg/L	10.0	5		EPA 300.0	5/7/22	020		
Total Fluoride	Less Than	0.48	mg/L	1.6	5		EPA 300.0	5/7/22	020		
Total Sulfate	Less Than	2.2	mg/L	10.0	5		EPA 300.0	5/7/22	020		
Total Boron	370	3.0	ug/L	10.0	1		EPA 200.7	5/12/22	020		
Total Calcium	28400	76.2	ug/L	254	1		EPA 200.7	5/12/22	020		

Sample Description:	050422008 Caledonia C	CR Well Sa	ample						
Sample ID:	AE60500	Sample	Collectio	n Date/Tim	e: 05/05	/2022 1	3:44		
Sample Received:	05/06/2022	Sample	Collector	:	LYDI	A ALBRI	GHT		
						Result	Analysis	Analysis	
Parameter	<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Flag</u>	<u>Method</u>	<u>Date</u>	<u>Analyst</u>
Field Water Level	63.04	0.05	feet		1		H2OD	5/5/22	L. ALBRIGHT

Report Date: Wednesday, May 25, 2022

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

Sample Description:	050422008 Caledonia CCR Well Sample									
Sample ID:	AE60500	Samp	ole Collection	on Date/Ti	ime: 05/0	5/2022	13:44			
Sample Received:	05/06/2022	Samp	ole Collecto	or:	LYI	DIA ALBR	IGHT			
Parameter	<u>Result</u>	LOD	<u>Units</u>	LOQ	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>	
Field Temperature	10.56	0.1	Degrees		1		TEMP	5/5/22	L. ALBRIGHT	
Field Conductivity	390.58	0	umhos		1		FCOND25	5/5/22	L. ALBRIGHT	
Field pH	7.81	0.1	Units	0.1	1		FIELDPH	5/5/22	L. ALBRIGHT	
Total Dissolved Solids	204	8.7	mg/L	20.0	1		Std Mtd 2540 C	5/7/22	020	
Total Chloride	7.3	2.2	mg/L	10.0	5	J	EPA 300.0	5/7/22	020	
Total Fluoride	1.9	0.48	mg/L	1.6	5		EPA 300.0	5/7/22	020	
Total Sulfate	36.7	2.2	mg/L	10.0	5		EPA 300.0	5/7/22	020	
Total Boron	444	3.0	ug/L	10.0	1		EPA 200.7	5/12/22	020	
Total Calcium	17900	76.2	ug/L	254	1		EPA 200.7	5/12/22	020	

Sample Comments:

Sample Description:	050422009 Caledonia CCR Well Sample										
Sample ID:	AE60501	Samp	ole Collection	on Date/T	ime: 05/0	5/2022	14:20				
Sample Received:	05/06/2022	Samp	ple Collecto	r:	LYE	DIA ALBR	IGHT				
Parameter	<u>Result</u>	LOD	<u>Units</u>	<u>LOQ</u>	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>		
Field Temperature	12.25	0.1	Degrees		1		TEMP	5/5/22	L. ALBRIGHT		
Field Conductivity	48.35	0	umhos		1		FCOND25	5/5/22	L. ALBRIGHT		
Field pH	8.47	0.1	Units	0.1	1		FIELDPH	5/5/22	L. ALBRIGHT		
Total Dissolved Solids	Less Than	8.7	mg/L	20.0	1		Std Mtd 2540 C	5/7/22	020		
Total Chloride	0.69	0.43	mg/L	2.0	1	J	EPA 300.0	5/7/22	020		
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	5/7/22	020		
Total Sulfate	Less Than	0.44	mg/L	2.0	1		EPA 300.0	5/7/22	020		
Total Boron	Less Than	3.0	ug/L	10.0	1		EPA 200.7	5/12/22	020		
Total Calcium	Less Than	76.2	ug/L	254	1		EPA 200.7	5/12/22	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.



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

May 24, 2022

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

RE: Project: Q-6005-001005 CALEDONIA LANDFI Pace Project No.: 40244539

Dear Patrick Ahrens:

Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

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

Enclosures

cc: Kevin Howard, We Energies WE Energies Lab Reports, WE Energies





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

CERTIFICATIONS

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40244539

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



SAMPLE SUMMARY

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 4

40244539

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40244539001	050422001 (AE60493)	Water	05/04/22 09:51	05/07/22 07:45
40244539002	050422002 (AE60494)	Water	05/04/22 13:22	05/07/22 07:45
40244539003	050422003 (AE60495)	Water	05/04/22 15:38	05/07/22 07:45
40244539004	050422004 (AE60496)	Water	05/04/22 15:43	05/07/22 07:45
40244539005	050422005 (AE60497)	Water	05/05/22 10:17	05/07/22 07:45
40244539006	050422006 (AE60498)	Water	05/05/22 10:57	05/07/22 07:45
40244539007	050422007 (AE60499)	Water	05/05/22 12:35	05/07/22 07:45
40244539008	050422008 (AE60500)	Water	05/05/22 13:44	05/07/22 07:45
40244539009	050422009 (AE60501)	Water	05/05/22 14:20	05/07/22 07:45



SAMPLE ANALYTE COUNT

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40244539

40244539001 050422001 (AE60493) EPA 200.8 KXS 2 40244539002 050422002 (AE60494) SM 2540C SRK 1 40244539002 050422002 (AE60494) EPA 200.8 KXS 2 40244539003 050422002 (AE60494) EPA 200.8 KXS 2 40244539003 050422003 (AE60495) EPA 200.8 KXS 2 40244539003 050422003 (AE60495) EPA 200.8 KXS 2 40244539004 050422004 (AE60496) EPA 200.8 KXS 2 40244539005 050422004 (AE60496) EPA 200.8 KXS 2 40244539005 050422005 (AE60497) EPA 200.8 KXS 2 40244539006 050422006 (AE60497) EPA 200.8 KXS 2 SM 2540C SRK 1 EPA 300.0 HMB 3 40244539006 050422006 (AE60498) EPA 200.8 KXS 2 SM 2540C SRK 1 EPA 300.0 HMB 3 40244539007 050422007 (AE60499)	Lab ID	Sample ID	Method	Analysts	Analytes Reported
SM 2540CSRK1EPA 300.0HMB340244539002050422002 (AE60494)EPA 200.8KXS2SM 2540CSRK1PA 300.0HMB340244539003050422003 (AE60495)EPA 200.8KXS240244539004050422004 (AE60496)EPA 300.0HMB340244539005050422004 (AE60496)EPA 200.8KXS240244539006050422005 (AE60497)EPA 200.8KXS240244539006050422005 (AE60497)EPA 200.8KXS240244539006050422006 (AE60498)EPA 200.8KXS240244539007050422006 (AE60498)EPA 200.8KXS240244539007050422007 (AE60499)EPA 300.0HMB340244539007050422007 (AE60499)EPA 200.8KXS240244539007050422008 (AE60500)EPA 200.8KXS240244539008050422008 (AE60500)EPA 200.8KXS240244539009050422009 (AE60501)EPA 200.8KXS2 <t< td=""><td>40244539001</td><td>050422001 (AE60493)</td><td>EPA 200.8</td><td>KXS</td><td>2</td></t<>	40244539001	050422001 (AE60493)	EPA 200.8	KXS	2
40244539002050422002 (AE60494)EPA 300.0HMB340244539003050422003 (AE60495)EPA 200.8KXS240244539003050422003 (AE60495)EPA 200.8KXS240244539004050422004 (AE60496)EPA 200.8KXS240244539005050422005 (AE60496)EPA 200.8KXS240244539005050422005 (AE60497)EPA 200.8KXS240244539005050422005 (AE60497)EPA 200.8KXS240244539006050422006 (AE60497)EPA 200.8KXS240244539007050422007 (AE60499)EPA 200.8KXS240244539007050422007 (AE60499)EPA 200.8KXS240244539007050422007 (AE60499)EPA 200.8KXS240244539008050422007 (AE60499)EPA 200.8KXS240244539009050422008 (AE60500)EPA 200.8KXS240244539009050422009 (AE60501)EPA 200.8KXS240244539009050422009 (AE60501)EPA 200.8KXS240244539009050422009 (AE60501)EPA 200.8KXS240244539009050422009 (AE60501)EPA 200.8KXS240244539009050422009 (AE60501)EPA 200.8KXS240244539009050422009 (AE60501)EPA 200.0HMB340244539009050422009 (AE60501)EPA 200.0FA 200.0KMS240244539009050422009 (AE60501)EPA 200.0KMS <td></td> <td></td> <td>SM 2540C</td> <td>SRK</td> <td>1</td>			SM 2540C	SRK	1
40244539002050422002 (AE60494)EPA 20.8KXS2SM 2540CSRK1EPA 300.0HMB3340244539003050422003 (AE60495)EPA 20.8KXS2M2244539004050422004 (AE60496)EPA 20.8KXS2M2244539005050422004 (AE60496)EPA 20.8KXS2M2244539005050422005 (AE60497)EPA 20.8KXS2M2244539006050422005 (AE60497)EPA 20.8KXS2M2244539007050422006 (AE60498)EPA 20.8KXS2M2244539007050422007 (AE60499)EPA 20.8KXS2M2244539007050422007 (AE60499)EPA 20.8KXS2M2244539007050422007 (AE60499)EPA 20.8KXS2M2244539008050422008 (AE60500)EPA 20.8KXS2M2244539009050422009 (AE60501)EPA 20.8KXS2M2244539009050422009 (AE60501)EPA 20.0HMB340244539009050422009 (AE60501)EPA 20.0KXS2M22400EPA 20.0RK12M2244539009050422009 (AE60501)EPA 20.0KXS2M2244539009050422009 (AE60501)EPA 20.0HMB3M2244539009050422009 (AE60501)EPA 20.0KXS2M224000EPA 20.0KXS22M2244539009050422009 (AE60501)EPA 20.0KXS2M224000EPA 20.0KXS22 </td <td></td> <td></td> <td>EPA 300.0</td> <td>HMB</td> <td>3</td>			EPA 300.0	HMB	3
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EPA 300.0 HMB 3 40244539009 050422009 (AE60501) EPA 200.8 KXS 2 SM 2540C SRK 1 EPA 300.0 HMB 3			SM 2540C	SRK	1
40244539009 050422009 (AE60501) EPA 200.8 KXS 2 SM 2540C SRK 1 EPA 300.0 HMB 3			EPA 300.0	HMB	3
SM 2540C SRK 1 EPA 300.0 HMB 3	40244539009	050422009 (AE60501)	EPA 200.8	KXS	2
EPA 300.0 HMB 3			SM 2540C	SRK	1
			EPA 300.0	HMB	3

PASI-G = Pace Analytical Services - Green Bay



Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40244539

Sample: 050422001 (AE60493)	Lab ID:	40244539001	Collected:	05/04/22	2 09:51	Received: 05/	07/22 07:45 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Pace Anal	Method: EPA 2 ytical Services	00.8 Prepar - Green Bay	ation Meth	od: EP	A 200.8			
Boron Calcium	364 26900	ug/L ug/L	10.0 254	3.0 76.2	1 1	05/12/22 05:40 05/12/22 05:40	05/20/22 13:57 05/20/22 13:57	7440-42-8 7440-70-2	
2540C Total Dissolved Solids	Analytical Pace Anal	Method: SM 25 ytical Services	40C - Green Bay						
Total Dissolved Solids	254	mg/L	20.0	8.7	1		05/09/22 15:36		
300.0 IC Anions	Analytical Pace Anal	Method: EPA 3 ytical Services	00.0 - Green Bay						
Chloride Fluoride Sulfate	9.5J 1.3J 36.7	mg/L mg/L mg/L	10.0 1.6 10.0	2.2 0.48 2.2	5 5 5		05/17/22 20:13 05/17/22 20:13 05/17/22 20:13	16887-00-6 16984-48-8 14808-79-8	D3 D3
Sample: 050422002 (AE60494)	Lab ID:	40244539002	Collected:	05/04/22	2 13:22	Received: 05/	07/22 07:45 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Pace Anal	Method: EPA 2 ytical Services	00.8 Prepar - Green Bay	ation Meth	od: EP	A 200.8			
Boron Calcium	402 20700	ug/L ug/L	10.0 254	3.0 76.2	1 1	05/12/22 05:40 05/12/22 05:40	05/20/22 15:11 05/20/22 15:11	7440-42-8 7440-70-2	
2540C Total Dissolved Solids	Analytical Pace Anal	Method: SM 25 ytical Services	40C - Green Bay						
Total Dissolved Solids	214	mg/L	20.0	8.7	1		05/09/22 15:36		
300.0 IC Anions	Analytical Pace Anal	Method: EPA 3 ytical Services	00.0 - Green Bay						
Chloride Fluoride Sulfate	6.5J 1.6 33.9	mg/L mg/L mg/L	10.0 1.6 10.0	2.2 0.48 2.2	5 5 5		05/17/22 20:27 05/17/22 20:27 05/17/22 20:27	16887-00-6 16984-48-8 14808-79-8	D3
Sample: 050422003 (AE60495)	Lab ID:	40244539003	Collected:	05/04/22	2 15:38	Received: 05/	07/22 07:45 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Pace Anal	Method: EPA 2 ytical Services	00.8 Prepar - Green Bay	ation Meth	nod: EP	A 200.8			
Boron Calcium	455 52000	ug/L ug/L	10.0 254	3.0 76.2	1 1	05/12/22 05:40 05/12/22 05:40	05/20/22 14:27 05/20/22 14:27	7440-42-8 7440-70-2	



Project: Q-6005-001005 CALEDONIA LANDFI

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Pace Project No.: 40244539

Sample: 050422003 (AE60495)	Lab ID:	40244539003	Collected:	05/04/22	2 15:38	Received: 05/	07/22 07:45 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Pace Anal	Method: SM 25 ytical Services	40C - Green Bay						
Total Dissolved Solids	480	mg/L	20.0	8.7	1		05/09/22 15:36	6	
300.0 IC Anions	Analytical Pace Anal	Method: EPA 3 ytical Services	00.0 - Green Bay						
Chloride Fluoride Sulfate	11.9 1.6J 240	mg/L mg/L mg/L	10.0 1.6 40.0	2.2 0.48 8.9	5 5 20		05/17/22 20:42 05/17/22 20:42 05/18/22 15:09	2 16887-00-6 2 16984-48-8 9 14808-79-8	D3
Sample: 050422004 (AE60496)	Lab ID:	40244539004	Collected:	05/04/22	2 15:43	Received: 05/	/07/22 07:45 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Pace Anal	Method: EPA 2 ytical Services	00.8 Prepara - Green Bay	ation Meth	nod: EP/	A 200.8			
Boron Calcium	436 52100	ug/L ug/L	10.0 254	3.0 76.2	1 1	05/12/22 05:40 05/12/22 05:40	05/20/22 14:56 05/20/22 14:56	5 7440-42-8 5 7440-70-2	
2540C Total Dissolved Solids	Analytical Pace Anal	Method: SM 25 ytical Services	40C - Green Bay						
Total Dissolved Solids	488	mg/L	20.0	8.7	1		05/09/22 15:36	6	
300.0 IC Anions	Analytical Pace Anal	Method: EPA 3 ytical Services	00.0 - Green Bay						
Chloride Fluoride Sulfate	11.9 1.5J 230	mg/L mg/L mg/L	10.0 1.6 40.0	2.2 0.48 8.9	5 5 20		05/17/22 23:55 05/17/22 23:55 05/18/22 16:04	5 16887-00-6 5 16984-48-8 4 14808-79-8	B D3
Sample: 050422005 (AE60497)	Lab ID:	40244539005	Collected:	05/05/22	2 10:17	Received: 05/	/07/22 07:45 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Pace Anal	Method: EPA 2 ytical Services	00.8 Prepara - Green Bay	ation Meth	nod: EP/	A 200.8			
Boron Calcium	412 22900	ug/L ug/L	10.0 254	3.0 76.2	1 1	05/12/22 05:40 05/12/22 05:40	05/20/22 15:04 05/20/22 15:04	7440-42-8 7440-70-2	
2540C Total Dissolved Solids	Analytical Pace Anal	Method: SM 25 ytical Services	40C - Green Bay						
Total Dissolved Solids	180	mg/L	20.0	8.7	1		05/11/22 09:50)	



Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40244539

Sample: 050422005 (AE60497)	Lab ID:	40244539005	Collected	05/05/22	2 10:17	Received: 05/	07/22 07:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Pace Ana	Method: EPA 3 lytical Services	00.0 - Green Bay						
Chloride	7.1J	mg/L	10.0	2.2	5		05/18/22 00:40	16887-00-6	B,D3
Fluoride	1.6	mg/L	1.6	0.48	5		05/18/22 00:40	16984-48-8	
Sulfate	43.9	mg/L	10.0	2.2	5		05/18/22 00:40	14808-79-8	
Sample: 050422006 (AE60498)	Lab ID:	40244539006	Collected:	05/05/22	2 10:57	Received: 05/	07/22 07:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Pace Ana	Method: EPA 2 lytical Services	00.8 Prepar - Green Bay	ation Meth	od: EP	A 200.8			
Boron	499	ug/L	10.0	3.0	1	05/12/22 05:40	05/20/22 15:40	7440-42-8	
Calcium	29900	ug/L	254	76.2	1	05/12/22 05:40	05/20/22 15:40	7440-70-2	
2540C Total Dissolved Solids	Analytical Pace Ana	Method: SM 25 lytical Services	540C - Green Bay						
Total Dissolved Solids	298	mg/L	20.0	8.7	1		05/09/22 15:37		
300.0 IC Anions	Analytical Pace Ana	Method: EPA 3 lytical Services	00.0 - Green Bay						
Chloride	8.3J	mg/L	10.0	2.2	5		05/18/22 01:40	16887-00-6	B,D3
Fluoride	1.4J	mg/L	1.6	0.48	5		05/18/22 01:40	16984-48-8	D3
Sulfate	81.0	mg/L	10.0	2.2	5		05/18/22 01:40	14808-79-8	
Sample: 050422007 (AE60499)	Lab ID:	40244539007	Collected:	05/05/22	2 12:35	Received: 05/	07/22 07:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Pace Ana	Method: EPA 2 lytical Services	00.8 Prepar - Green Bay	ation Meth	od: EP	A 200.8			
Boron	370	ug/L	10.0	3.0	1	05/12/22 05:40	05/20/22 15:48	7440-42-8	
Calcium	28400	ug/L	254	76.2	1	05/12/22 05:40	05/20/22 15:48	7440-70-2	
2540C Total Dissolved Solids	Analytical Pace Ana	Method: SM 25 lytical Services	540C - Green Bay						
Total Dissolved Solids	198	mg/L	20.0	8.7	1		05/11/22 09:50		
300.0 IC Anions	Analytical Pace Ana	Method: EPA 3 lytical Services	00.0 - Green Bay						
Chloride	<2.2	mg/L	10.0	2.2	5		05/18/22 01:54	16887-00-6	D3
Fluoride	<0.48	mg/L	1.6	0.48	5		05/18/22 01:54	16984-48-8	D3
Sulfate	<2.2	mg/L	10.0	2.2	5		05/18/22 01:54	14808-79-8	D3

REPORT OF LABORATORY ANALYSIS

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Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40244539

Sample: 050422008 (AE60500)	Lab ID:	40244539008	Collected:	05/05/22	2 13:44	Received: 05/	/07/22 07:45 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical I Pace Analy	Method: EPA 2 /tical Services	00.8 Prepara - Green Bay	ation Meth	od: EP	A 200.8			
Boron Calcium	444 17900	ug/L ug/L	10.0 254	3.0 76.2	1 1	05/12/22 05:40 05/12/22 05:40	05/20/22 16:10 05/20/22 16:10	7440-42-8 7440-70-2	
2540C Total Dissolved Solids	Analytical I Pace Analy	Vethod: SM 25 /tical Services	540C - Green Bay						
Total Dissolved Solids	204	mg/L	20.0	8.7	1		05/11/22 09:51		
300.0 IC Anions	Analytical I Pace Analy	Method: EPA 3 /tical Services	00.0 - Green Bay						
Chloride Fluoride Sulfate	7.3J 1.9 36.7	mg/L mg/L mg/L	10.0 1.6 10.0	2.2 0.48 2.2	5 5 5		05/18/22 02:09 05/18/22 02:09 05/18/22 02:09	16887-00-6 16984-48-8 14808-79-8	B,D3
Sample: 050422009 (AE60501)	Lab ID:	40244539009	Collected:	05/05/22	2 14:20	Received: 05/	/07/22 07:45 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical I Pace Analy	Method: EPA 2 /tical Services	00.8 Prepara - Green Bay	ation Meth	od: EP	A 200.8			
Boron Calcium	<3.0 <76.2	ug/L ug/L	10.0 254	3.0 76.2	1 1	05/12/22 05:40 05/12/22 05:40	05/20/22 16:17 05/20/22 16:17	7440-42-8 7440-70-2	P4
2540C Total Dissolved Solids	Analytical I Pace Analy	Method: SM 25 /tical Services	540C - Green Bay						
Total Dissolved Solids	<8.7	mg/L	20.0	8.7	1		05/11/22 09:51		
300.0 IC Anions	Analytical I Pace Analy	Method: EPA 3 /tical Services	00.0 - Green Bay						
Chloride Fluoride Sulfate	0.69J <0.095 <0.44	mg/L mg/L mg/L	2.0 0.32 2.0	0.43 0.095 0.44	1 1 1		05/18/22 16:58 05/18/22 16:58 05/18/22 16:58	16887-00-6 16984-48-8 14808-79-8	В



Project:	Q-600	5-001005 CA	LEDONIA LAND	FI									
Pace Project No.:	40244	539											
QC Batch:	4154	97		Anal	ysis Metho	d: E	EPA 200.8						
QC Batch Method:	EPA	200.8		Anal	ysis Descri	otion: 2	200.8 MET						
				Labo	oratory:	F	Pace Analy	tical Servio	es - Green	Bay			
Associated Lab Sar	mples:	402445390 402445390	001, 4024453900 008, 4024453900	2, 4024453 9	39003, 4024	44539004, 4	402445390	05, 40244	539006, 402	44539007	,		
METHOD BLANK:	23921	38			Matrix: W	ater							
Associated Lab Sa	mples:	402445390 402445390	001, 4024453900 008, 4024453900	2, 4024453 9	39003, 4024	44539004, 4	402445390	05, 40244	539006, 402	44539007	,		
				Bla	nk	Reporting							
Para	meter		Units	Res	sult	Limit	Anal	yzed	Qualifiers	5			
Boron			ug/L		<3.0	10.0	0 05/19/2	2 15:55					
Calcium			ug/L		<76.2	254	4 05/19/2	2 15:55					
LABORATORY CO	NTROL	SAMPLE:	2392139										
_				Spike	LC	S	LCS	% F	Rec				
Para	meter		Units	Conc.	Res	sult	% Rec	Lim	its C	Qualifiers	_		
Boron			ug/L	25	50	230	9	2	85-115				
Calcium			ug/L	1000	00	10000	10	0	85-115				
MATRIX SPIKE & M	MATRIX	SPIKE DUPI	LICATE: 2392	140		2392141							
				MS	MSD								
_			40244539001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Boron		ug/L	364	250	250	564	586	80	89	75-125	4	20	
Calcium		ug/L	26900	10000	10000	36800	38500	99	116	75-125	5	20	
MATRIX SPIKE & M	MATRIX	SPIKE DUPI	LICATE: 2392	142		2392143							
				MS	MSD								
_		•••	40244539002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	. .
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Boron		ug/L	402	250	250	609	605	83	82	75-125	1	20	
Calcium		ug/L	20700	10000	10000	30200	31000	95	103	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Project:	Q-6005-001005 C	CALEDONIA LANDF	I					
Pace Project No.:	40244539							
QC Batch:	415202		Analysis Mo	ethod:	SM 2540C			
QC Batch Method:	SM 2540C		Analysis De	escription:	2540C Total D	issolved Solids		
			Laboratory	:	Pace Analytica	al Services - Gre	een Bay	
Associated Lab Sar	nples: 40244539	9001, 40244539002,	40244539003,	40244539004,	40244539006			
METHOD BLANK:	2390716		Matrix	k: Water				
Associated Lab Sar	mples: 40244539	9001, 40244539002,	40244539003,	40244539004,	40244539006			
			Blank	Reporting				
Parar	neter	Units	Result	Limit	Analyze	ed Quali	ifiers	
Total Dissolved Soli	ds	mg/L	<8.7	20	.0 05/09/22 1	5:29		
LABORATORY CO	NTROL SAMPLE:	2390717						
			Spike	LCS	LCS	% Rec		
Parar	neter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
Total Dissolved Soli	ds	mg/L	555	558	101	80-120		
SAMPLE DUPLICA	TE: 2390718							
			40244256001	Dup		Max		
Parar	neter	Units	Result	Result	RPD	RPD	Qualifiers	_
Total Dissolved Soli	ds	mg/L	528	3 53	36	2	10	
SAMPLE DUPLICA	TE: 2390719							
-			40244330001	Dup		Max		
Parar	neter	Units	Result	Result	RPD	RPD	Qualifiers	_
Total Dissolved Soli	ds	mg/L	912	<u> </u>	12	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	Q-6005-001005 C	ALEDONIA LANDFI	l						
Pace Project No.:	40244539								
QC Batch:	415392		Analysis Me	ethod: S	SM 2540C				
QC Batch Method:	SM 2540C		Analysis De	escription: 2	2540C Total Dis	solved Solids			
			Laboratory:	F	Pace Analytical	Services - Gre	en Bay		
Associated Lab San	nples: 40244539	9005, 40244539007,	40244539008,	40244539009					
METHOD BLANK:	2391516		Matrix	: Water					
Associated Lab San	nples: 40244539	0005, 40244539007,	40244539008,	40244539009					
			Blank	Reporting					
Paran	neter	Units	Result	Limit	Analyzec	l Quali	fiers		
Total Dissolved Solie	ds	mg/L	<8.7	20.0	0 05/11/22 09	:49			
LABORATORY COM	NTROL SAMPLE:	2391517							
_			Spike	LCS	LCS	% Rec			
Paran	neter	Units		Result	% Rec	Limits	Qual	ifiers	
Total Dissolved Solie	ds	mg/L	555	626	113	80-120			
	FF: 0204540								
SAMPLE DUPLICA	IE. 2391516		40244612001	Dup		Max			
Paran	neter	Units	Result	Result	RPD	RPD		Qualifiers	
Total Dissolved Solie	ds	mg/L	1020	1020	0	0	10		
SAMPLE DUPLICA	TE: 2391519								
			40244612002	Dup		Max			
Paran	neter	Units	Result	Result	RPD	RPD		Qualifiers	
Total Dissolved Soli	ds	mg/L	438	430	6	0	10		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Pace Project No	Q-600	5-001005 CA		DFI									
	102-1-	21 /		Anal	ucic Mothor	4. 1	EBN 300 0						
QC Batch Mothe	4150	200.0		Anal		u. I		iono					
QC Batch Metho	u. EFA	300.0		Ana		puon		liulis Haal Carrie		Bay			
Associated Lab	Samples:	402445390	001, 4024453900	Labo 2, 4024453	39003	ľ	-ace Analyi		es - Green	Бау			
METHOD BLAN	K: 23941	24			Matrix: W	ater							
Associated Lab	Samples:	402445390	01, 4024453900	02, 4024453	39003								
				Bla	nk	Reporting							
Pa	rameter		Units	Res	ult	Limit	Anal	yzed	Qualifier	5			
Chloride			mg/L		<0.43	2.	0 05/17/2	2 12:21					
Fluoride			mg/L		<0.095	0.3	2 05/17/2	2 12:21					
Sulfate			mg/L		<0.44	2.	0 05/17/2	2 12:21					
LABORATORY	CONTROL	SAMPLE:	2394125										
				Spike	LC	S	LCS	% R	ес				
Pa	rameter		Units	Conc.	Res	sult	% Rec	Limi	ts (Qualifiers			
Chloride			mg/L		20	20.3	10	2 9	90-110		_		
Fluoride			mg/L		2	2.0	10	1 9	90-110				
Sulfate			mg/L	4	20	20.2	10	1 9	90-110				
MATRIX SPIKE	& MATRIX	SPIKE DUPI	_ICATE: 2394	126		2394127							
				MS	MSD								
			40244870003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Param	eter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg/L	329	400	400	762	755	108	107	90-110	1	15	
Fluoride		mg/L	<0.48	10	10	12.0	10.9	120	109	90-110	9	15	MO
Sulfate		mg/L	32.2	100	100	150	138	118	106	90-110	8	15	M0
MATRIX SPIKE	& MATRIX	SPIKE DUPI	_ICATE: 2394	128		2394129	1						
				MS	MSD								
			40244539003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Param	eter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg/L	11.9	100	100	118	118	107	106	90-110	0	15	
Chionae													
Fluoride		mg/L	1.6J	10	10	12.1	12.1	106	105	90-110	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Pace Project No.:	Q-6005-001005 C 40244539	ALEDONIA LAND	FI									
QC Batch:	415990		Analy	sis Metho	d:	EPA 300.0						
QC Batch Method:	EPA 300.0		Analy	/sis Descri	ption:	300.0 IC An	ions					
			Labo	ratory:		Pace Analy	tical Servic	es - Green	Bay			
Associated Lab Sar	nples: 40244539	004, 4024453900	5, 4024453	9006, 402	44539007,	402445390	08, 402445	539009				
METHOD BLANK:	2395063			Matrix: W	ater							
Associated Lab Sar	nples: 40244539	004, 4024453900	5, 4024453	9006, 402	44539007,	402445390	08, 402445	539009				
			Blar	nk	Reporting							
Parar	neter	Units	Res	ult	Limit	Anal	yzed	Qualifier	S			
Chloride		mg/L		0.69J	2	.0 05/17/2	2 23:26					
Fluoride		mg/L		<0.095	0.3	32 05/17/2	2 23:26					
Sulfate		mg/L		<0.44	2	.0 05/17/2	2 23:26					
LABORATORY CO	NTROL SAMPLE:	2395064										
			Spike	LC	S	LCS	% R	ec				
Parar	neter	Units	Conc.	Res	sult	% Rec	Limi	its (Qualifiers			
Chloride		mg/L	2	20	21.3	10	6	90-110		_		
Fluoride		mg/L		2	2.2	10	8	90-110				
Sulfate		mg/L	2	20	21.2	10	6	90-110				
MATRIX SPIKE & M	IATRIX SPIKE DUF	PLICATE: 2395	065		239506	6						
			MS	MSD								
		40244539004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	. 11.9	100	100	117	122	105	110	90-110	5	15	
Fluoride	mg/L	. 1.5J	10	10	12.0	12.2	105	106	90-110	1	15	
Sulfate	mg/L	. 230	400	400	639	633	102	101	90-110	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40244539

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- B Analyte was detected in the associated method blank.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- P4 Sample field preservation does not meet EPA or method recommendations for this analysis.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40244539

Analytical QC Batch **QC Batch Method** Lab ID Sample ID **Analytical Method** Batch 40244539001 050422001 (AE60493) EPA 200.8 415497 415604 EPA 200.8 40244539002 050422002 (AE60494) EPA 200.8 415497 EPA 200.8 415604 40244539003 050422003 (AE60495) EPA 200.8 415497 EPA 200.8 415604 40244539004 050422004 (AE60496) 415497 EPA 200.8 EPA 200.8 415604 050422005 (AE60497) 40244539005 EPA 200.8 415497 EPA 200.8 415604 40244539006 050422006 (AE60498) EPA 200.8 415497 EPA 200.8 415604 050422007 (AE60499) 40244539007 EPA 200.8 415497 EPA 200.8 415604 40244539008 050422008 (AE60500) EPA 200.8 415497 EPA 200.8 415604 40244539009 050422009 (AE60501) EPA 200.8 415497 EPA 200.8 415604 050422001 (AE60493) SM 2540C 415202 40244539001 40244539002 050422002 (AE60494) SM 2540C 415202 050422003 (AE60495) 40244539003 SM 2540C 415202 40244539004 050422004 (AE60496) SM 2540C 415202 40244539005 050422005 (AE60497) SM 2540C 415392 40244539006 050422006 (AE60498) SM 2540C 415202 40244539007 050422007 (AE60499) SM 2540C 415392 40244539008 050422008 (AE60500) SM 2540C 415392 40244539009 050422009 (AE60501) SM 2540C 415392 40244539001 050422001 (AE60493) 415814 EPA 300.0 40244539002 050422002 (AE60494) 415814 EPA 300.0 050422003 (AE60495) 40244539003 EPA 300.0 415814 40244539004 050422004 (AE60496) EPA 300.0 415990 050422005 (AE60497) 40244539005 EPA 300.0 415990 050422006 (AE60498) 40244539006 EPA 300.0 415990 050422007 (AE60499) 40244539007 EPA 300.0 415990 40244539008 050422008 (AE60500) EPA 300.0 415990 40244539009 050422009 (AE60501) EPA 300.0 415990

Pace Analytical"

CHAIN-OF-CUSTODY / Analytical Request Document

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

40244539

Section	n A d Client Information:	Inform	nation [.]					Sect	ion C	molic	. .													Pa	ge:	1	of	1		
Compan	y: We Energies	Report To:	Patri	ck Ał	hrens					Attent	ion:	Ac	coun	ts Pa	ayable))										L				
Address	333 W. Everett St.	Copy To:								Comp	any N	ame:	We	Ene	rnies								0.01							
										Addre	SS.	33	3 10/	Ever	ott C	F MA	huou	koc	10/2	5 27	KEG	ULAT	URY	AG	ENC	1				
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	patrick.anrens@wecenergygroup.com	Purchase O		0 1	4/00004	930				Refere	nce:		_									UST	ا ا	F	CRA			<u> </u>	OTHER	
Phone:	414-221-2835 Fax	Project Nam	1e:	Cale	donia La	ndfill - C	CR Wells	- May 20	22	Pace I Manag	Project Ier:	Br	an B	aster	n						Site	Locat	on		14/1					
Request	ted Due Date/TAT: Normal TAT	Project Num	nber:	Q-60	05-0010	05				Pace F	Profile	# :										STA	TE:	_			- И			
																	F	Requ	uest	ed A	naly	sis Fi	iltere	d (Y	/N)	ľ	////			
	Section D Valid Matrix C	odes	eff)	6		0011						-				I N	2									\square				
	Required Client Information MATRIX DRINKING WATER	DW	es to l	No.					z		┝╌			atives	s T-T	ľ	N	N	N	N				+		ŀŀ	ЩЦ			
	WATER WASTE WATER	WT WW	d cod	ٿ ۳	COMPO	OSITE	COMPO	SITE	C10																		<u>_</u>			
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1	050422001 (AE60493)		GW	G			05/04/22	0951		2	1	1					×	×	х	х	x :	×						\mathcal{D}	\	
2	050422002 (AE60494)		GW	G			05/04/22	1322		2	1	1		_			×	х	x	х	x ;	x					Ć	200	<u>}</u>	
3	050422003 (AE60495)		GW	G			05/04/22	1538		2	1	1					×	х	x	х	x ;	x					<u> </u>	207	5	
4	050422004 (AE60496)		GW	G			05/04/22	1543		2	1	1					×	х	х	х	x ;	×					<u> </u>	<u>)0(</u>	ノ	
5	050522005 (AE60497)		GW	G			05/05/22	1017		2	1	1		_			×	x	х	х	x ;	×					10	20E		
6	050522006 (AE60498)		GŴ	G			05/05/22	1057		2	1	1					×	х	x	х	x ;	x			_		C	<u>X06</u>	>	
7	050522007 (AE60499)		GW	G			05/05/22	1235		2	1	1				_	×	x	x	х	x ;	×	ч.				E	20-	7	
8	050522008 (AE60500)		GW	G			05/05/22	1344		2	1	1					×	х	x	х	x ;	x					C	205	3	
9	050522009 (AE60501)		GW	G			05/05/22	1420		2	1	1					×	х	x	х	x ;	x					C	500	٦	
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*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.

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DC#_Title: ENV-FRM-GBAY-0035 v01_Sample Preservation Receipt Form Revision: 3 | Effective Date: | Issued by: Green Bay

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AG1H	1 lit	er am	iber g	lass l	HCL			BP	3B	250	mL pl	lastic	NaOl	H		VG	9U	40 m	nL cle	ar via	l unpi	res		wo	FU	4 oz	clear	r jar u	inpres	6			
AG45	125	mL a	mber	glas	s H28	SO4		BP	'3N	250	mL pl	lastic	HNO	3		VG	9H	40 m	nL cle	ar via	I HCL	-		WP	FU	4 oz	plasi	tic jar	unpr	es			
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Qualtrax Document ID: 41307

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Pace Analytical Services, LLC

DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR Rev

Revision: 3 Effective Date: Issued by: Green	Bay	
Sample	Condition Upo	n Receipt Form (SCUR)
Client Name: We Energy	<u>es</u>	WO#:40244539
Courier: KCS Logistics 🗌 Fed Ex 🔲 Speed	dee 🗖 UPS 🗖 W	
Client Pace Other:		
Tracking #:		40244539
Custody Seal on Cooler/Box Present: Kyes	no Seals intact:	
Packing Material: Bubble Wrap Bub		e 🗖 Other
Thermometer Used SR - 107	Type of Ice: Wet	Blue Dry None X Samples on ice, cooling process has begun
Cooler Temperature Uncorr:	3	Person examining contents:
Temp Blank Present: 🔲 yes 🕅 😡	Biological	Tissue is Frozen: ☐ yes ☐ no Date: 5[7]22{Initials: 200
Temp should be above freezing to 6° C. Biota Samples may be received at $\leq 0^{\circ}$ C if shipped on I	Dry Ice.	Labeled By Initials:
Chain of Custody Present:	Yes No N/A	1.
Chain of Custody Filled Out:	Yes 🗆 No 🖾 N/A	2.
Chain of Custody Relinquished:	Xyes □No □N/A	3.
Sampler Name & Signature on COC:	□Yes □No XN/A	4.
Samples Arrived within Hold Time:	Yes 🗆 No	5.
- VOA Samples frozen upon receipt	□Yes □No	Date/Time:
Short Hold Time Analysis (<72hr):	Yes 🗆 No	6.
Rush Turn Around Time Requested:	□Yes XNo	7.
Sufficient Volume:		8.
For Analysis: Yes 🗆 No MS/MSI	D: 🗆 Yes 🏹 No 🗆 N/A	
Correct Containers Used:	Xes □No	9.
-Pace Containers Used:	XYes XNO DINA	
-Pace IR Containers Used:		
Containers Intact:	Xes □No	10.
Filtered volume received for Dissolved tests		11.
Sample Labels match COC:		12.003 BP3N: "1543 517121A
-Includes date/time/ID/Analysis Matrix:	\mathcal{W}	
Trip Blank Present:	□Yes □No XN/A	13.
Trip Blank Custody Seals Present	□Yes □No XN/A	
Pace Trip Blank Lot # (if purchased):		
Client Notification/ Resolution:		If checked, see attached form for additional comments

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

Date/Time:

Page 2 of 2

If checked, see attached form for additional comments

Qualtrax Document ID: 41292

Person Contacted: Comments/ Resolution:

Pace Analytical Services, LLC

To: Bob Meidl

Total Calcium

Total Alkalinity as CaCO3

Total Boron

PSB Annex A231

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

Report Date: Friday, January 6, 2023

The following are the analytical results for samples received by Laboratory Services on 11/09/2022 :

Sample Description: Sample ID: Sample Collector:	110722001 AE63525 NATE DUDA	Caledonia (edonia CCR Well Sample Serial/Impact ID: W48 Sample Collection Date:			Collec	ction Time:	08:59
					Result	Analysis	Analysis	
Parameter		Result	LOD	<u>Units</u>	Flag	Method	Date	<u>Analyst</u>
Field Water Level		60.77	0.05	feet		H2OD	11/7/22	RAMBOLL
Field Temperature		11	0.1	Degrees C		TEMP	11/7/22	RAMBOLL
Field Conductivity		450	0	umhos		FCOND25	11/7/22	RAMBOLL
Field pH		7.7	0.1	Units		FIELDPH	11/7/22	RAMBOLL
Total Dissolved Solids		280	8.7	mg/L		Std Mtd 2540 C	11/14/22	020
Total Chloride		3.8	0.43	mg/L		EPA 300.0	11/11/22	020
Total Sulfate		0.47	0.44	mg/L	J	EPA 300.0	11/11/22	020
Total Calcium		26000	1140	ug/L		EPA 200.7	11/18/22	020
Total Boron		386	17.3	ug/L		EPA 200.7	11/17/22	020
Total Alkalinity as CaCO3		227	5	mg/L		SM 2320 B-1997	11/16/22	020
Nitrate-Nitrite as N		Less Than	0.021	mg/L	Н3	EPA 300.0	11/11/22	020
Total Hardness as CaCO3		136	10	mg/L		Std Mtd 2340B	11/18/22	020
Total Copper		Less Than	0.0034	mg/L		EPA 200.7	11/17/22	020
Total Manganese		0.0155	0.0015	mg/L		EPA 200.7	11/17/22	020
Total Silver		Less Than	0.0032	mg/L		EPA 200.7	11/17/22	020
Total Zinc		Less Than	0.0116	mg/L		EPA 200.7	11/17/22	020
Dissolved Calcium		25.5	0.114	mg/L		EPA 200.7	11/18/22	020
Dissolved Chloride		4.0	0.43	mg/L		EPA 300.0	11/27/22	020
Dissolved Magnesium		16.4	0.182	mg/L		EPA 200.7	11/18/22	020
Dissolved Sodium		44.6	3.500	mg/L		EPA 200.7	11/18/22	020
Dissolved Potassium		1.47	0.325	mg/L		EPA 200.7	11/18/22	020
Dissolved Sulfate		Less Than	0.44	mg/L		EPA 300.0	11/27/22	020
Sample Description:	110722002	Caledonia (CCR Well Sample	9				
Sample ID:	AE63526		Serial/Impact II	D: W46D				
Sample Collector:	NATE DUDA		Sample Collecti	on Date:	11/7/22	Colle	ction Time:	09:39
					Dosult	Analysis	Analysis	
Paramatar		Result	LOD	Unite	Flag	Method	Anarysis Doto	Analyst
		40.50	0.05	<u>Cints</u>	<u>1 142</u>	HICHOU	11/7/22	<u>Anaryst</u>
Field Water Level		49.59	0.05	Ieet		H2OD TEMD	11/7/22	RAMBOLL
Field Conductivity		12	0.1	Degrees C		I EMP	11/7/22	RAMBOLL
Field pH		430 7 1	0 1	umnos		FCUND25	11/7/22	RAMBULL
Total Dissolved Solida		/.1	0.1	Units		FIELDPH	11/1/22	KAWBULL
Total Dissolved Solids		210 6 9	ð./ 0.42	mg/L		EDA 200.0	11/14/22	020
Total Chiofide		0.0	0.43	mg/L		EFA 300.0	11/11/22	020
Total Sullate		34.4	0.44	mg/L		EPA 300.0	11/11/22	020

EPA 200.7

EPA 200.7

SM 2320 B-1997

11/17/22

11/17/22

11/16/22

020

020

020

ug/L

ug/L

mg/L

114

17.3

5

24600

368

164



Nitrate-Nitrite as N	Less Than	0.021	mg/L	H3	EPA 300.0	11/11/22	020
Total Hardness as CaCO3	122	1.000	mg/L		Std Mtd 2340B	11/17/22	020
Total Copper	Less Than	0.0034	mg/L		EPA 200.7	11/17/22	020
Total Manganese	0.0472	0.0015	mg/L		EPA 200.7	11/17/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	11/17/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	11/17/22	020
Dissolved Calcium	24.6	0.114	mg/L		EPA 200.7	11/18/22	020
Dissolved Chloride	5.7	0.43	mg/L		EPA 300.0	11/27/22	020
Dissolved Magnesium	14.3	0.182	mg/L		EPA 200.7	11/18/22	020
Dissolved Sodium	33.5	0.350	mg/L		EPA 200.7	11/18/22	020
Dissolved Potassium	1.73	0.325	mg/L		EPA 200.7	11/18/22	020
Dissolved Sulfate	35.0	0.44	mg/L		EPA 300.0	11/27/22	020

Sample Description: 110722003 Sample ID: AE63527

Caledonia CCR Well Sample

Sample Collector: NATE DUDA Serial/Impact ID: QAQC1 Sample Collection Date:

11/7/22

Collection Time: 09:44

				Result	Analysis	Analysis	
<u>Parameter</u>	<u>Result</u>	LOD	<u>Units</u>	Flag	Method	<u>Date</u>	Analyst
Total Dissolved Solids	222	8.7	mg/L		Std Mtd 2540 C	11/14/22	020
Total Chloride	6.4	0.43	mg/L		EPA 300.0	11/11/22	020
Total Sulfate	34.8	0.44	mg/L		EPA 300.0	11/11/22	020
Total Calcium	25700	114	ug/L		EPA 200.7	11/17/22	020
Total Boron	378	17.3	ug/L		EPA 200.7	11/17/22	020
Total Alkalinity as CaCO3	162	5	mg/L		SM 2320 B-1997	11/16/22	020
Nitrate-Nitrite as N	Less Than	0.021	mg/L	H3	EPA 300.0	11/11/22	020
Total Hardness as CaCO3	127	1.0	mg/L		Std Mtd 2340B	11/17/22	020
Total Copper	Less Than	0.0034	mg/L		EPA 200.7	11/17/22	020
Total Manganese	0.0512	0.0015	mg/L		EPA 200.7	11/17/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	11/17/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	11/17/22	020
Dissolved Calcium	25.0	0.114	mg/L		EPA 200.7	11/18/22	020
Dissolved Chloride	5.5	0.43	mg/L		EPA 300.0	11/27/22	020
Dissolved Magnesium	14.7	0.182	mg/L		EPA 200.7	11/18/22	020
Dissolved Sodium	34.3	0.350	mg/L		EPA 200.7	11/18/22	020
Dissolved Potassium	1.76	0.325	mg/L		EPA 200.7	11/18/22	020
Dissolved Sulfate	34.7	0.44	mg/L		EPA 300.0	11/27/22	020

Sample Description: Sample ID: Sample Collector:

110722004 AE63528

Caledonia CCR Well Sample

NATE DUDA

Serial/Impact ID:

W10D Sample Collection Date: 11/7/22

Collection Time: 10:33

				Result	Analysis	Analysis	
<u>Parameter</u>	<u>Result</u>	LOD	<u>Units</u>	Flag	Method	Date	Analyst
Field Water Level	51.53	0.05	feet		H2OD	11/7/22	RAMBOLL
Field Temperature	10	0.1	Degrees C		TEMP	11/7/22	RAMBOLL
Field Conductivity	390	0	umhos		FCOND25	11/7/22	RAMBOLL
Field pH	7.7	0.1	Units		FIELDPH	11/7/22	RAMBOLL
Total Dissolved Solids	218	8.7	mg/L		Std Mtd 2540 C	11/14/22	020
Total Chloride	3.9	0.43	mg/L		EPA 300.0	11/11/22	020
Total Sulfate	42.2	0.44	mg/L		EPA 300.0	11/11/22	020
Total Calcium	20200	114	ug/L		EPA 200.7	11/17/22	020
Total Boron	443	17.3	ug/L		EPA 200.7	11/17/22	020
Total Alkalinity as CaCO3	136	5	mg/L		SM 2320 B-1997	11/16/22	020
Nitrate-Nitrite as N	Less Than	0.021	mg/L	H3	EPA 300.0	11/11/22	020
Total Hardness as CaCO3	82.9	1.000	mg/L		Std Mtd 2340B	11/17/22	020
Total Copper	Less Than	0.0034	mg/L		EPA 200.7	11/17/22	020
Total Manganese	0.0191	0.0015	mg/L		EPA 200.7	11/17/22	020

Total Silver	Less Than	0.0032	mg/L	EPA 200.7	11/17/22	020
Total Zinc	Less Than	0.0116	mg/L	EPA 200.7	11/17/22	020
Dissolved Calcium	20.6	0.114	mg/L	EPA 200.7	11/18/22	020
Dissolved Chloride	4.1	0.43	mg/L	EPA 300.0	11/27/22	020
Dissolved Magnesium	7.91	0.182	mg/L	EPA 200.7	11/18/22	020
Dissolved Sodium	43.6	0.350	mg/L	EPA 200.7	11/18/22	020
Dissolved Potassium	1.34	0.325	mg/L	EPA 200.7	11/18/22	020
Dissolved Sulfate	41.9	0.44	mg/L	EPA 300.0	11/27/22	020

Sample Description:	110722005	Caledonia CCR Well Sample			
Sample ID:	AE63529	Serial/Impact ID: W09D			
Sample Collector:	NATE DUDA	Sample Collection Date:	11/7/22	Collection Time:	11:13

				Result	Analysis	Analysis	
<u>Parameter</u>	<u>Result</u>	LOD	<u>Units</u>	Flag	<u>Method</u>	Date	Analyst
Field Water Level	54.43	0.05	feet		H2OD	11/7/22	RAMBOLL
Field Temperature	11	0.1	Degrees C		TEMP	11/7/22	RAMBOLL
Field Conductivity	380	0	umhos		FCOND25	11/7/22	RAMBOLL
Field pH	7.9	0.1	Units		FIELDPH	11/7/22	RAMBOLL
Total Dissolved Solids	212	8.7	mg/L		Std Mtd 2540 C	11/14/22	020
Total Chloride	3.6	0.43	mg/L		EPA 300.0	11/11/22	020
Total Sulfate	32.9	0.44	mg/L		EPA 300.0	11/11/22	020
Total Calcium	17900	114	ug/L		EPA 200.7	11/17/22	020
Total Boron	422	17.3	ug/L		EPA 200.7	11/17/22	020
Total Alkalinity as CaCO3	142	5	mg/L		SM 2320 B-1997	11/16/22	020
Nitrate-Nitrite as N	Less Than	0.021	mg/L	H3	EPA 300.0	11/11/22	020
Total Hardness as CaCO3	86.8	1.000	mg/L		Std Mtd 2340B	11/17/22	020
Total Copper	Less Than	0.0034	mg/L		EPA 200.7	11/17/22	020
Total Manganese	0.0076	0.0015	mg/L		EPA 200.7	11/17/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	11/17/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	11/17/22	020
Dissolved Calcium	18.4	0.114	mg/L		EPA 200.7	11/18/22	020
Dissolved Chloride	3.9	0.43	mg/L		EPA 300.0	11/27/22	020
Dissolved Magnesium	10.3	0.182	mg/L		EPA 200.7	11/18/22	020
Dissolved Sodium	41.6	0.350	mg/L		EPA 200.7	11/18/22	020
Dissolved Potassium	0.965	0.325	mg/L	J	EPA 200.7	11/18/22	020
Dissolved Sulfate	33.7	0.44	mg/L		EPA 300.0	11/27/22	020

Sample Description: 110722006 Sample ID:

AE63530

Caledonia CCR Well Sample

Sample Collector: NATE DUDA Serial/Impact ID:

W08D Sample Collection Date: 11/7/22

Collection Time: 11:46

				Result	Analysis	Analysis	
<u>Parameter</u>	<u>Result</u>	LOD	<u>Units</u>	Flag	Method	Date	<u>Analyst</u>
Field Water Level	49.59	0.05	feet		H2OD	11/7/22	RAMBOLL
Field Temperature	12	0.1	Degrees C		TEMP	11/7/22	RAMBOLL
Field Conductivity	800	0	umhos		FCOND25	11/7/22	RAMBOLL
Field pH	7.7	0.1	Units		FIELDPH	11/7/22	RAMBOLL
Total Dissolved Solids	482	8.7	mg/L		Std Mtd 2540 C	11/14/22	020
Total Chloride	9.5	0.43	mg/L		EPA 300.0	11/11/22	020
Total Sulfate	210	2.2	mg/L		EPA 300.0	11/27/22	020
Total Calcium	48600	114	ug/L		EPA 200.7	11/17/22	020
Total Boron	460	17.3	ug/L		EPA 200.7	11/17/22	020
Total Alkalinity as CaCO3	158	5	mg/L		SM 2320 B-1997	11/16/22	020
Nitrate-Nitrite as N	Less Than	0.021	mg/L	H3	EPA 300.0	11/11/22	020
Total Hardness as CaCO3	213	1.000	mg/L		Std Mtd 2340B	11/17/22	020
Total Copper	Less Than	0.0034	mg/L		EPA 200.7	11/17/22	020
Total Manganese	0.163	0.0015	mg/L		EPA 200.7	11/17/22	020

Total Silver Total Zinc	Less Than Less Than	0.0032 0.0116	mg/L mg/L	EPA 200.7 EPA 200.7	11/17/22 11/17/22	020 020
Dissolved Calcium	50.4	0.114	mg/L	EPA 200.7	11/18/22	020
Dissolved Chloride	10.1	0.43	mg/L	EPA 300.0	11/27/22	020
Dissolved Magnesium	22.5	0.182	mg/L	EPA 200.7	11/18/22	020
Dissolved Sodium	75.6	0.350	mg/L	EPA 200.7	11/18/22	020
Dissolved Potassium	3.04	0.325	mg/L	EPA 200.7	11/18/22	020
Dissolved Sulfate	219	4.4	mg/L	EPA 300.0	11/28/22	020

Sample Description:	110722007	Caledonia CCR Well Sample			
Sample ID:	AE63531	Serial/Impact ID: W50)		
Sample Collector:	NATE DUDA	Sample Collection Date:	11/7/22	Collection Time:	12:22

				Result	Analysis	Analysis	
Parameter	<u>Result</u>	LOD	<u>Units</u>	Flag	<u>Method</u>	Date	Analyst
Field Water Level	42.15	0.05	feet		H2OD	11/7/22	RAMBOLL
Field Temperature	12	0.1	Degrees C		TEMP	11/7/22	RAMBOLL
Field Conductivity	510	0	umhos		FCOND25	11/7/22	RAMBOLL
Field pH	7.6	0.1	Units		FIELDPH	11/7/22	RAMBOLL
Total Dissolved Solids	292	8.7	mg/L		Std Mtd 2540 C	11/14/22	020
Total Chloride	5.8	0.43	mg/L		EPA 300.0	11/11/22	020
Total Sulfate	67.0	2.2	mg/L		EPA 300.0	11/14/22	020
Total Calcium	28900	114	ug/L		EPA 200.7	11/17/22	020
Total Boron	541	17.3	ug/L		EPA 200.7	11/17/22	020
Total Alkalinity as CaCO3	148	5	mg/L		SM 2320 B-1997	11/16/22	020
Nitrate-Nitrite as N	Less Than	0.021	mg/L	H3	EPA 300.0	11/11/22	020
Total Hardness as CaCO3	117	1.000	mg/L		Std Mtd 2340B	11/17/22	020
Total Copper	Less Than	0.0034	mg/L		EPA 200.7	11/17/22	020
Total Manganese	0.0388	0.0015	mg/L		EPA 200.7	11/17/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	11/17/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	11/17/22	020
Dissolved Calcium	27.7	0.114	mg/L		EPA 200.7	11/18/22	020
Dissolved Chloride	6.0	0.43	mg/L		EPA 300.0	11/27/22	020
Dissolved Magnesium	10.1	0.182	mg/L		EPA 200.7	11/18/22	020
Dissolved Sodium	55.1	0.350	mg/L		EPA 200.7	11/18/22	020
Dissolved Potassium	1.64	0.325	mg/L		EPA 200.7	11/18/22	020
Dissolved Sulfate	86.7	2.2	mg/L		EPA 300.0	11/28/22	020

Sample Description: 110722008 Sample ID: Sample Collector: AE63532

Caledonia CCR Well Sample

NATE DUDA

Serial/Impact ID:

Sample Collection Date:

W49 11/7/22

Collection Time: 13:28

-	DK			Result	Analysis	Analysis	
<u>Parameter</u>	Result	LOD	Units	Flag	<u>Method</u>	Date	<u>Analyst</u>
Field Water Level	65.0	0.05	feet		H2OD	11/7/22	RAMBOLL
Field Temperature	12	0.1	Degrees C		TEMP	11/7/22	RAMBOLL
Field Conductivity	380	0	umhos		FCOND25	11/7/22	RAMBOLL
Field pH	8.1	0.1	Units		FIELDPH	11/7/22	RAMBOLL
Total Dissolved Solids	220	8.7	mg/L		Std Mtd 2540 C	11/14/22	020
Total Chloride	4.3	0.43	mg/L		EPA 300.0	11/11/22	020
Total Sulfate	50.0	0.44	mg/L		EPA 300.0	11/11/22	020
Total Calcium	15600	114	ug/L		EPA 200.7	11/17/22	020
Total Boron	458	17.3	ug/L		EPA 200.7	11/17/22	020
Total Alkalinity as CaCO3	126	5.0	mg/L		SM 2320 B-1997	11/16/22	020
Nitrate-Nitrite as N	Less Than	0.021	mg/L	H3	EPA 300.0	11/11/22	020
Total Hardness as CaCO3	66.6	1.000	mg/L		Std Mtd 2340B	11/17/22	020
Total Copper	Less Than	0.0034	mg/L		EPA 200.7	11/17/22	020
Total Manganese	0.0256	0.0015	mg/L		EPA 200.7	11/17/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	11/17/22	020
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Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	11/17/22	020
Dissolved Calcium	15.7	0.114	mg/L		EPA 200.7	11/18/22	020
Dissolved Chloride	4.5	0.43	mg/L		EPA 300.0	11/27/22	020
Dissolved Magnesium	6.770	0.182	mg/L		EPA 200.7	11/18/22	020
Dissolved Sodium	50.1	0.350	mg/L		EPA 200.7	11/18/22	020
Dissolved Potassium	0.804	0.325	mg/L	J	EPA 200.7	11/18/22	020
Dissolved Sulfate	48.2	0.44	mg/L		EPA 300.0	11/27/22	020

Sample Description:	110722009	Caledonia CCR Well Sample					
Sample ID:	AE63533	Serial/Impact ID:	EB1				
Sample Collector:	NATE DUDA	Sample Collection Da	ate:	11/7/22	Collection Time:	13:45	

				Result	Analysis	Analysis	
<u>Parameter</u>	Result	LOD	<u>Units</u>	Flag	Method	<u>Date</u>	Analyst
Field Temperature	15	0.1	Degrees C		TEMP	11/7/22	RAMBOLL
Field Conductivity	40	0	umhos		FCOND25	11/7/22	RAMBOLL
Field pH	8.1	0.1	Units		FIELDPH	11/7/22	RAMBOLL
Total Dissolved Solids	14.0	8.7	mg/L	J	Std Mtd 2540 C	11/14/22	020
Total Chloride	Less Than	0.43	mg/L		EPA 300.0	11/11/22	020
Total Sulfate	Less Than	0.44	mg/L		EPA 300.0	11/11/22	020
Total Calcium	Less Than	114	ug/L		EPA 200.7	11/17/22	020
Total Boron	Less Than	17.3	ug/L		EPA 200.7	11/17/22	020
Total Alkalinity as CaCO3	Less Than	5.0	mg/L		SM 2320 B-1997	11/16/22	020
Nitrate-Nitrite as N	0.12	0.044	mg/L	J	EPA 300.0	11/11/22	020
Total Hardness as CaCO3	Less Than	1.000	mg/L		Std Mtd 2340B	11/17/22	020
Total Copper	Less Than	0.0034	mg/L		EPA 200.7	11/17/22	020
Total Manganese	Less Than	0.0015	mg/L		EPA 200.7	11/17/22	020
Total Silver	Less Than	0.0032	mg/L		EPA 200.7	11/17/22	020
Total Zinc	Less Than	0.0116	mg/L		EPA 200.7	11/17/22	020
Dissolved Calcium	Less Than	0.114	mg/L		EPA 200.7	11/18/22	020
Dissolved Chloride	Less Than	0.43	mg/L		EPA 300.0	11/27/22	020
Dissolved Magnesium	Less Than	0.182	mg/L		EPA 200.7	11/18/22	020
Dissolved Sodium	Less Than	0.350	mg/L		EPA 200.7	11/18/22	020
Dissolved Potassium	Less Than	0.325	mg/L		EPA 200.7	11/18/22	020
Dissolved Sulfate	Less Than	0.44	mg/L		EPA 300.0	11/27/22	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



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.



APPENDIX D

2022 LEACHATE PIPE CLEANING AND INSPECTION REPORT [PER NR 506.20(3)(D)]

We Energies CALEDONIA ASH LANDFILL – FACILITY #3232

DOCUMENTATION FOR HIGH PRESSURE WATER JET CLEANING OF LEACHATE COLLECTION SYSTEMS

Name of contractor:	Great Lakes TV Seal, Inc.								
Date work was performed:	10/6/2022 -11/9/2022								
Description of water jet clea	ining system:								
2015 Vactor 2100 Plus 80	2015 Vactor 2100 Plus 80 gpm at 2500 psi								
Enz Roto Pulse Nozzle									
Enz Turbo Pulse Nozzle									
Used 348,000 gallons of wat	ter to jet landfill								
Foreman: Greg Healy									

Pipe cleaned (check appropriate areas):

Laborer: Ruvisel Cortez

X	Cell #1 (cleanout 1 to cleanout 20)
Х	Cell #2 (cleanout 2 to cleanout 19)
Х	Cell #3 (cleanout 3 to cleanout 18)
Х	Cell #4 (cleanout 4 to cleanout 17)
X	Cell #6 (cleanout 5 to cleanout 16)
Х	Cell #8 (cleanout 6 to cleanout 15)
Х	Manhole 2 to Manhole 1
X	Manhole 3 to Manhole 2
X	Manhole 4 to Manhole 3
X	Manhole 5 to Manhole 4
X	Manhole 6 to Manhole 5
X	Force main (Manhole 1 to valve pit)
Х	Valve pit to North Tank
Х	Valve pit to South Tank
Х	North Tank (clean out sediment)
Х	South Tank (clean out sediment)
Х	Manhole 7 to Cleanout 14
Х	Manhole 6 to Manhole 7

Problems encountered:	Yes	No	Х	-
Description of problems:				
Repairs performed:	Yes	_ No	Х	-
Description of repairs:				
Signed:	Ind			
	\sim			
Return completed form to	ENV – Eric Kovatch			

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We Energies CALEDONIA ASH LANDFILL – FACILITY #3232

DNR REQUIRED DOCUMENTATION FOR ANNUAL PRESSURE TEST OF THE LEACHATE COLLECTION SYSTEM FORCE MAIN

Name of Contractor:	Great Lakes TV Seal, In	с.						
Date Work was Perfo	rmed:11/9/2022							
Test Pressure:	_4.0 psi	_						
Procedure:	The force main for the and held at this pressu	collection system wa re for 75 minutes.	s pressuri	zed to 50 psig				
System pressure was	maintained: X	Yes		No				
Problems encountere	ed:	Yes	Х	No				
Description of corrections made if any problems were encountered:								
Used alternative test	procedure. Tested at 4.	0 psi for 15 minutes.						
_								
Signed:								

Return completed form to Eric Kovatch













CLEANING

REPORTS

Great Lakes 3600 Kewaunee Rd. Green Bay, WI 54311 920-863-3663

10/7/2022	We Energies	Caledonia Ash Landfill - Facility #3232	Edgerton Contractors	STORM:
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

SEC	TION TO MH	PIPE	PIPE LENGTH	Lasement Machine used?	REMARKS
		(inch)	(feet)	≥ ≻	
CO 20	MH 1	6	667	×	CO 20 buried / Did not jet
CO 19	MH 2	6	926	×	Jetted 280' / Hose would not advance
CO 18	MH 3	9	1109	×	Jetted 450' / Hose would not advance
CO 17	MH 4	6	1164	×	Jetted 500' / Hose would not advance
CO 16	MH 5	9	1241	×	Jetted 500' / Hose would not advance
CO 15	MH 6	9	1215	×	Jetted 450' / Hose would not advance
CO 14	2 HM	9	1025	×	Jetted 500' / Hose would not advance
2 HM	CO 14	9	1025	×	Jetted 800' / Jetted twice
		9			

6			
+		E	LINC.
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C)"		H

/9/2022	e Energies	ledonia Ash Landfill - Facility #3232	gerton Contractors	STORM:
10/9	We	Cale	Edg(5
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

REMARKS		Jetted five times / Heavy ash buildup	Jetted 600' / Four times / Heavy ash buildup						
sement achine sed?	z	×	×		 	 	 	 	
n Re	٢			 					
PIPE	(feet)	440	820						
PIPE SIZE	(inch)	4	4						
ION MH		Valve MH 2	Force Main MH 2						
SECT MH 7		Force Main MH 3	Force Main MH 3						

C	
+	L'RC.
ğ	SEAL
5	

/10/2022	e Energies	ledonia Ash Landfill - Facility #3232	gerton Contractors	STORM:
10/1	We	Cale	Edge	7
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

								l.		
REMARKS										
		Jetted three times	Jetted 800'							
sement achine ised?	z	×	×							
r Z Ea	Y									
DIPE PIPE	(feet)	260	1025							
PIPE SIZE	(inch)	9	9							
ION TO MH		MH 6	CO 14							
SECT MH T		MH 7	MH 6							



10/12/2022	We Energies	Caledonia Ash Landfill - Facility #3232	Edgerton Contractors	STORM:
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

REMARKS		Jetted 800'	Jetted three times / Heavy ash buildup	Jetted 800' / Three times / Heavy ash buildup						
ement chine sed?	z	×	×	×						
Eas Ma u:	٢									
PIPE LENGTH	(feet)	1215	233	1241						
PIPE SIZE	(inch)	6	6	6						
HM 0.		CO 5	MH 5	CO 16						
SECT MH T		MH 6	MH 6	MH 5			×			

Ć	R	
H	S	LINC.
ð	5	SEAL
0	-	Z

We Energies	Caledonia Ash Landfill - Facility #3232	Edgerton Contractors	J STORM:
OWNER: V	LOCATION: 0	ONTRACTOR: E	LEACHATE:
	OWNER: We Energies	OWNER: We Energies LOCATION: Caledonia Ash Landfill - Facility #3232	OWNER: We Energies LOCATION: Caledonia Ash Landfill - Facility #3232 CONTRACTOR: Edgerton Contractors

	_			 	 	 		
REMARKS	Jetted five times / Heavy ash buildup	Jetted three times / Heavy ash buildup						
nent hine d? N	×	×						
Laser Macl use								
PIPE LENGTH (feet)	205	1104						
PIPE SIZE (inch)	9	9						
NOI MH	MH 4	CO 17						
SECT MH T	MH 5	MH 4						

at	S	ILINC.
e ge	3	TV SEA

10/18/2022	We Energies	Caledonia Ash Landfill - Facility #3232	Edgerton Contractors	STORM:
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

REMARKS	ted 800'							
ent I? N	X Jet	 	 				 -	
Easem Machi used Y								
PIPE LENGTH (feet)	1104							
PIPE SIZE (inch)	9							
D MH O	CO 17							
SECT MH T	MH 4							



		ty #3232		
10/19/2022	We Energies	Caledonia Ash Landfill - Facili	Edgerton Contractors	STORM:
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

	STATISTICS.			_		 		 	 	
REMARKS		uildup.								
		Jetted 260' / Heavy ash bu	Removed 1"-2" of debris							
ment chine ed?	z	×								
Ease Mac us	۲									
PIPE LENGTH	(feet)	260								
PIPE SIZE	(inch)	9								
TON TO MH		MH 3								
SECT MH 7		MH 4	North Holding Tank							



10/20/2022	We Energies	Caledonia Ash Landfill - Facility #3232	Edgerton Contractors	STORM:
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

REMARKS		Jetted four times / Heavy ash buildup	Jetted 800' / Three times / Heavy ash buildup						
iement achine ised?	z	×	×		 		 		
Eas M:	۲					 		 	
PIPE	(feet)	260	1109						
PIPE SIZE	(inch)	9	9						
ION O MH		MH 3	CO 18						
SECT MH T		MH 4	MH 3						

C	R	
at	No.	ALINC.
B		TV SE

.0/21/2022	Ve Energies	aledonia Ash Landfill - Facility #3232	dgerton Contractors	J STORM:
10	3	Ca	Е	
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE

SEC	TION TO MH	PIPE SIZE (inch)	PIPE LENGTH (feet)	Easement Machine used? Y N	REMARKS
MH 3	CO 18	9	1109	×	/ Jetted 800' / Twice / Heavy ash buildup

Ć	Re	
Great	TV SEALINC.	

.0/25/2022	Ve Energies	aledonia Ash Landfill - Facility #3232	dgerton Contractors	J STORM:
DATE: 1	OWNER: 1	LOCATION: 0	CONTRACTOR: E	LEACHATE:

Jetted four times / Heavy ash buildup	Jetted 800' / Heavy ash buildup												
×	×												
260	920												
9	9												
MH 3	CO 19												
MH 2	MH 2												
	MH 2 MH 3 6 260 X Jetted four times / Heavy ash buildup	MH 2 MH 3 6 260 X Jetted four times / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup	MH 2 MH 3 6 260 X Jetted four times / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup	MH 2 MH 3 6 260 X Jetted four times / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup	MH 2 MH 3 6 260 X Jetted four times / Heavy ash buildup MH 2 C0 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 C0 19 6 920 X Jetted 800' / Heavy ash buildup	MH 2 MH 3 6 260 X Jetted four times / Heavy ash buildup MH 2 C0 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 C0 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 C0 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 C0 19 F P P P MH 2 F P P P P MH 2 MH 2 F P P P	MH 2 MH 3 6 260 X Jetted four times / Heavy ash buildup MH 2 CO 19 6 920 X Jetted four times / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup	MH 2 MH 3 6 260 X Jetted four times / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 3 M 3 M 3 M 3 M 3 M 3 M 3	MH 2 MH 3 6 260 X Letted four times / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup MH 2 CO 19 6 920 X Jetted 800' / Heavy ash buildup M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3	MH 2 MH 3 6 260 X letted four times / Heavy ash buildup MH 2 C019 6 920 X letted 800' / Heavy ash buildup MH 2 C019 6 920 X letted 800' / Heavy ash buildup MH 2 C019 6 920 X letted 800' / Heavy ash buildup MH 2 C019 6 920 X letted 800' / Heavy ash buildup M 2 C019 6 920 X letted 800' / Heavy ash buildup M 2 C019 6 1 1 1 1 M 2 C019 6 1 1 1 1 M 2 C019 1 1 1 1 1	MH2 MH3 6 260 X letted four times / Heavy ash buildup MH2 C019 6 920 X letted four times / Heavy ash buildup MH2 C019 6 920 X letted 800' / Heavy ash buildup MH2 Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point <	MH 2 MH 3 6 260 X Letted four times / Heavy ash buildup MH 2 C019 6 920 X Jetted four times / Heavy ash buildup MH 2 C019 6 920 X Jetted 800 / Heavy ash buildup MH 2 C019 1 1 1 1 1 MH 2 C019 1 1 1 1 1 1 MH 2 C019 1	MH2 MH3 6 260 X Interder / Heavy ash buildup MH2 C019 6 920 X Jetted 6007 / Heavy ash buildup MH2 C019 6 920 X Jetted 8007 / Heavy ash buildup MH2 C019 6 920 X Jetted 8007 / Heavy ash buildup MH2 C019 6 P P P P MH2 P P P P P P MH2 P P P P P P MH2 P P P P P P P MH2 P

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ireat	akes	V SEALINC.
Je	la l	TV SEAL

/2022	ergies	onia Ash Landfill - Facility #3232	on Contractors	STORM:
10/26/2	Ne Enei	Caledon	Edgerto	S.
DATE:	OWNER: V	LOCATION:	CONTRACTOR: E	LEACHATE:

	_			 	 	 		 	
REMARKS	Jetted 800' / Twice / Heavy ash buildup								
:ment chine ed? N	X								
Lase Mac us									
PIPE LENGTH (feet)	920								
PIPE SIZE (inch)	. 9	12							
TON O	CO 19		c .						
SECT MH T	MH 2								

C	R	
at	G	LINC.
je je	9	V SEA
U		

0/27/2022	Ve Energies	aledonia Ash Landfill - Facility #3232	dgerton Contractors	STORM:
TE: 1(ER: V	N:	DR: E	ATE: G
DAT	OWNE	LOCATIO	CONTRACTC	LEACH

CONTRACTOR OF									
REMARKS		Jetted eight times / Heavy ash buildup							
ement chine ed?	z	×				 	 	 	
Ease Ma us	۲		 	 					
PIPE LENGTH	(feet)	240							
PIPE SIZE	(inch)	9							
TON TO MH		MH 1							
SECT MH 3		MH 2							



10/28/2022	We Energies	Caledonia Ash Landfill - Facility #3232	Edgerton Contractors	STORM:
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

REMARKS		Jetted 650' / Three times / Light debris							
ement ichine sed?	z	×		 	 				
Eas Ma u	*					 	 		
PIPE	(feet)	667							
PIPE SIZE	(inch)	6							
TON TO MH		CO 20							
SECT MH 7		MH 1							

at	EALINC.
Ğ	TV SH

10/31/2022	We Energies	Caledonia Ash Landfill - Facility #3232	Edgerton Contractors	STORM:
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

REMARKS	Jetted 550' / Six times / Heavy ash buildup							
asement Machine used? Y N	×							
PIPE LENGTH (feet)						 		
PIPE SIZE (inch)	4							
HW O.	Force Main MH 2							
SECTI MH TE	Force Main MH 1							



11/1/2022	We Energies	Caledonia Ash Landfill - Facility #3232	Edgerton Contractors	STORM:
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

REMARKS		Jetted 550' / Five times / Heavy ash buildup	Removed 4" - 5" of debris	Jetted 550' / Heavy ash buildup						
ment hine	Z Z	×	×	×						
Ease Mao	NSIN Y									
PIPE	(feet)									
PIPE	JILE (inch)	4		4						
ION	C	Force Main MH 2		Force Main MH 1						
		Force Main MH 1	South Tank	Force Main MH 2						

0	R	
+	8	NC.
B	21	SEAL
5		VT

.1/2/2022	Ve Energies	aledonia Ash Landfill - Facility #3232	dgerton Contractors	J STORM:
11	\geq	ü	Ш	[인 ···
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE

REMARKS		ed 800' / Heavy ash buildup							
nent Tine	,;p V	X Jette						 	
Easen Mach	use Y								
PIPE	(feet)								
PIPE	JILE (inch)	4							
ION MU		Force Main MH 1							
SECTI		Force Main MH 2							

H	GRI
ğ	SEAL
5	2L

/3/2022	e Energies	ledonia Ash Landfill - Facility #3232	gerton Contractors	STORM:
11/3,	We E	Caled	Edge	>
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

SECI	TION TO MH	PIPE SIZE	PIPE	Easement Machine used?	REMARKS
Force Main MH 2	Force Main MH 3	(inch) 4	(Teet) 820	× ×	Jetted 800' / Eight times / Heavy ash buildup

C	R	
at	X	LINC.
Ge	2	TV SEA

-/4/2022	e Energies	aledonia Ash Landfill - Facility #3232	lgerton Contractors	STORM:
11/.	We	Cale	Edg	$\overline{\mathbf{b}}$
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

REMARKS	Jetted 250' / Four times / Heavy ash buildup	Jetted 400' / Three times / Heavy ash buildup						
ment chine ed? N	×	×		 		 	 	
Ease Mac us								
PIPE LENGTH (feet)	820	820						
PIPE SIZE (inch)	4	4						
N MH	Force Main MH 2	Force Main MH 2						
SECTIOI MH TO	Force Main MH 3	Force Main MH 3						



11/7/2022	We Energies	Caledonia Ash Landfill - Facility #3232	Edgerton Contractors	STORM:
DATE:	OWNER:	LOCATION:	CONTRACTOR:	LEACHATE:

REMARKS	Jetted 600' / Twice / Heavy ash buildup							
ement chine sed?	z ×					 		
Eas Ma us	-	 	 	 		 		
PIPE	(Teet) 820							
PIPE	(inch)							
ION MH	Force Main MH 2							
SECT MH 7	Force Main MH 3							



22 -	gies	a Ash Landfill - Facility #3232	l Contractors	ORM:
1/8/2022	Ne Energie	Caledonia /	Edgerton C	STO STO
DATE:	OWNER: 1	LOCATION: (CONTRACTOR: E	LEACHATE:

REMARKS									
		Jetted 600' / Heavy ash buildup							
isement lachine used?	z	×	 						
⊢ ≤ B	Y				 	 		 	
PIPE	(feet)	820							
PIPE SIZE	(inch)	4							
HM O.		Force Main MH 2							
SECT MH T		Force Main MH 3							

PICTURES






















