



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

February 2, 2026

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

via electronic submittal

**RE: WE ENERGIES CALEDONIA ASH LANDFILL
LICENSE #3232 - FID# 252108450
NR 506.20(3) 2025 ANNUAL CCR REPORT**

Dear Ms. Fager:

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:

- 2025 fugitive dust control report [per NR 506.20(3)(a)]
- 2025 inspection report [per NR 506.20(3)(b)]
- 2025 groundwater monitoring and corrective action report [per NR 506.20(3)(c)]
- 2025 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 <https://www.we-energies.com/environment/coal-combustion> (the company website). A copy of the annual groundwater monitoring and corrective action report will be placed on the company website in early March 2026.

Please contact me at 414.221-2457 or eric.kovatch@wecenergygroup.com with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Eric P. Kovatch', written in a cursive style.

Eric P. Kovatch
Facility Manager – Senior Environmental Consultant

cc: Mark Peters (WDNR)

Attachments: Appendices A through D (reports listed above)

[File:\2026-02-02 Caledonia CCR NR506 Annual Report for WDNR]

APPENDIX A

**2025 FUGITIVE DUST CONTROL REPORT
[PER NR 506.20(3)(A)]**

**2025 ANNUAL FUGITIVE DUST CONTROL REPORT
CALEDONIA ASH LANDFILL**

December 19, 2025

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

**2025 INSPECTION REPORT
[PER NR 506.20(3)(B)]**

December 19, 2025
Project No. 2103691

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

**Re: 2025 Landfill Inspection Report
Caledonia Ash Landfill
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 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 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. The Site Location Figure, attached in Appendix A, shows the location of the landfill relative to the Oak Creek Power Plant. 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. The east perimeter slope of Cell 6 and Cell 8 was closed in late 2022 into early 2023 and was approved by the WDNR on March 21, 2024.

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 November 26, 2024. This cover letter, Appendix A - Site Location Figure, Appendix B - Annual Inspection Form, and Appendix C – Landfill Inspection Photo Log, constitute the entirety of this report.

Site Inspection

The landfill site inspection was performed by Mr. Andrew Schwoerer, P.G., and Mr. John M. Trast, P.E., D.GE on November 18, 2025. 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 stormwater 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 was approximately 1,688,000 cubic yards of CCR disposed of in the Caledonia Ash Landfill.

Conclusion

On November 18, 2025, 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 to the designated infiltration area, and there was no water observed or ponded within the disposal area. The beneficial use stockpiles and processing area is neat and 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."

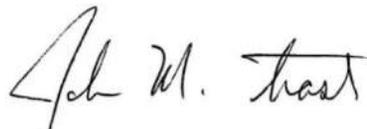
If you have any questions regarding this report, please contact John Trast at 920.455.8299.

Sincerely,

GEI Consultants, Inc.



Andrew J. Schwoerer, P.G.
Project Professional



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

AJS/JMT:amp

B:\Working\WEC ENERGY GROUP\2103691 CCR Landfills Engineering Assistance\05_In_Progress\Caledonia\CCR Annual Inspection\2025 Inspection\01_R2103691_Caledonia Landfill Inspection_2025_DRAFT.docx

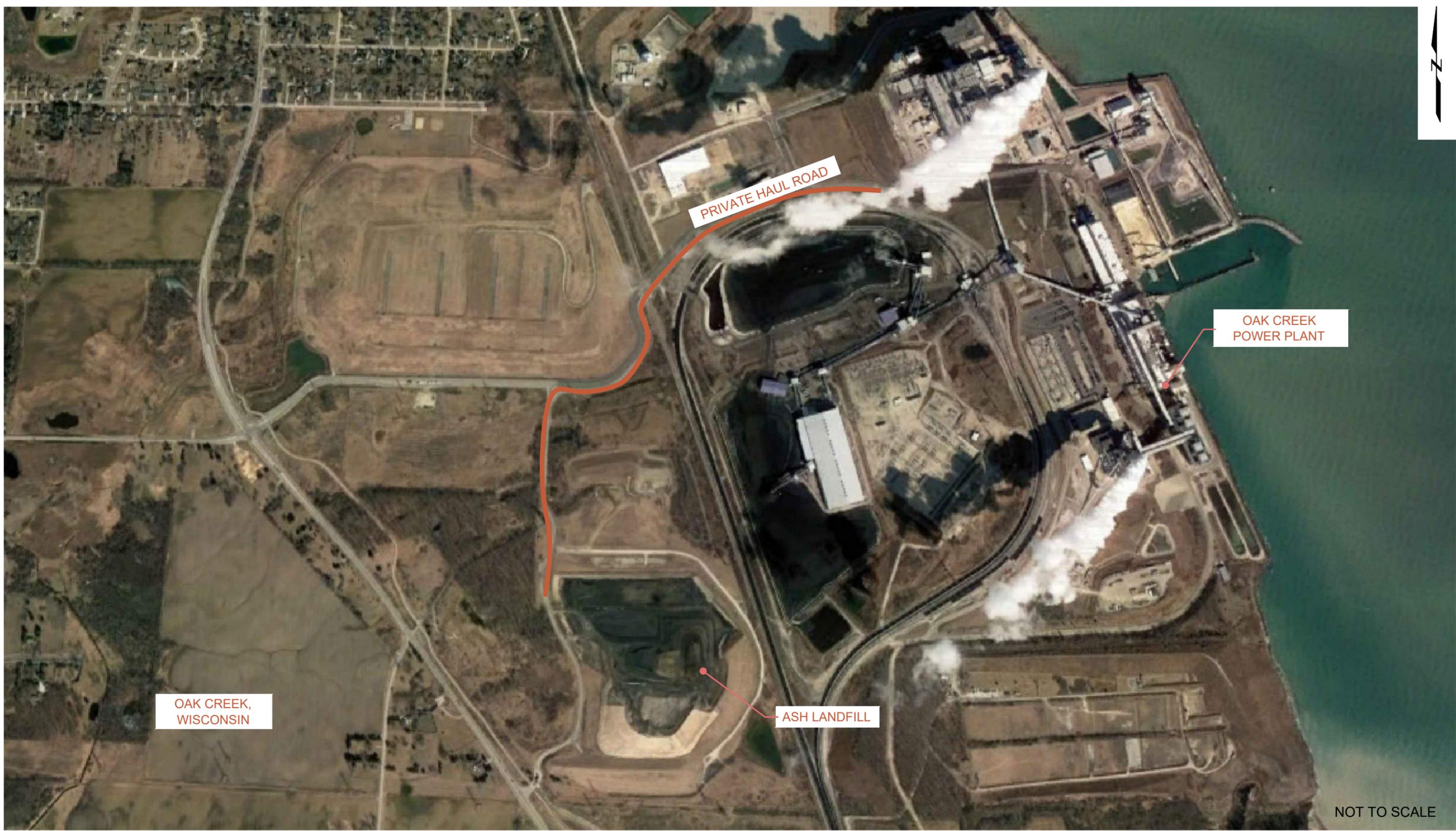
Appendices

- Appendix A Site Location Figure
- Appendix B Annual Inspection Form
- Appendix C Landfill Inspection Photo Log



2025 Landfill Inspection Report
Caledonia Ash Landfill
We Energies
Town of Caledonia, Racine County, Wisconsin
December 19, 2025

Appendix A Site Location Figure



OAK CREEK,
WISCONSIN

PRIVATE HAUL ROAD

OAK CREEK
POWER PLANT

ASH LANDFILL

NOT TO SCALE

Landfill Inspection Report
Caledonia Ash Landfill
Caledonia, Wisconsin
WEC Business Services, LLC
Milwaukee, Wisconsin



CALEDONIA ASH LANDFILL
SITE LOCATION FIGURE
Project 2103691
December 2025
Fig. 1

2025 Landfill Inspection Report
Caledonia Ash Landfill
We Energies
Town of Caledonia, Racine County, Wisconsin
December 19, 2025

Appendix B Annual Inspection Form

CALEDONIA LANDFILL - ANNUAL INSPECTION & CONDITION SUMMARY

INSPECTOR: John M. Trast, P.E., D.GE

INSPECTION DATE/TIME: 11/18/25 10:00 AM

WEATHER:

Temperature: 40° F
 Conditions: Overcast
 Wind: Mild
 Wind Direction: NW
 Precipitation: Mist

LEACHATE COLLECTION SYSTEM:

Load-out Facility:	South Tank	North Tank	Lift Station:
High level alarms:	No	No	Pump #1: Green
Low level alarms:	No	No	Pump #2: Green
Leak alarms:	No	No	Control Panel: Green
Levels:	Half	Half	Inlet Pipes: Exposed
Pump:	Green	Green	
Pad Condition:	Good		

Visual inspection of all leachate manhole inverts performed on Tuesday, November 18, 2025

Note: Pumps alternating between South Tank and North Tank.

WETLAND CONTROL

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

Note: Free of debris/floatingables.

STORMWATER / EROSION CONTROLS / SLOPE STABILITY

Landfill Perimeter Ditches: <input checked="" type="checkbox"/>	
Ditch Check Dams : <input checked="" type="checkbox"/>	
Silt Fence @ Soil Stockpiles : <input type="checkbox"/>	
Diversion Berms, Ditches & Check Dams @ Clay Stockpile : <input checked="" type="checkbox"/>	
Culverts (Inlets & Outlets) : <input checked="" type="checkbox"/>	Stability/Erosion of Covers & Waste Slopes:
	Appear stable & no significant erosion: Yes
Comments : Vegetation appears to be in good condition with no observed erosion.	
<i>Is this a special inspection after a rainfall event of greater than 0.5"?</i> No	
<i>on:</i>	

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

LANDFILL OPERATIONS:

Fugitive Dust Control:	In-Cell Stormwater Management	
Tracking Pads : <input checked="" type="checkbox"/>	Upper Ditch : <input checked="" type="checkbox"/>	
Cattle Guards : <input checked="" type="checkbox"/>	Lower Ditch : <input checked="" type="checkbox"/>	
Wheel Wash : <input checked="" type="checkbox"/>	Down Flume : <input checked="" type="checkbox"/>	
Access Road Clean: <input checked="" type="checkbox"/>	Culverts : <input checked="" type="checkbox"/>	
Landfill Surfaces Groomed: <input checked="" type="checkbox"/>	Reservoirs : <input checked="" type="checkbox"/>	
Airbourne Dust Visible: No	Sediment : Good	
Sign of Recent Dust Deposition: No	Standing Water : No	
Newly placed material on south end of landfill requires grading and compaction.		
Comments: Discussed the status with AW Oakes, they are planning on grading and compacting the newly placed material this afternoon and tomorrow morning.		

Note: Check mark indicates that the features are acceptable.

2025 Landfill Inspection Report
Caledonia Ash Landfill
We Energies
Town of Caledonia, Racine County, Wisconsin
December 19, 2025

Appendix C Landfill Inspection Photo Log

Caledonia Ash Landfill Inspection – Photo Log

Date: 11/18/2025

Project No.: 2103691

Client: We Energies



<i>Photo No. 1 – Looking north at active Cells 8 and 10.</i>	<u>2</u>
<i>Photo No. 2 – Stockpiled CCR inside Cell 2.</i>	<u>2</u>
<i>Photo No. 3 – Leachate collection ditch behind Cell 6 and 8 partial cover.</i>	<u>3</u>
<i>Photo No. 4 – West perimeter berm and stormwater collection ditch, looking north.</i>	<u>3</u>
<i>Photo No. 5 – South perimeter berm looking north.</i>	<u>4</u>
<i>Photo No. 6 – East perimeter berm, looking south.</i>	<u>4</u>
<i>Photo No. 7 – Vegetation on Cell 6 and 8 perimeter slope.</i>	<u>5</u>
<i>Photo No. 8 – Cell 10 active area.</i>	<u>5</u>
<i>Photo No. 9 – Leachate tank control panel.</i>	<u>6</u>
<i>Photo No. 10 – Exterior stormwater ditch north of Cell 10.</i>	<u>6</u>
<i>Photo No. 11 – New topsoil stockpile located north of the landfill.</i>	<u>7</u>
<i>Photo No. 12 – Vegetated soil stockpile located north of the landfill.</i>	<u>7</u>

Caledonia Ash Landfill Inspection – Photo Log

Date: 11/18/2025

Project No.: 2103691

Client: We Energies



Photo No. 1 – Looking north at active Cells 8 and 10.



Photo No. 2 – Stockpiled CCR inside Cell 2.

Caledonia Ash Landfill Inspection – Photo Log

Date: 11/18/2025

Project No.: 2103691

Client: We Energies



Photo No. 3 – Leachate collection ditch behind Cell 6 and 8 partial cover.



Photo No. 4 – West perimeter berm and stormwater collection ditch, looking north.

Caledonia Ash Landfill Inspection – Photo Log

Date: 11/18/2025

Project No.: 2103691

Client: We Energies



Photo No. 5 – South perimeter berm looking north.



Photo No. 6 – East perimeter berm, looking south.

Caledonia Ash Landfill Inspection – Photo Log

Date: 11/18/2025

Project No.: 2103691

Client: We Energies



Photo No. 7 – Vegetation on Cell 6 and 8 perimeter slope.



Photo No. 8 – Cell 10 active area.

Caledonia Ash Landfill Inspection – Photo Log

Date: 11/18/2025

Project No.: 2103691

Client: We Energies



Photo No. 9 – Leachate tank control panel.



Photo No. 10 – Exterior stormwater ditch north of Cell 10.

Caledonia Ash Landfill Inspection – Photo Log

Date: 11/18/2025

Project No.: 2103691

Client: We Energies



Photo No. 11 – New topsoil stockpile located north of the landfill.



Photo No. 12 – Vegetated soil stockpile located north of the landfill.

APPENDIX C

**2025 GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
[PER NR 506.20(3)(C)]**

Prepared for
We Energies

Date
January 31, 2026

Project No.
1940114239

2025 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

CALEDONIA ASH LANDFILL

2025 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CALEDONIA ASH LANDFILL

Project name **Caledonia Ash Landfill**
Project no. **1940114239**
Recipient **We Energies**
Document type **Annual CCR Groundwater Monitoring and Corrective Action Report**
Revision **FINAL**
Date **January 31, 2026**
Prepared by **Kyle J. Schaefer**
Checked by **Eric J. Tlachac, PE**
Approved by **Nathaniel R. Keller, PG**

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Senior Lead Consultant, Site Solutions



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Senior Managing Consultant



Nathaniel R. Keller, PG
Senior Managing Consultant

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2. Monitoring and Corrective Action Program Status	6
3. Key Actions Completed in 2025	7
4. Problems Encountered and Actions to Resolve the Problems	8
5. Key Activities Planned for 2026	9
6. References	10

TABLES (IN TEXT)

Table A 2025 Detection Monitoring Program Summary

TABLES (ATTACHED)

Table 1 Groundwater Elevations

Table 2 Analytical Results – Baseline and CCR Parameters

FIGURES (ATTACHED)

Figure 1 Monitoring Well Location Map

Figure 2 Potentiometric Surface Map, May 29, 2025

Figure 3 Potentiometric Surface Map, November 10, 2025

APPENDICES

Appendix A Laboratory Reports

ACRONYMS AND ABBREVIATIONS

§	Section
40 C.F.R.	Title 40 of the Code of Federal Regulations
ACL	Alternative Concentration Limit
CAL	Caledonia Ash Landfill
CCR	coal combustion residuals
ES	Enforcement Standard
ESAP	Environmental Sampling and Analysis Plan
mg/L	milligrams per liter
NA	not applicable
NRT/OBG	Natural Resource Technology, Inc., an OBG Company
PAL	Preventive Action Limit
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SO ₄	sulfate
TBD	to be determined
TDS	total dissolved solids
WDNR	Wisconsin Department of Natural Resources
Wis. Adm. Code	Wisconsin Administrative Code

EXECUTIVE SUMMARY

On August 1, 2022, the Wisconsin Department of Natural Resources (WDNR) updated Wisconsin Administrative Code (Wis. Adm. Code) NR 500 to include additional requirements for new and existing Coal Combustion Residual (CCR) Landfills in the State of Wisconsin. This report has been prepared to provide the information required by Ch. NR 507.15(3)(m) for Caledonia Ash Landfill (CAL, License #3232) located in Caledonia, Wisconsin.

In accordance with the August 1, 2022 revisions to Ch. NR 500 Wis. Adm. Code, a Plan of Operation Modification (Plan Mod), including an Environmental Sampling and Analysis Plan (ESAP) Addendum, was prepared as required in Ch. NR 514.045 for the above referenced CCR landfill and submitted to WDNR by February 1, 2023 for review and approval.

- WDNR determined in a letter dated April 28, 2023 that the Plan Mod was incomplete and requested additional information. A revised Plan Mod was prepared and submitted on December 13, 2023.
- WDNR determined in a letter dated March 12, 2024 that the revised Plan Mod was incomplete and requested additional information. Following this request, a second revision to the Plan Mod was prepared and submitted on August 23, 2024.
- On November 14, 2024, a notification letter from WDNR provided concurrence on completeness of the Plan Mod. A virtual meeting was held on December 10, 2024, allowing public comment on the Plan Mod. and the public comment period remained open until January 20, 2025. The department received no written comments from the public regarding the proposed Plan Mod.
- On November 17, 2025, WDNR provided a DRAFT Conditional Plan Mod Approval. A 30-day public comment period was held between November 17, 2025, and December 17, 2025, to comply with s. NR 514.045(4), Wis. Adm. Code.
- On December 23, 2025, WDNR provided a final Conditional Plan Mod Approval.

Beginning in 2016, sampling at CAL was completed in accordance with the Detection Monitoring Program requirements specified in Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.94. Following the updates to Ch. NR 500 Wis. Adm. Code in 2022, groundwater sampling has been completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring) since 2023.

Comparisons of the concentrations of detected parameters to Ch. NR 140 groundwater quality standards (Preventive Action Limits [PALs] and Enforcement Standards [ESs]) were not completed in 2025 because these standards for some Detection Monitoring Parameters are calculated based upon site-specific baseline monitoring data (e.g., Field Specific Conductance, Total Alkalinity, Total Hardness, Total Calcium, and Total Dissolved Solids). Values for these standards were proposed in the Plan Mod only recently approved. Alternative Concentration Limits (ACLs) for some Detection Monitoring parameters (Total Boron, Total Fluoride, and Total Sulfate) were also proposed in the Plan Mod recently approved.

No changes were made to the monitoring system in 2025 (no wells were installed or decommissioned).

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 Ch. NR 507.15(3)(m) at CAL (License #3232) located in Caledonia, WI.

In accordance with Ch. NR 507.15(3)(m), the owner or operator of a CCR landfill 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 landfill (**Section 2**), summarizes key actions completed (**Section 3**), describes any problems encountered, discusses actions to resolve the problems (**Section 4**), and projects key activities for the upcoming year (**Section 5**). 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 landfill and all upgradient and downgradient monitoring wells, including the well identification numbers, that are part of the groundwater monitoring for the CCR landfill (**Figure 1**).
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 (**Section 3**).
3. In addition to all the monitoring data obtained under Ch. NR 507.15(3)(L) (**Tables 1 and 2**), a summary including the number of groundwater samples that were collected for analysis for each upgradient and downgradient well, the dates the samples were collected, and whether the sample was required by Detection Monitoring or Assessment Monitoring (**Section 3 and Table A**).
4. A narrative discussion of any transition between monitoring including the date and circumstances for transitioning from Detection Monitoring to Assessment Monitoring (**Section 2**) in addition to identifying any constituents detected above Ch. NR 140 standards (**Table A**).
5. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action for the CCR landfill (**Executive Summary**). At a minimum, the summary shall include all of the following:
 - i. At the start of the current annual reporting period, whether the CCR landfill was operating under Detection Monitoring or Assessment Monitoring.
 - ii. At the end of the current annual reporting period, whether the CCR landfill was operating under Detection Monitoring or Assessment Monitoring.
 - iii. If it was determined by the owner or operator that there was a groundwater quality exceedance under Ch. NR 140 for one or more constituents listed under Ch. NR 507 Appendix I for CCR wells, a listing of those constituents, the names of the monitoring wells associated with the exceedances, and the date when the Assessment Monitoring was initiated for the CCR landfill.

- iv. If corrective action measures were required, the date when the assessment of corrective measures was initiated for the CCR landfill, the date when the public informational hearing under Ch. NR 508.06(3)(e) was held for the discussion of the results of the remedial action options report, and the date when the assessment of corrective measures was completed.
- v. If a remedy was required under Ch. NR 508 during the annual reporting period, the date of remedy selection, and whether remedial activities were initiated or are ongoing during the annual reporting period.

This report provides the required information for CAL for calendar year 2025.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

As required in Ch. NR 514.045, a Plan Mod, including an ESAP Addendum, was prepared for CAL to fulfill additional requirements related to the August 1, 2022 revisions to Ch. NR 500 and submitted to WDNR by February 1, 2023 for review and approval.

- WDNR determined in a letter dated April 28, 2023 that the Plan Mod was incomplete and requested additional information. A revised Plan Mod was prepared and submitted on December 13, 2023.
- WDNR determined in a letter dated March 12, 2024 that the revised Plan Mod was incomplete and requested additional information. Following this request a second revision to the Plan Mod was prepared and submitted on August 23, 2024.
- On November 14, 2024, a notification letter from WDNR provided concurrence on completeness of the Plan Mod. A virtual meeting was held on December 10, 2024, allowing public comment on the Plan Mod. and the public comment period remained open until January 20, 2025. The department received no written comments from the public regarding the proposed Plan Mod.
- On November 17, 2025, WDNR provided a DRAFT Conditional Plan Mod Approval letter. A 30-day public comment period was held between November 17, 2025, and December 17, 2025, to comply with s. NR 514.045(4), Wis. Adm. Code.
- On December 23, 2025, WDNR provided a final Conditional Plan Mod Approval.

Comparisons of the concentrations of detected parameters to Ch. NR 140 groundwater quality standards (Preventive Action Limits [PALs] and Enforcement Standards [ESs]) were not completed in 2025 because these standards for some Detection Monitoring Parameters are calculated based upon site-specific baseline monitoring data (e.g., Field Specific Conductance, Total Alkalinity, Total Hardness, Total Calcium, and Total Dissolved Solids). Values for these standards were proposed in the Plan Mod and only recently approved. Alternative Concentration Limits (ACLs) for some Detection Monitoring parameters (Total Boron, Total Fluoride, and Total Sulfate) were also proposed in the Plan Mod recently approved. Accordingly, no changes have occurred to the monitoring program status in calendar year 2025.

Beginning in 2016, sampling at CAL was completed in accordance with the Detection Monitoring Program requirements specified in Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.94. Following updates to the Wis. Adm. Code in 2022, groundwater sampling has been completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring).

3. KEY ACTIONS COMPLETED IN 2025

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 2025.

In general, one groundwater sample was collected from each background and downgradient well during each monitoring event. All samples were collected and analyzed in accordance with the *Sampling and Analysis Plan (SAP), Revision 1, Caledonia Ash Landfill* (Ramboll, 2023) submitted as Appendix B of the ESAP Addendum. Potentiometric surface maps for both monitoring events in 2025 are included in **Figures 2 and 3**. Average linear groundwater velocity was calculated for each monitoring event as noted in the tabular summary provided with each potentiometric surface map. Water level data, collected from background and downgradient monitoring wells, are included in **Table 1**. All monitoring data and analytical results obtained under Ch. NR 507.15(3)(L) in 2025 are presented in **Table 2**. Laboratory reports for all 2025 monitoring events are included in **Appendix A**. Results for analysis of additional samples required by Ch. NR 507 are included in some reports because they were collected during the same sampling events, but are not summarized in this report.

In 2025, additional sampling was completed to establish baseline groundwater quality for Radium-226 and -228 combined at wells W49 and W50.

In 2025, groundwater sampling was completed in accordance with Ch. NR 507.15(3)(L).

Table A. 2025 Detection Monitoring Program Summary

Sampling Date	Purpose	Analytical Data Receipt Date	Parameters Analyzed
February 27, 2025	Baseline Sampling	March 28, 2025	<u>Wells W49 & W50 (Radium)</u>
May 29, 2025	Detection Monitoring	July 24, 2025	Ch. NR 507 App A Tables 1A
November 11-12, 2025	Detection Monitoring	January 8, 2025	Ch. NR 507 App A Table 1A
	Baseline Sampling	January 8, 2025	<u>Wells W49 & W50 (Radium)</u>

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the Groundwater Monitoring Program during 2025. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2026

The following key activities are planned for 2026:

- Detection Monitoring in accordance with Ch. NR 507.15(3)(L) with semi-annual sampling scheduled for the second and fourth quarters of 2026.
- Complete evaluation of groundwater analytical data against Ch. NR 140 standards including Preventive Action Limits, Enforcement Standards, and/or ACLs, approved by WDNR.
- A notification will be provided to WDNR within 90 days of the end of the sampling period when results indicate concentrations have attained or exceeded groundwater standards in accordance with Ch. NR 507.30. The notification shall specify the parameters that have attained or exceeded standards, the wells at which the standards (PAL, ES, or ACL) were attained or exceeded, and provide a preliminary analysis of the cause and significance of each concentration in accordance with Chs. NR 140.24(1)(a) or 140.26(1)(a). The notification shall also include the intent to either begin assessment monitoring or determine whether a false exceedance occurred.
- As described in Chs. NR 508.06(1)(c) and NR 507.28(3), if a groundwater standard exceedance is detected in a CCR well, a demonstration may be completed and submitted within 60 days of detecting the exceedance to indicate if a source other than CAL is the cause or the exceedance is due to an error.
 - If WDNR concurs with the false exceedance demonstration within 30 days of receipt, Detection Monitoring will continue.
 - If WDNR does not concur within 30 days, an Assessment Monitoring Program in accordance with Ch. NR 508.06(2) will be initiated.

6. REFERENCES

Ramboll Americas Engineering Solutions, Inc., 2023, *Sampling and Analysis Plan - Revision 1, Caledonia Ash Landfill, Caledonia, Wisconsin*. December 12, 2023.

TABLES

**TABLE 1
GROUNDWATER ELEVATIONS**

2025 CCR 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)
W46D	Background (Upgradient/Side-gradient)	42.83840	-87.84685	5/29/2025	655.91
				11/10/2025	654.18
W48	Background (Upgradient)	42.83564	-87.84441	5/29/2025	656.98
				11/10/2025	655.29
W08D	Compliance (Downgradient)	42.83621	-87.83965	5/29/2025	655.51
				11/10/2025	654.14
W09D	Compliance (Downgradient)	42.83892	-87.83924	5/29/2025	654.96
				11/10/2025	653.13
W10D	Compliance (Downgradient)	42.83985	-87.84015	5/29/2025	654.25
				11/10/2025	652.62
W49	Compliance (Downgradient)	42.83987	-87.84187	5/29/2025	654.66
				11/10/2025	652.98
W50	Compliance (Downgradient)	42.83751	-87.83865	5/29/2025	654.97
				11/10/2025	653.44

Notes:

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988

Caledonia
Table 2. Analytical Results - Baseline and CCR Parameters

Date Range: 02/27/2025 to 12/31/2025

Well Id	Date Sampled	Lab Id	Alkalinity, lab, mg/L	Boron, total, mg/L	Calcium, total, mg/L	Chloride, total, mg/L	Fluoride, total, mg/L	Hardness, tot, mg/L
W08D	5/29/2025	AE79042	130.0	0.469	49.2	11.0	0.43	215.00
	11/11/2025	AE82964	163.0	0.442	49.4	12.1	1.20	215.00
W09D	5/29/2025	AE79043	120.0	0.432	19.2	4.1	0.50	91.10
	11/11/2025	AE82965	142.0	0.472	18.6	4.6	1.30	84.30
W10D	5/29/2025	AE79044	120.0	0.441	21.0	4.0	0.44	86.40
	11/11/2025	AE82966	139.0	0.437	20.7	4.2	1.20	85.10
W46D	5/29/2025	AE79045	140.0	0.364	24.7	5.6	0.31	124.00
	11/12/2025	AE82967	156.0	0.376	24.4	5.4	1.10	122.00
W48	5/29/2025	AE79046	210.0	0.380	26.2	3.8	0.07	136.00
	11/12/2025	AE82968	232.0	0.394	26.2	4.0	0.94	136.00
W49	5/29/2025	AE79047	110.0	0.465	16.1	4.3	0.55	68.80
	11/12/2025	AE82969	122.0	0.482	16.2	4.7	1.40	69.50
W50	5/29/2025	AE79048	130.0	0.535	28.1	5.0	0.26	114.00
	11/12/2025	AE82970	155.0	0.541	25.5	6.0	1.20	104.00

Caledonia
Table 2. Analytical Results - Baseline and CCR Parameters

Date Range: 02/27/2025 to 12/31/2025

Well Id	Date Sampled	Lab Id	pH (Field), SU	Radium 226 + radium 228,, pCi/L	Sulfate, total, mg/L	TDS, mg/L
W08D	5/29/2025	AE79042	7.7		210.0	464
	11/11/2025	AE82964	7.5		212.0	404
W09D	5/29/2025	AE79043	8.3		37.0	210
	11/11/2025	AE82965	7.7		29.0	202
W10D	5/29/2025	AE79044	8.1		42.0	228
	11/11/2025	AE82966	7.8		42.4	244
W46D	5/29/2025	AE79045	7.6		35.0	222
	11/12/2025	AE82967	7.3		32.8	214
W48	5/29/2025	AE79046	8.1		0.9	206
	11/12/2025	AE82968	7.7		<0.9	226
W49	2/27/2025	AE77287r		0.744		
	5/29/2025	AE79047	8.1		51.0	206
	11/12/2025	AE82969	7.1		52.7	228
W50		AE82969R		<0.765		
	2/27/2025	AE77286r		0.715		
	5/29/2025	AE79048	7.8		79.0	306
	11/12/2025	AE82970	7.8		82.5	246
		AE82970R		<0.551		

Notes:

Exceedance of NR 140 Groundwater Quality Standard.
ACLs for these parameters were requested in the Plan of
Operation Modification required by Ch. NR 514.045.

Caledonia
Table 2. Analytical Results - Baseline and CCR Parameters

Date Range: 11/01/2024 to 12/31/2025

Well Id	Date Sampled	Lab Id	pH (Field), SU	Radium 226 + radium 228,, pCi/L	Sulfate, total, mg/L	TDS, mg/L
W08D	11/6/2024	AE75298	7.7		208.0	890
	5/29/2025	AE79042	7.7		210.0	464
	11/11/2025	AE82964	7.5		212.0	404
W09D	11/6/2024	AE75299	8.3		39.2	260
	5/29/2025	AE79043	8.3		37.0	210
	11/11/2025	AE82965	7.7		29.0	202
W10D	11/6/2024	AE75300	8.1		42.7	480
	5/29/2025	AE79044	8.1		42.0	228
	11/11/2025	AE82966	7.8		42.4	244
W46D	11/6/2024	AE75301	7.7		34.8	520
	5/29/2025	AE79045	7.6		35.0	222
	11/12/2025	AE82967	7.3		32.8	214
W48	11/6/2024	AE75302	8.1		<0.4	440
	5/29/2025	AE79046	8.1		0.9	206
	11/12/2025	AE82968	7.7		<0.9	226

Caledonia
Table 2. Analytical Results - Baseline and CCR Parameters

Date Range: 11/01/2024 to 12/31/2025

			pH (Field), SU	Radium 226 + radium 228,, pCi/L	Sulfate, total, mg/L	TDS, mg/L
W49	11/6/2024	AE75303	8.0		51.9	830
	2/27/2025	AE77287r		0.744		
	5/29/2025	AE79047	8.1		51.0	206
	11/12/2025	AE82969	7.1		52.7	228
		AE82969R		<0.765		
W50	11/6/2024	AE75304	7.7		78.4	1200
	2/27/2025	AE77286r		0.715		
	5/29/2025	AE79048	7.8		79.0	306
	11/12/2025	AE82970	7.8		82.5	246
		AE82970R		<0.551		

FIGURES



- CCR RULE BACKGROUND MONITORING WELL LOCATION
- CCR RULE DOWNGRADIENT MONITORING WELL LOCATION
- CCR RULE UPGRADIENT MONITORING WELL LOCATION
- UNIT BOUNDARY

NOTES
IMAGERY DATE = 5/1/2022



MONITORING WELL LOCATION MAP

2025 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

CALEDONIA ASH LANDFILL CALEDONIA POWER PLANT CALEDONIA, WISCONSIN

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- CCR RULE BACKGROUND MONITORING WELL LOCATION
- CCR RULE DOWNGRADE MONITORING WELL LOCATION
- CCR RULE UPGRADIENT MONITORING WELL LOCATION
- ▭ UNIT BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION

NOTES
 V_{gw} = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY
 IMAGERY DATE = 3/11/2024



**POTENTIOMETRIC SURFACE MAP
 MAY 29, 2025**

**2025 CCR ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT
 CALEDONIA ASH LANDFILL
 CALEDONIA POWER PLANT
 CALEDONIA, WISCONSIN**

FIGURE 2

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC



GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS
CALEDONIA ASH LANDFILL
CALEDONIA, WISCONSIN

May 2025		$V = K i / n_e$	V = Groundwater Velocity K = Hydraulic Conductivity i = Hydraulic Gradient (unitless value) n_e = Effective Porosity
UPPERMOST AQUIFER			
Contours	656 to 655	Northeast Across the Landfill	Elevation Change (ft) Distance Change (ft)
K =	1.04E+03 ft/yr	Geometric mean for Landfill	
i =	0.001	between contours identified above	
n_e =	25 %		1 / 700 0.001
V =	$\frac{1.04E+03 * 1.43E-03}{0.25}$		
V =	6 feet/year		

[O: KJS 6/27/2025, C:NRK 1/22/2026]



- CCR RULE BACKGROUND MONITORING WELL LOCATION
- CCR RULE DOWNGRAIDENT MONITORING WELL LOCATION
- CCR RULE UPGRADIENT MONITORING WELL LOCATION
- ▭ UNIT BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION

NOTES
 V_{gw} = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY
 IMAGERY DATE = 3/11/2024

0 150 300
 Feet

**POTENTIOMETRIC SURFACE MAP
 NOVEMBER 10, 2025**

**2025 CCR ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT
 CALEDONIA ASH LANDFILL
 CALEDONIA POWER PLANT
 CALEDONIA, WISCONSIN**

FIGURE 3



**GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS
 CALEDONIA ASH LANDFILL
 CALEDONIA, WISCONSIN**

November 2025		$V = K i / n_e$	V = Groundwater Velocity K = Hydraulic Conductivity i = Hydraulic Gradient (unitless value) n _e = Effective Porosity
UPPERMOST AQUIFER			
Contours	655 to 654	Northeast Across the Landfill	Elevation Change (ft)
K =	1.04E+03 ft/yr	Geometric mean for Landfill	Distance Change (ft)
i =	0.001	between contours identified above	1 / 812
n _e =	25 %		0.001
V =	$\frac{1.04E+03 * 1.23E-03}{0.25}$		
V =	5 feet/year		

[O: KJS 11/14/2025, C: NRK 1/22/2026]

APPENDICES

APPENDIX A
LABORATORY REPORTS

To: Eric Kovatch
 PSB Annex A231

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



Report Date: Wednesday, March 5, 2025

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

Sample Description: **W08D Caledonia Landfill Semi Annual Sample**
 Sample ID: AE77281 Sample Collection Date/Time: 02/27/2025 11:09
 Sample Received: 02/27/2025 Sample Collector: NATE DUDA

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	44.43	0.05	feet		1		H2OD	2/27/25	N DUDA
Field Temperature	8.8	0.1	Degrees t		1		TEMP	2/27/25	N DUDA
Field Conductivity	701	0	umhos		1		FCOND25	2/27/25	N DUDA
Field pH	7.5	0.1	Units	0.1	1		FIELDPH	2/27/25	N DUDA
Total Dissolved Solids	706	20	mg/L		1		Std Mtd 2540 C	3/4/25	SAA

Sample Comments:

Sample Description: **W09D Caledonia Landfill Semi Annual Sample**
 Sample ID: AE77282 Sample Collection Date/Time: 02/27/2025 10:31
 Sample Received: 02/27/2025 Sample Collector: NATE DUDA

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	54.92	0.05	feet		1		H2OD	2/27/25	N DUDA
Field Temperature	9.1	0.1	Degrees t		1		TEMP	2/27/25	N DUDA
Field Conductivity	342	0	umhos		1		FCOND25	2/27/25	N DUDA
Field pH	8.1	0.1	Units	0.1	1		FIELDPH	2/27/25	N DUDA
Total Dissolved Solids	250	20	mg/L		1		Std Mtd 2540 C	3/4/25	SAA

Sample Comments:

Sample Description: **W10D Caledonia Landfill Semi Annual Sample**
 Sample ID: AE77283 Sample Collection Date/Time: 02/27/2025 09:45
 Sample Received: 02/27/2025 Sample Collector: NATE DUDA

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	50.06	0.05	feet		1		H2OD	2/27/25	N DUDA
Field Temperature	9.8	0.1	Degrees t		1		TEMP	2/27/25	N DUDA
Field Conductivity	343	0	umhos		1		FCOND25	2/27/25	N DUDA
Field pH	8.1	0.1	Units	0.1	1		FIELDPH	2/27/25	N DUDA

Report Date: Wednesday, March 5, 2025

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

Sample Description: **W10D Caledonia Landfill Semi Annual Sample**
Sample ID: AE77283 Sample Collection Date/Time: 02/27/2025 09:45
Sample Received: 02/27/2025 Sample Collector: NATE DUDA

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Dissolved Solids	220	20	mg/L		1		Std Mtd 2540 C	3/4/25	SAA

Sample Comments:

Sample Description: **W46D Caledonia Landfill Semi Annual Sample**
Sample ID: AE77284 Sample Collection Date/Time: 02/27/2025 08:20
Sample Received: 02/27/2025 Sample Collector: NATE DUDA

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	46.85	0.05	feet		1		H2OD	2/27/25	N DUDA
Field Temperature	9.8	0.1	Degrees t		1		TEMP	2/27/25	N DUDA
Field Conductivity	369	0	umhos		1		FCOND25	2/27/25	N DUDA
Field pH	7.4	0.1	Units	0.1	1		FIELDPH	2/27/25	N DUDA
Total Dissolved Solids	218	20	mg/L		1		Std Mtd 2540 C	3/4/25	SAA

Sample Comments:

Sample Description: **W48 Caledonia Landfill Semi Annual Sample**
Sample ID: AE77285 Sample Collection Date/Time: 02/27/2025 08:59
Sample Received: 02/27/2025 Sample Collector: NATE DUDA

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	60.45	0.05	feet		1		H2OD	2/27/25	N DUDA
Field Temperature	8.9	0.1	Degrees t		1		TEMP	2/27/25	N DUDA
Field Conductivity	415	0	umhos		1		FCOND25	2/27/25	N DUDA
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	2/27/25	N DUDA
Total Dissolved Solids	386	20	mg/L		1		Std Mtd 2540 C	3/4/25	SAA

Sample Comments:

Report Date: Wednesday, March 5, 2025

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

Sample Description: **W50 Caledonia Landfill Semi Annual Sample**
Sample ID: AE77286 Sample Collection Date/Time: 02/27/2025 11:55
Sample Received: 02/27/2025 Sample Collector: NATE DUDA

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	41.27	0.05	feet		1		H2OD	2/27/25	N DUDA
Field Temperature	9.1	0.1	Degrees t		1		TEMP	2/27/25	N DUDA
Field Conductivity	453	0	umhos		1		FCOND25	2/27/25	N DUDA
Field pH	7.6	0.1	Units	0.1	1		FIELDPH	2/27/25	N DUDA
Total Dissolved Solids	272	20	mg/L		1		Std Mtd 2540 C	3/4/25	SAA
Sendout Analysis	PENDING				1			12/30/99	

Sample Comments:

Sample Description: **W49 Caledonia Landfill Semi Annual Sample**
Sample ID: AE77287 Sample Collection Date/Time: 02/27/2025 12:56
Sample Received: 02/27/2025 Sample Collector: NATE DUDA

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	64.47	0.05	feet		1		H2OD	2/27/25	N DUDA
Field Temperature	9.3	0.1	Degrees t		1		TEMP	2/27/25	N DUDA
Field Conductivity	341	0	umhos		1		FCOND25	2/27/25	N DUDA
Field pH	8.1	0.1	Units	0.1	1		FIELDPH	2/27/25	N DUDA
Total Dissolved Solids	230	20	mg/L		1		Std Mtd 2540 C	3/4/25	SAA
Sendout Analysis	PENDING				1			12/30/99	

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 Lab Services: 414-221-4595



March 28, 2025

Christina Walker
WE Energies
333 W Everette St
Milwaukee, WI 53203

RE: Project: Q-6005-001005 CALEDONIA LANDFI
Pace Project No.: 40291466

Dear Christina Walker:

Enclosed are the analytical results for sample(s) received by the laboratory on March 01, 2025. 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 - Greensburg

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: WE Energies Lab Reports, WE Energies
MARK METCALF, WEC Business Services, LLC.



REPORT OF LABORATORY ANALYSIS

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

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40291466

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Q-6005-001005 CALEDONIA LANDFI
Pace Project No.: 40291466

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40291466001	W50 (AE77286)	Water	02/27/25 00:00	03/01/25 08:55
40291466002	W49 (AE77287)	Water	02/27/25 00:00	03/01/25 08:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Q-6005-001005 CALEDONIA LANDFI
 Pace Project No.: 40291466

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40291466001	W50 (AE77286)	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
40291466002	W49 (AE77287)	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40291466

Sample: W50 (AE77286)		Lab ID: 40291466001	Collected: 02/27/25 00:00	Received: 03/01/25 08:55	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.195 ± 0.304 (0.734) C:NA T:91%	pCi/L	03/23/25 16:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.715 ± 0.436 (0.812) C:72% T:91%	pCi/L	03/24/25 14:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.715 ± 0.740 (1.55)	pCi/L	03/28/25 10:54	7440-14-4	

Sample: W49 (AE77287)		Lab ID: 40291466002	Collected: 02/27/25 00:00	Received: 03/01/25 08:55	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.293 ± 0.384 (0.884) C:NA T:87%	pCi/L	03/23/25 16:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.744 ± 0.411 (0.737) C:69% T:96%	pCi/L	03/24/25 14:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.744 ± 0.795 (1.62)	pCi/L	03/28/25 10:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40291466

QC Batch: 730991

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40291466001, 40291466002

METHOD BLANK: 3558568

Matrix: Water

Associated Lab Samples: 40291466001, 40291466002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.357 ± 0.359 (0.566) C:NA T:94%	pCi/L	03/23/25 16:31	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40291466

QC Batch: 730994

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40291466001, 40291466002

METHOD BLANK: 3558577

Matrix: Water

Associated Lab Samples: 40291466001, 40291466002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.829 ± 0.447 (0.778) C:77% T:70%	pCi/L	03/27/25 10:29	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40291466

DEFINITIONS

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Q-6005-001005 CALEDONIA LANDFI

Pace Project No.: 40291466

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40291466001	W50 (AE77286)	EPA 903.1	730991		
40291466002	W49 (AE77287)	EPA 903.1	730991		
40291466001	W50 (AE77286)	EPA 904.0	730994		
40291466002	W49 (AE77287)	EPA 904.0	730994		
40291466001	W50 (AE77286)	Total Radium Calculation	735956		
40291466002	W49 (AE77287)	Total Radium Calculation	735956		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Client Name: Wisconsin Public Service Project #: _____
 Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____
 Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used SR - 145 Type of Ice: Wet Blue Dry None Meltwater Only
 Cooler Temperature Uncorr: 0.5 / Corr: 0.0
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no

WO#: **40291466**

 40291466

Person examining contents:
 Date: 8/17/2022 Initials: MNR
 Labeled By Initials: KKS

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>Time on COC does not match time listed on label. Sample point del time on label is 12:56. Both times on COC listed as 00:00.</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir
 Page 2 of 2

To: Eric Kovatch
 PSB Annex A231

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



Report Date: Thursday, July 24, 2025

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

Sample Description: **W08D** **Caledonia CCR Well Sample**
 Sample ID: AE79042 Sample Collection Date/Time: 05/29/2025 12:48
 Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	42.77	0.05	feet		1		H2OD	5/29/25	RAMBOLL
Field Temperature	13	0.1	Degrees t		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	741	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	7.7	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Total Boron	469	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Total Calcium	49200	1140	ug/L	5000	10		EPA 200.7	6/4/25	20
Total Hardness as CaCO3 ug/L	215000	10000	ug/L	54000	10		Std Mtd 2340B	6/4/25	20
Total Dissolved Solids	464	20	mg/L		1		Std Mtd 2540 C	6/3/25	SAA
Total Alkalinity as CaCO3	130	20	mg/L		1		SM 2320 B-1997	6/5/25	AEU
Total Fluoride	0.43	0.012	mg/L	0.039	1		EPA 300.0	6/18/25	AEU
Total Chloride	11	0.059	mg/L	0.198	1		EPA 300.0	6/18/25	AEU
Total Sulfate	210	0.24	mg/L	0.78	1		EPA 300.0	6/18/25	AEU

Sample Comments:

Sample Description: **W09D** **Caledonia CCR Well Sample**
 Sample ID: AE79043 Sample Collection Date/Time: 05/29/2025 12:04
 Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	52.39	0.05	feet		1		H2OD	5/29/25	RAMBOLL
Field Temperature	13	0.1	Degrees t		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	357	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Total Boron	432	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Total Calcium	19200	114	ug/L	500	1		EPA 200.7	6/4/25	20
Total Hardness as CaCO3 ug/L	91100	1000	ug/L	5400	1		Std Mtd 2340B	6/4/25	20
Total Dissolved Solids	210	20	mg/L		1		Std Mtd 2540 C	6/3/25	SAA
Total Alkalinity as CaCO3	120	20	mg/L		1		SM 2320 B-1997	6/5/25	AEU
Total Fluoride	0.50	0.012	mg/L	0.039	1		EPA 300.0	6/18/25	AEU
Total Chloride	4.1	0.059	mg/L	0.198	1		EPA 300.0	6/18/25	AEU
Total Sulfate	37	0.24	mg/L	0.78	1		EPA 300.0	6/18/25	AEU

Report Date: Thursday, July 24, 2025

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

Sample Comments:

Sample Description: W10D Caledonia CCR Well Sample
Sample ID: AE79044 Sample Collection Date/Time: 05/29/2025 13:32
Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	48.85	0.05	feet		1		H2OD	5/29/25	RAMBOLL
Field Temperature	12	0.1	Degrees t		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	361	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	8.1	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Total Boron	441	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Total Calcium	21000	114	ug/L	500	1		EPA 200.7	6/4/25	20
Total Hardness as CaCO3 ug/L	86400	1000	ug/L	5400	1		Std Mtd 2340B	6/4/25	20
Total Dissolved Solids	228	20	mg/L		1		Std Mtd 2540 C	6/3/25	SAA
Total Alkalinity as CaCO3	120	20	mg/L		1		SM 2320 B-1997	6/5/25	AEU
Total Fluoride	0.44	0.012	mg/L	0.039	1		EPA 300.0	6/18/25	AEU
Total Chloride	4.0	0.059	mg/L	0.198	1		EPA 300.0	6/18/25	AEU
Total Sulfate	42	0.24	mg/L	0.78	1		EPA 300.0	6/18/25	AEU

Sample Comments:

Sample Description: W46D Caledonia CCR Well Sample
Sample ID: AE79045 Sample Collection Date/Time: 05/29/2025 10:04
Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	45.35	0.05	feet		1		H2OD	5/29/25	RAMBOLL
Field Temperature	12	0.1	Degrees t		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	388	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	7.6	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Total Boron	364	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Total Calcium	24700	114	ug/L	500	1		EPA 200.7	6/4/25	20
Total Hardness as CaCO3 ug/L	124000	1000	ug/L	5400	1		Std Mtd 2340B	6/4/25	20
Total Dissolved Solids	222	20	mg/L		1		Std Mtd 2540 C	6/3/25	SAA
Total Alkalinity as CaCO3	140	20	mg/L		1		SM 2320 B-1997	6/5/25	AEU
Total Fluoride	0.31	0.012	mg/L	0.039	1		EPA 300.0	6/18/25	AEU
Total Chloride	5.6	0.059	mg/L	0.198	1		EPA 300.0	6/18/25	AEU
Total Sulfate	35	0.24	mg/L	0.78	1		EPA 300.0	6/18/25	AEU

Report Date: Thursday, July 24, 2025

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

Sample Comments:

Sample Description: W48 Caledonia CCR Well Sample
Sample ID: AE79046 Sample Collection Date/Time: 05/29/2025 10:54
Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	58.90	0.05	feet		1		H2OD	5/29/25	RAMBOLL
Field Temperature	12	0.1	Degrees t		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	403	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	8.1	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Total Boron	380	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Total Calcium	26200	114	ug/L	500	1		EPA 200.7	6/4/25	20
Total Hardness as CaCO3 ug/L	136000	1000	ug/L	5400	1		Std Mtd 2340B	6/4/25	20
Total Dissolved Solids	206	20	mg/L		1		Std Mtd 2540 C	6/3/25	SAA
Total Alkalinity as CaCO3	210	20	mg/L		1		SM 2320 B-1997	6/5/25	AEU
Total Fluoride	0.065	0.012	mg/L	0.039	1		EPA 300.0	6/18/25	AEU
Total Chloride	3.8	0.059	mg/L	0.198	1		EPA 300.0	6/18/25	AEU
Total Sulfate	0.93	0.24	mg/L	0.78	1		EPA 300.0	6/18/25	AEU

Sample Comments:

Sample Description: W49 Caledonia CCR Well Sample
Sample ID: AE79047 Sample Collection Date/Time: 05/29/2025 14:42
Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	62.83	0.05	feet		1		H2OD	5/29/25	RAMBOLL
Field Temperature	12	0.1	Degrees t		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	262	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	8.1	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Total Boron	465	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Total Calcium	16100	114	ug/L	500	1		EPA 200.7	6/4/25	20
Total Hardness as CaCO3 ug/L	68800	1000	ug/L	5400	1		Std Mtd 2340B	6/4/25	20
Total Dissolved Solids	206	20	mg/L		1		Std Mtd 2540 C	6/3/25	SAA
Total Alkalinity as CaCO3	110	20	mg/L		1		SM 2320 B-1997	6/5/25	AEU
Total Fluoride	0.55	0.012	mg/L	0.039	1		EPA 300.0	6/18/25	AEU
Total Chloride	4.3	0.059	mg/L	0.198	1		EPA 300.0	6/18/25	AEU
Total Sulfate	51	0.24	mg/L	0.78	1		EPA 300.0	6/18/25	AEU

Report Date: Thursday, July 24, 2025

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

Sample Comments:

Sample Description: W50 Caledonia CCR Well Sample
Sample ID: AE79048 Sample Collection Date/Time: 05/29/2025 15:33
Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	39.71	0.05	feet		1		H2OD	5/29/25	RAMBOLL
Field Temperature	12	0.1	Degrees t		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	367	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Total Boron	535	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Total Calcium	28100	114	ug/L	500	1		EPA 200.7	6/4/25	20
Total Hardness as CaCO3 ug/L	114000	1000	ug/L	5400	1		Std Mtd 2340B	6/4/25	20
Total Dissolved Solids	306	20	mg/L		1		Std Mtd 2540 C	6/3/25	SAA
Total Alkalinity as CaCO3	130	20	mg/L		1		SM 2320 B-1997	6/5/25	AEU
Total Fluoride	0.26	0.012	mg/L	0.039	1		EPA 300.0	6/18/25	AEU
Total Chloride	5.0	0.059	mg/L	0.198	1		EPA 300.0	6/18/25	AEU
Total Sulfate	79	0.24	mg/L	0.78	1		EPA 300.0	6/18/25	AEU

Sample Comments:

Sample Description: QC 1 Caledonia CCR Well Sample
Sample ID: AE79049 Sample Collection Date/Time: 05/29/2025 10:59
Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	389	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Total Calcium	26600	114	ug/L	500	1		EPA 200.7	6/4/25	20
Total Hardness as CaCO3 ug/L	139000	1000	ug/L	5400	1		Std Mtd 2340B	6/4/25	20
Total Dissolved Solids	252	20	mg/L		1		Std Mtd 2540 C	6/3/25	SAA
Total Alkalinity as CaCO3	200	20	mg/L		1		SM 2320 B-1997	6/5/25	AEU
Total Fluoride	0.070	0.012	mg/L	0.039	1		EPA 300.0	6/18/25	AEU
Total Chloride	3.9	0.059	mg/L	0.198	1		EPA 300.0	6/18/25	AEU
Total Sulfate	0.94	0.24	mg/L	0.78	1		EPA 300.0	6/18/25	AEU

Sample Comments:

Report Date: Thursday, July 24, 2025

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

Sample Description: **EB 3** **Caledonia CCR Well Sample**
 Sample ID: AE79050 Sample Collection Date/Time: 05/29/2025 15:45
 Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Temperature	17	0.1	Degrees C		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	8.2	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	7.6	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Total Boron	Less Than	17.3	ug/L	40	1	U	EPA 200.7	6/4/25	20
Total Calcium	Less Than	114	ug/L	500	1	U	EPA 200.7	6/4/25	20
Total Hardness as CaCO3 ug/L	Less Than	1000	ug/L	5400	1	U	Std Mtd 2340B	6/4/25	20
Total Dissolved Solids	Less Than	20	mg/L		1	J	Std Mtd 2540 C	6/3/25	SAA
Total Alkalinity as CaCO3	Less Than	20	mg/L		1		SM 2320 B-1997	6/5/25	AEU
Total Fluoride	Less Than	0.012	mg/L	0.039	1		EPA 300.0	6/18/25	AEU
Total Chloride	Less Than	0.059	mg/L	0.198	1		EPA 300.0	6/18/25	AEU
Total Sulfate	0.90	0.24	mg/L	0.78	1		EPA 300.0	6/18/25	AEU

Sample Comments:

Sample Description: **9B DUPLICATE** **Caledonia Landfill Semi Annual Sample**
 Sample ID: AE79051 Sample Collection Date/Time: 05/29/2025 11:34
 Sample Received: 05/30/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	1.98	0.05	feet		1		H2OD	5/29/25	RAMBOLL
Field Temperature	13	0.1	Degrees C		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	678	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	7.9	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Dissolved Calcium	63800	114	ug/L	500	1		EPA 200.7	6/4/25	20
Dissolved Magnesium	46900	182	ug/L	1000	1		EPA 200.7	6/4/25	20
Dissolved Sodium	17200	350	ug/L	500	1		EPA 200.7	6/4/25	20
Dissolved Potassium	2960	325	ug/L	1000	1		EPA 200.7	6/4/25	20
Dissolved Boron	124	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Dissolved Molybdenum	9.4	2.4	ug/L	10	1	J	EPA 200.7	6/4/25	20
Dissolved Selenium	Less Than	12.2	ug/L	40	1	U	EPA 200.7	6/4/25	20
Total Chloride in Groundwater	15	0.0031	mg/L	0.010	1	M1	EPA 300.0	6/18/25	AEU
Dissolved Sulfate	61	0.0062	mg/L	0.021	1	M1	EPA 300.0	6/18/25	AEU
Total Filtered Alkalinity as CaCO3	250	20	mg/l		1		Std Mtd 2320 B	6/5/25	AEU
Dissolved Hardness as CaCO3 ug/L	352000	1000	ug/L	5400	1		Std Mtd 2340B	6/4/25	020

Sample Comments:

Report Date: Thursday, July 24, 2025

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

Sample Description:	L-TANK	Caledonia Landfill Semi Annual Sample		
Sample ID:	AE79052	Sample Collection Date/Time:	05/29/2025	13:55
Sample Received:	05/30/2025	Sample Collector:	LAUREN ANDERSON	

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Temperature	14	0.1	Degrees C		1		TEMP	5/29/25	RAMBOLL
Field Conductivity	449	0	umhos		1		FCOND25	5/29/25	RAMBOLL
Field pH	8.6	0.1	Units	0.1	1		FIELDPH	5/29/25	RAMBOLL
Total Chloride	SCRATCHED		mg/L		1		EPA 300.0	12/30/99	
Total Sulfate	SCRATCHED		mg/L		1		EPA 300.0	12/30/99	
Total Alkalinity as CaCO3	SCRATCHED		mg/L		1		SM 2320 B-1997	12/30/99	
Total Boron	15100	17.3	ug/L	40	1		EPA 200.7	6/4/25	20
Total Molybdenum	2630	2.4	ug/L	10	1		EPA 200.7	6/4/25	20
Total Manganese	18.1	1.5	ug/L	5	1		EPA 200.7	6/4/25	20
Total Lead	Less Than	5.9	ug/L	20	1	U	EPA 200.7	6/4/25	20
Total Cadmium	Less Than	1.3	ug/L	5	1	U	EPA 200.7	6/4/25	20
Total Iron	929	56.7	ug/L	100	1		EPA 200.7	6/4/25	20
Total Suspended Solids	561	1.0	mg/L	3	1		Std Mtd 2540 D	6/3/25	SAA
Biochemical Oxygen Demand	Less Than	2	mg/L	2	1		Std Mtd 5210B	6/4/25	057
Total Mercury	3.83	0.28	ng/L	0.93	1		EPA 245.7	6/25/25	ARF
COD	Less Than	14.7	mg/L	50	1	U	EPA 410.4	6/13/25	20
Total Hardness as CaCO3 ug/L	917000	1000	ug/L	5400	1		Std Mtd 2340B	6/4/25	20
Total Selenium	48.2	12.2	ug/L	40	1		EPA 200.7	6/4/25	20
Acenaphthene	Less Than	1.5	ug/L	5	1	U	EPA 8270E	6/4/25	20
Acenaphthylene	Less Than	1.3	ug/L	5	1	U	EPA 8270E	6/4/25	20
Anthracene	Less Than	0.75	ug/L	5	1	U	EPA 8270E	6/4/25	20
Benzidine	ND		ug/L		1		EPA 8270E	6/4/25	20
Benzo(a)anthracene	Less Than	1.2	ug/L	5	1	U	EPA 8270E	6/4/25	20
Benzo(a)pyrene	Less Than	1.3	ug/L	5	1	U	EPA 8270E	6/4/25	20
Benzo(b)fluoranthene	Less Than	1.4	ug/L	5	1	U	EPA 8270E	6/4/25	20
Benzo(g,h,i)perylene	Less Than	1.7	ug/L	5	1	U	EPA 8270E	6/4/25	20
Benzo(k)fluoranthene	Less Than	1.4	ug/L	5	1	U	EPA 8270E	6/4/25	20
4-Bromophenylphenyl ether	Less Than	0.88	ug/L	5	1	U	EPA 8270E	6/4/25	20
Butylbenzylphthalate	Less Than	3.7	ug/L	5	1	U	EPA 8270E	6/4/25	20
4-Chloro-3-methylphenol	Less Than	0.94	ug/L	5	1	U	EPA 8270E	6/4/25	20
bis(2-Chloroethoxy)methane	Less Than	1.1	ug/L	5	1	U	EPA 8270E	6/4/25	20
bis(2-Chloroethyl) ether	Less Than	6.2	ug/L	10	1	U	EPA 8270E	6/4/25	20
bis(2-Chloroisopropyl) ether	ND		ug/L		1		EPA 8270E	6/4/25	20
2-Chloronaphthalene	Less Than	1.2	ug/L	5	1	U	EPA 8270E	6/4/25	20
2-Chlorophenol	Less Than	2.6	ug/L	5	1	U	EPA 8270E	6/4/25	20
4-Chlorophenylphenyl ether	Less Than	2	ug/L	5	1	U	EPA 8270E	6/4/25	20
Chrysene	Less Than	0.72	ug/L	5	1	U	EPA 8270E	6/4/25	20
Dibenz(a,h)anthracene	ND		ug/L		1		EPA 8270E	6/4/25	20
3,3'-Dichlorobenzidine	Less Than	1.5	ug/L	5	1	U	EPA 8270E	6/4/25	20
2,4-Dichlorophenol	Less Than	1.5	ug/L	5	1	U	EPA 8270E	6/4/25	20
Diethylphthalate	Less Than	0.6	ug/L	5	1	U	EPA 8270E	6/4/25	20
2,4-Dimethylphenol	Less Than	1.3	ug/L	5	1	U	EPA 8270E	6/4/25	20
Dimethylphthalate	Less Than	1.3	ug/L	5	1	U	EPA 8270E	6/4/25	20
Di-n-butylphthalate	Less Than	1.2	ug/L	5	1	U	EPA 8270E	6/4/25	20
4,6-Dinitro-2-methylphenol	Less Than	1.2	ug/L	10	1	U	EPA 8270E	6/4/25	20
2,4-Dinitrophenol	Less Than	11.8	ug/L	50	1	U	EPA 8270E	6/4/25	20

Report Date: Thursday, July 24, 2025

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

Sample Description:	L-TANK	Caledonia Landfill Semi Annual Sample		
Sample ID:	AE79052	Sample Collection Date/Time:	05/29/2025	13:55
Sample Received:	05/30/2025	Sample Collector:	LAUREN ANDERSON	

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
2,4-Dinitrotoluene	ND		ug/L		1		EPA 8270E	6/4/25	20
2,6-Dinitrotoluene	Less Than	0.85	ug/L	5	1	U	EPA 8270E	6/4/25	20
Di-n-octylphthalate	Less Than	4.6	ug/L	10	1	U	EPA 8270E	6/4/25	20
1,2-Diphenylhydrazine	ND		ug/L		1		EPA 8270E	6/4/25	20
bis(2-Ethylhexyl)phthalate	Less Than	2.1	ug/L	5	1	U	EPA 8270E	6/4/25	20
Fluoranthene	Less Than	0.74	ug/L	5	1	U	EPA 8270E	6/4/25	20
Fluorene	Less Than	1.4	ug/L	5	1	U	EPA 8270E	6/4/25	20
Hexachloro-1,3-butadiene	Less Than	2.5	ug/L	5	1	U	EPA 8270E	6/4/25	20
Hexachlorobenzene	Less Than	1.6	ug/L	5	1	U	EPA 8270E	6/4/25	20
Hexachlorocyclopentadiene	Less Than	1.9	ug/L	5	1	U	EPA 8270E	6/4/25	20
Hexachloroethane	Less Than	1.5	ug/L	5	1	U	EPA 8270E	6/4/25	20
Indeno(1,2,3-cd)pyrene	Less Than	1.8	ug/L	5	1	U	EPA 8270E	6/4/25	20
Isophorone	Less Than	0.98	ug/L	5	1	U	EPA 8270E	6/4/25	20
Naphthalene	Less Than	1.7	ug/L	5	1	U	EPA 8270E	6/4/25	20
Nitrobenzene	Less Than	1.6	ug/L	5	1	U	EPA 8270E	6/4/25	20
2-Nitrophenol	Less Than	1.5	ug/L	5	1	U	EPA 8270E	6/4/25	20
4-Nitrophenol	Less Than	8.3	ug/L	10	1	U	EPA 8270E	6/4/25	20
N-Nitrosodimethylamine	Less Than	1.5	ug/L	5	1	U	EPA 8270E	6/4/25	20
N-Nitroso-di-n-propylamine	Less Than	0.82	ug/L	5	1	U	EPA 8270E	6/4/25	20
N-Nitrosodiphenylamine	Less Than	0.41	ug/L	5	1	U	EPA 8270E	6/4/25	20
2,2'-Oxybis(1-chloropropane)	Less Than	0.79	ug/L	5	1	U	EPA 8270E	6/4/25	20
Pentachlorophenol	Less Than	1.6	ug/L	5	1	U	EPA 8270E	6/4/25	20
Phenanthrene	Less Than	1.1	ug/L	5	1	U	EPA 8270E	6/4/25	20
Phenol	Less Than	0.98	ug/L	5	1	U	EPA 8270E	6/4/25	20
Pyrene	Less Than	0.98	ug/L	5	1	U	EPA 8270E	6/4/25	20
2,3,4,6-Tetrachlorophenol	Less Than	2.3	ug/L	5	1	U	EPA 8270E	6/4/25	20
1,2,4-Trichlorobenzene	Less Than	2.4	ug/L	5	1	U	EPA 8270E	6/4/25	20
2,4,6-Trichlorophenol	Less Than	2	ug/L	5	1	U	EPA 8270E	6/4/25	20
1,2-Dichlorobenzene	Less Than	2	ug/L	5	1	U	EPA 8270E	6/4/25	20
1,3-Dichlorobenzene	Less Than	2.2	ug/L	5	1	U	EPA 8270E	6/4/25	20
1,4-Dichlorobenzene	Less Than	1.8	ug/L	5	1	U	EPA 8270E	6/4/25	20
1-Methylnaphthalene	Less Than	1.4	ug/L	5	1	U	EPA 8270E	6/4/25	20
2,4,5-Trichlorophenol	Less Than	1.8	ug/L	5	1	U	EPA 8270E	6/4/25	20
2-Methylnaphthalene	Less Than	1.5	ug/L	5	1	U	EPA 8270E	6/4/25	20
2-Methylphenol(m&p Cresol)	ND		ug/L		1		EPA 8270E	6/4/25	20
3-Nitroaniline	Less Than	1.8	ug/L	5	1	U	EPA 8270E	6/4/25	20
4-Nitroaniline	Less Than	2.4	ug/L	5	1	U	EPA 8270E	6/4/25	20
Acetophenone	Less Than	0.82	ug/L	5	1	U	EPA 8270E	6/4/25	20
Benzyl alcohol	Less Than	3.2	ug/L	5	1	U	EPA 8270E	6/4/25	20
Dibenzofuran	Less Than	0.93	ug/L	5	1	U	EPA 8270E	6/4/25	20
Pyridine	Less Than	7.3	ug/L	10	1	U	EPA 8270E	6/4/25	20
2-Methylphenol(o-Cresol)	Less Than	0.77	ug/L	5	1	U	EPA 8270E	6/4/25	20
2-Nitroaniline	Less Than	0.92	ug/L	5	1	U	EPA 8270E	6/4/25	20

Report Date: Thursday, July 24, 2025

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

Sample Comments:

Anions + Alkalinity scratched on this sample. Bottle not provided to complete analyses. Please see AE79088

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 Lab Services: 414-221-4595

To: Eric Kovatch
 PSB Annex A231

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



Report Date: Thursday, January 8, 2026

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

Sample Description:		W08D		Caledonia Landfill Semi Annual Sample					
Sample ID:	AE82964	Sample Collection Date/Time:	11/11/2025	12:29					
Sample Received:	11/12/2025	Sample Collector:	DL						
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	46.77	0.05	feet		1		H2OD	11/11/25	RAMBOLL
Field Temperature	8.34	0.1	Degrees C		1		TEMP	11/11/25	RAMBOLL
Field Conductivity	692.9	0	umhos		1		FCOND25	11/11/25	RAMBOLL
Field pH	7.483	0.1	Units	0.1	1		FIELDPH	11/11/25	RAMBOLL
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/21/25	020
Bicarbonate Ion	163	5.0	mg/L	10.0	1		HCO3	11/21/25	020
Dissolved Calcium	51400	1140	ug/L	5000	10	D9	EPA 200.7	12/3/25	020
Dissolved Magnesium	22300	182	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Sodium	77500	3500	ug/L	5000	10	D9	EPA 200.7	12/3/25	020
Dissolved Potassium	3590	325	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Chloride	17.1	3	mg/L	10	5	M0	EPA 300.0	12/5/25	020
Dissolved Sulfate	192	4.4	mg/L	20	10	M0	EPA 300.0	12/8/25	020
Total Dissolved Solids	404	8.7	mg/L	20	1		Std Mtd 2540 C	11/17/25	020
Total Chloride	12.1	3	mg/L	10	5		EPA 300.0	12/8/25	020
Total Sulfate	212	2.2	mg/L	10	5		EPA 300.0	12/8/25	020
Total Fluoride	1.2	0.48	mg/L	1.6	5	J	EPA 300.0	12/8/25	020
Total Boron	442	17.3	ug/L	40.0	1		EPA 200.7	12/2/25	020
Total Calcium	49400	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Hardness as CaCO3	215	1.0	mg/L	5.4	1		Std Mtd 2340B	12/2/25	020
Total Alkalinity as CaCO3	163	5	mg/L	10	1		SM 2320 B-1997	11/21/25	020
Total Magnesium	22300	182	ug/L	1000	1		EPA 200.7	12/2/25	020

Sample Comments:

Sample Description:		W09D		Caledonia Landfill Semi Annual Sample					
Sample ID:	AE82965	Sample Collection Date/Time:	11/11/2025	13:21					
Sample Received:	11/12/2025	Sample Collector:	DL						
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	53.83	0.05	feet		1		H2OD	11/11/25	
Field Temperature	7.94	0.1	Degrees C		1		TEMP	11/11/25	
Field Conductivity	330.3	0	umhos		1		FCOND25	11/11/25	
Field pH	7.72	0.1	Units	0.1	1		FIELDPH	11/11/25	
Carbonate Ion	Less Than	5	mg/L	10	1		CO3	11/21/25	020

Report Date: Thursday, January 8, 2026

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

Sample Description: **W09D** **Caledonia Landfill Semi Annual Sample**
 Sample ID: AE82965 Sample Collection Date/Time: 11/11/2025 13:21
 Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Bicarbonate Ion	142	5	mg/L	10	1		HCO3	11/21/25	020
Dissolved Calcium	18600	114	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Magnesium	10000	182	ug/L	1000	1	D9	EPA 200.7	12/2/25	020
Dissolved Sodium	44300	350	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Potassium	1370	325	ug/L	1000	1	D9	EPA 200.7	12/2/25	020
Dissolved Chloride	4.3	1.2	mg/L	4	2		EPA 300.0	12/5/25	020
Dissolved Sulfate	37.6	0.89	mg/L	4	2		EPA 300.0	12/5/25	020
Total Dissolved Solids	202	8.7	mg/L	20	1		Std Mtd 2540 C	11/17/25	020
Total Chloride	4.6	1.2	mg/L	4	2		EPA 300.0	12/8/25	020
Total Sulfate	29	0.89	mg/L	4	2		EPA 300.0	12/8/25	020
Total Fluoride	1.3	0.19	mg/L	0.63	2		EPA 300.0	12/8/25	020
Total Boron	472	17.3	ug/L	40.0	1		EPA 200.7	12/3/25	020
Total Calcium	18600	114	ug/L	500	1		EPA 200.7	12/3/25	020
Total Hardness as CaCO3	84.3	1.0	mg/L	5.4	1		Std Mtd 2340B	12/3/25	020
Total Alkalinity as CaCO3	142	5	mg/L	10	1		SM 2320 B-1997	11/21/25	020
Total Magnesium	9210	182	ug/L	1000	1		EPA 200.7	12/3/25	020

Sample Comments:

Sample Description: **W10D** **Caledonia Landfill Semi Annual Sample**
 Sample ID: AE82966 Sample Collection Date/Time: 11/11/2025 14:14
 Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	50.15	0.05	feet		1		H2OD	11/11/25	RAMBOLL
Field Temperature	9.38	0.1	Degrees C		1		TEMP	11/11/25	RAMBOLL
Field Conductivity	337.9	0	umhos		1		FCOND25	11/11/25	RAMBOLL
Field pH	7.817	0.1	Units	0.1	1		FIELDPH	11/11/25	RAMBOLL
Carbonate Ion	Less Than	5	mg/L	10	1		CO3	11/21/25	020
Bicarbonate Ion	139	5	mg/L	10	1		HCO3	11/21/25	020
Dissolved Calcium	20700	114	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Magnesium	8110	182	ug/L	1000	1	D9	EPA 200.7	12/2/25	020
Dissolved Sodium	45400	350	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Potassium	1660	325	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Chloride	4.3	1.2	mg/L	4	2		EPA 300.0	12/5/25	020
Dissolved Sulfate	42.6	0.89	mg/L	4	2		EPA 300.0	12/5/25	020
Total Dissolved Solids	244	8.7	mg/L	20	1		Std Mtd 2540 C	11/17/25	020
Total Chloride	4.2	1.2	mg/L	4	2		EPA 300.0	12/8/25	020
Total Sulfate	42.4	0.89	mg/L	4	2		EPA 300.0	12/8/25	020
Total Fluoride	1.2	0.19	mg/L	0.63	2		EPA 300.0	12/8/25	020
Total Boron	437	17.3	ug/L	40.0	1		EPA 200.7	12/2/25	020
Total Calcium	20700	114	ug/L	500	1		EPA 200.7	12/2/25	020

Report Date: Thursday, January 8, 2026

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

Sample Description: W10D Caledonia Landfill Semi Annual Sample
Sample ID: AE82966 Sample Collection Date/Time: 11/11/2025 14:14
Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Hardness as CaCO3	85.1	1.0	mg/L	5.4	1		Std Mtd 2340B	12/2/25	020
Total Alkalinity as CaCO3	139	5	mg/L	10	1		SM 2320 B-1997	11/21/25	020
Total Magnesium	8090	182	ug/L	1000	1		EPA 200.7	12/2/25	020

Sample Comments:

Sample Description: W46D Caledonia Landfill Semi Annual Sample
Sample ID: AE82967 Sample Collection Date/Time: 11/12/2025 08:18
Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	46.92	0.05	feet		1		H2OD	11/12/25	RAMBOLL
Field Temperature	10.19	0.1	Degrees C		1		TEMP	11/12/25	RAMBOLL
Field Conductivity	359.8	0	umhos		1		FCOND25	11/12/25	RAMBOLL
Field pH	7.274	0.1	Units	0.1	1		FIELDPH	11/12/25	RAMBOLL
Carbonate Ion	Less Than	5	mg/L	10	1		CO3	11/21/25	020
Bicarbonate Ion	156	5	mg/L	10	1		HCO3	11/21/25	020
Dissolved Calcium	25200	114	ug/L	500	1	D9	EPA 200.7	12/2/25	020
Dissolved Magnesium	15400	182	ug/L	1000	1	D9	EPA 200.7	12/2/25	020
Dissolved Sodium	37300	350	ug/L	500	1	D9	EPA 200.7	12/2/25	020
Dissolved Potassium	1860	325	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Chloride	5.4	1.2	mg/L	4	2		EPA 300.0	12/5/25	020
Dissolved Sulfate	36.6	0.89	mg/L	4	2		EPA 300.0	12/5/25	020
Total Dissolved Solids	214	8.7	mg/L	20	1		Std Mtd 2540 C	11/17/25	020
Total Chloride	5.4	1.2	mg/L	4	2	M0	EPA 300.0	12/8/25	020
Total Sulfate	32.8	0.89	mg/L	4	2	M0	EPA 300.0	12/8/25	020
Total Fluoride	1.1	0.19	mg/L	0.63	2		EPA 300.0	12/8/25	020
Total Boron	376	17.3	ug/L	40.0	1		EPA 200.7	12/2/25	020
Total Calcium	24400	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Hardness as CaCO3	122	1.0	mg/L	5.4	1		Std Mtd 2340B	12/2/25	020
Total Alkalinity as CaCO3	156	5	mg/L	10	1		SM 2320 B-1997	11/21/25	020
Total Magnesium	15000	182	ug/L	1000	1		EPA 200.7	12/2/25	020

Sample Comments:

Report Date: Thursday, January 8, 2026

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

Sample Description: **W48** **Caledonia Landfill Semi Annual Sample**
 Sample ID: AE82968 Sample Collection Date/Time: 11/12/2025 09:22
 Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	60.48	0.05	feet		1		H2OD	11/12/25	RAMBOLL
Field Temperature	11.52	0.1	Degrees t		1		TEMP	11/12/25	RAMBOLL
Field Conductivity	405.5	0	umhos		1		FCOND25	11/12/25	RAMBOLL
Field pH	7.661	0.1	Units	0.1	1		FIELDPH	11/12/25	RAMBOLL
Carbonate Ion	Less Than	5	mg/L	10	1		CO3	11/21/25	020
Bicarbonate Ion	232	5	mg/L	10	1		HCO3	11/21/25	020
Dissolved Calcium	25900	114	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Magnesium	17000	182	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Sodium	46800	350	ug/L	500	1	D9	EPA 200.7	12/2/25	020
Dissolved Potassium	1790	325	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Chloride	4	1.2	mg/L	4	2		EPA 300.0	12/5/25	020
Dissolved Sulfate	Less Than	0.89	mg/L	4	2	D3	EPA 300.0	12/5/25	020
Total Dissolved Solids	226	8.7	mg/L	20	1		Std Mtd 2540 C	11/17/25	020
Total Chloride	4	1.2	mg/L	4	2		EPA 300.0	12/8/25	020
Total Sulfate	Less Than	0.89	mg/L	4	2	D3	EPA 300.0	12/8/25	020
Total Fluoride	0.94	0.19	mg/L	0.63	2		EPA 300.0	12/8/25	020
Total Boron	394	17.3	ug/L	40.0	1		EPA 200.7	12/2/25	020
Total Calcium	26200	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Hardness as CaCO3	136	1.0	mg/L	5.4	1		Std Mtd 2340B	12/2/25	020
Total Alkalinity as CaCO3	232	5	mg/L	10	1		SM 2320 B-1997	11/21/25	020
Total Magnesium	17100	182	ug/L	1000	1		EPA 200.7	12/2/25	020

Sample Comments:

Sample Description: **W49 - RADIUM 226 + 22** **Caledonia Landfill Semi Annual Sample**
 Sample ID: AE82969 Sample Collection Date/Time: 11/12/2025 10:31
 Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	64.51	0.05	feet		1		H2OD	11/12/25	RAMBOLL
Field Temperature	10.2	0.1	Degrees t		1		TEMP	11/12/25	RAMBOLL
Field Conductivity	346.1	0	umhos		1		FCOND25	11/12/25	RAMBOLL
Field pH	7.075	0.1	Units	0.1	1		FIELDPH	11/12/25	RAMBOLL
Carbonate Ion	Less Than	5	mg/L	10	1		CO3	11/21/25	020
Bicarbonate Ion	122	5	mg/L	10	1		HCO3	11/21/25	020
Dissolved Calcium	16000	114	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Magnesium	7010	182	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Sodium	53000	350	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Potassium	1120	325	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Chloride	4.6	1.2	mg/L	4	2		EPA 300.0	12/5/25	020
Dissolved Sulfate	52.5	0.89	mg/L	4	2		EPA 300.0	12/5/25	020
Total Dissolved Solids	228	8.7	mg/L	20	1		Std Mtd 2540 C	11/17/25	020

Report Date: Thursday, January 8, 2026

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

Sample Description: **W49 - RADIUM 226 + 22 Caledonia Landfill Semi Annual Sample**
 Sample ID: AE82969 Sample Collection Date/Time: 11/12/2025 10:31
 Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	
Total Chloride	4.7	1.2	mg/L	4	2		EPA 300.0	12/8/25	020	
Total Sulfate	52.7	0.89	mg/L	4	2		EPA 300.0	12/8/25	020	
Total Fluoride	1.4	0.19	mg/L	0.63	2		EPA 300.0	12/8/25	020	
Total Boron	482	17.3	ug/L	40.0	1		EPA 200.7	12/2/25	020	
Total Calcium	16200	114	ug/L	500	1		EPA 200.7	12/2/25	020	
Total Hardness as CaCO3	69.5	1.0	mg/L	5.4	1		Std Mtd 2340B	12/2/25	020	
Miscellaneous	See attached report					1			12/5/25	020
Total Alkalinity as CaCO3	122	5	mg/L	10	1		SM 2320 B-1997	11/21/25	020	
Total Magnesium	7050	182	ug/L	1000	1		EPA 200.7	12/2/25	020	

Sample Comments:

Sample Description: **W50 - RADIUM 226 + 28 Caledonia Landfill Semi Annual Sample**
 Sample ID: AE82970 Sample Collection Date/Time: 11/12/2025 11:49
 Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	
Field Water Level	40.28	0.05	feet		1		H2OD	11/12/25	RAMBOLL	
Field Temperature	11.5	0.1	Degrees t		1		TEMP	11/12/25	RAMBOLL	
Field Conductivity	440.3	0	umhos		1		FCOND25	11/12/25	RAMBOLL	
Field pH	7.772	0.1	Units	0.1	1		FIELDPH	11/12/25	RAMBOLL	
Carbonate Ion	Less Than	5	mg/L	10	1		CO3	11/21/25	020	
Bicarbonate Ion	155	5	mg/L	10	1		HCO3	11/21/25	020	
Dissolved Calcium	26500	114	ug/L	500	1	D9	EPA 200.7	12/2/25	020	
Dissolved Magnesium	10000	182	ug/L	1000	1	D9	EPA 200.7	12/2/25	020	
Dissolved Sodium	58100	350	ug/L	500	1		EPA 200.7	12/2/25	020	
Dissolved Potassium	1760	325	ug/L	1000	1		EPA 200.7	12/2/25	020	
Dissolved Chloride	5	1.2	mg/L	4	2		EPA 300.0	12/5/25	020	
Dissolved Sulfate	73.3	0.89	mg/L	4	2		EPA 300.0	12/5/25	020	
Total Dissolved Solids	246	8.7	mg/L	20	1		Std Mtd 2540 C	11/17/25	020	
Total Chloride	6	3	mg/L	10	5	J,D3,M	EPA 300.0	12/8/25	020	
Total Sulfate	82.5	2.2	mg/L	10	5		EPA 300.0	12/8/25	020	
Total Fluoride	1.2	0.48	mg/L	1.6	5	J,D3	EPA 300.0	12/8/25	020	
Total Boron	541	17.3	ug/L	40.0	1		EPA 200.7	12/2/25	020	
Total Calcium	25500	114	ug/L	500	1		EPA 200.7	12/2/25	020	
Total Hardness as CaCO3	104	1.0	mg/L	5.4	1		Std Mtd 2340B	12/2/25	020	
Miscellaneous	See attached report					1			12/5/25	020
Total Alkalinity as CaCO3	155	5	mg/L	10	1		SM 2320 B-1997	11/21/25	020	
Total Magnesium	9710	182	ug/L	1000	1		EPA 200.7	12/2/25	020	

Report Date: Thursday, January 8, 2026

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

Sample Comments:

Sample Description: **QC01** **Caledonia Landfill Semi Annual Sample**
 Sample ID: AE82971 Sample Collection Date/Time: 11/12/2025 08:23
 Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	46.92	0.05	feet		1		H2OD	11/12/25	RAMBOLL
Field Temperature	10.19	0.1	Degrees t		1		TEMP	11/12/25	RAMBOLL
Field Conductivity	359.8	0	umhos		1		FCOND25	11/12/25	RAMBOLL
Field pH	7.274	0.1	Units	0.1	1		FIELDPH	11/12/25	RAMBOLL
Carbonate Ion	Less Than	5	mg/L	10	1		CO3	11/21/25	020
Bicarbonate Ion	154	5	mg/L	10	1		HCO3	11/21/25	020
Dissolved Calcium	24000	114	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Magnesium	14700	182	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Sodium	34700	350	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Potassium	1750	325	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Chloride	5.2	1.2	mg/L	4	2		EPA 300.0	12/5/25	020
Dissolved Sulfate	37.5	0.89	mg/L	4	2		EPA 300.0	12/5/25	020
Total Dissolved Solids	204	8.7	mg/L	20	1		Std Mtd 2540 C	11/17/25	020
Total Chloride	5.4	1.2	mg/L	4	2		EPA 300.0	12/8/25	020
Total Sulfate	34.6	0.89	mg/L	4	2		EPA 300.0	12/8/25	020
Total Fluoride	1.1	0.19	mg/L	0.63	2		EPA 300.0	12/8/25	020
Total Boron	376	17.3	ug/L	40.0	1		EPA 200.7	12/2/25	020
Total Calcium	24500	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Hardness as CaCO3	123	1.0	mg/L	5.4	1		Std Mtd 2340B	12/2/25	020
Total Alkalinity as CaCO3	154	5	mg/L	10	1		SM 2320 B-1997	11/21/25	020
Total Magnesium	15100	182	ug/L	1000	1		EPA 200.7	12/2/25	020

Sample Comments:

Sample Description: **EB 3** **Caledonia Landfill Semi Annual Sample**
 Sample ID: AE82972 Sample Collection Date/Time: 11/12/2025 12:10
 Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	Not Applicable	0.05	feet		1		H2OD	11/12/25	RAMBOLL
Field Temperature	Not Applicable	0.1	Degrees t		1		TEMP	11/12/25	RAMBOLL
Field Conductivity	Not Applicable	0	umhos		1		FCOND25	11/12/25	RAMBOLL
Field pH	Not Applicable	0.1	Units	0.1	1		FIELDPH	11/12/25	RAMBOLL
Carbonate Ion	Less Than	5	mg/L	10	1		CO3	11/21/25	020
Bicarbonate Ion	Less Than	5	mg/L	10	1		HCO3	11/21/25	020

Report Date: Thursday, January 8, 2026

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

Sample Description: **EB 3** **Caledonia Landfill Semi Annual Sample**
Sample ID: AE82972 Sample Collection Date/Time: 11/12/2025 12:10
Sample Received: 11/12/2025 Sample Collector: DL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Dissolved Calcium	Less Than	114	ug/L	500	1		EPA 200.7	12/2/25	020
Dissolved Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Sodium	485	350	ug/L	500	1	J	EPA 200.7	12/2/25	020
Dissolved Potassium	Less Than	325	ug/L	1000	1		EPA 200.7	12/2/25	020
Dissolved Chloride	Less Than	1.2	mg/L	4	2	D3	EPA 300.0	12/5/25	020
Dissolved Sulfate	Less Than	0.89	mg/L	4	2	D3	EPA 300.0	12/5/25	020
Total Dissolved Solids	Less Than	8.7	mg/L	20	1		Std Mtd 2540 C	11/17/25	020
Total Chloride	Less Than	1.2	mg/L	4	2	D3	EPA 300.0	12/8/25	020
Total Sulfate	Less Than	0.89	mg/L	4	2	D3	EPA 300.0	12/8/25	020
Total Fluoride	Less Than	0.19	mg/L	0.63	2	D3	EPA 300.0	12/8/25	020
Total Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	12/3/25	020
Total Calcium	Less Than	114	ug/L	500	1		EPA 200.7	12/3/25	020
Total Hardness as CaCO3	Less Than	1.0	mg/L	5.4	1		Std Mtd 2340B	12/3/25	020
Total Alkalinity as CaCO3	Less Than	5	mg/L	10	1		SM 2320 B-1997	11/21/25	020
Total Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	12/3/25	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 Lab Services: 414-221-4595



January 08, 2026

Autumn Farrell
WEC Business Services, LLC.

RE: Project: Q-6005-001005 CALEDONIA SEMI-A
Pace Project No.: 40305141

Dear Autumn Farrell:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2025. 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
- Pace Analytical Services - Greensburg

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: WE Energies Lab Reports, WE Energies
MARK METCALF, WEC Business Services, LLC.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Q-6005-001005 CALEDONIA SEMI-A

Pace Project No.: 40305141

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
 ANABISO/IEC 17025:2017 Rad Cert#: L24170
 Arizona Certification #: AZ0734
 California Certification #: 2950
 Connecticut Certification #: PH-0694
 Florida/TNI Certification #: E87683
 Guam Certification
 Idaho Certification
 Indiana Certification
 Kansas Certification #: E-10358
 KY WW Permit #: KY0098221
 Louisiana DHH/TNI Certification #: LA010
 Maine Certification #: 2023021
 Massachusetts Certification #: M-PA1457
 Missouri Certification #: 235
 Nebraska Certification #: NE-OS-29-14
 New Hampshire/TNI Certification #: 297622
 New Mexico Certification #: PA01457
 North Carolina Certification #: 42706
 Ohio EPA Rad Approval: #41249
 Pennsylvania/TNI Certification #: 65-00282
 Rhode Island Certification #: 65-00282
 Tennessee Certification #: TN02867
 Utah/TNI Certification #: PA014572223-14
 Vermont Dept. of Health: ID# VT-0282
 Virginia/VELAP Certification #: 460198
 West Virginia DEP Certification #: 143
 Wisconsin Approve List for Rad

ANAB DOD-ELAP Rad Accreditation #: L2417
 Alabama Certification #: 41590
 Arkansas Certification
 Colorado Certification #: PA01547
 EPA Region 4 DW Rad
 Georgia Certification #: C040
 Hawaii Certification
 Illinois Certification
 Iowa Certification #: 391
 Kentucky Certification #: KY90133
 KY WW Permit #: KY0000221
 Louisiana DEQ/TNI Certification #: 04086
 Maryland Certification #: 308
 Michigan/PADEP Certification #: 9991
 Montana Certification #: Cert0082
 Nevada Certification #: PA014572023-03
 New Jersey/TNI Certification #: PA051
 New York/TNI Certification #: 10888
 North Dakota Certification #: R-190
 Oregon/TNI Certification #: PA200002-015
 Puerto Rico Certification #: PA01457
 South Dakota Certification
 Texas/TNI Certification #: T104704188-22-18
 USDA Soil Permit #: 525-23-67-77263
 Virgin Island/PADEP Certification
 Washington Certification #: C868
 West Virginia DHHR Certification #: 9964C

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302
 Illinois EPA Certification # 200050
 Kentucky UST DEP Certification # 123059
 Minnesota DOH Certification # 055-999-334
 North Dakota DEQ Certification # R-150
 South Carolina DES Certification # 83006001
 USDA APHIS Foreign Soil Permit # 525-24-3-36355
 Virginia VELAP Certification # 460263
 Wisconsin DNR Certification # 405132750

Florida DOH Certification # E87948
 ISO/IEC 17025 (A2LA) Certification # 6154.01
 Louisiana DEQ Certification # 04168
 New York DOH Certification # 12064
 ISO/IEC 17025 (A2LA) Certification # 6154.01
 Texas TCEQ Certification # T104704529
 U.S. Fish & Wildlife Service Permit # 51774A
 Wisconsin DATCP Certification # 444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Q-6005-001005 CALEDONIA SEMI-A
Pace Project No.: 40305141

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40305141001	AE82964(W08D)	Water	11/10/25 08:30	11/15/25 08:40
40305141002	AE82965(W09D)	Water	11/10/25 08:20	11/15/25 08:40
40305141003	AE82966(W10D)	Water	11/10/25 08:40	11/15/25 08:40
40305141004	AE82967(W46D)	Water	11/10/25 09:29	11/15/25 08:40
40305141005	AE82968(W48)	Water	11/10/25 09:37	11/15/25 08:40
40305141006	AE82969(W49)	Water	11/10/25 09:21	11/15/25 08:40
40305141007	AE82970(W50)	Water	11/10/25 11:35	11/15/25 08:40
40305141008	AE82971(QC01)	Water	11/10/25 13:39	11/15/25 08:40
40305141009	AE82972(EB3)	Water	11/10/25 13:43	11/15/25 08:40

REPORT OF LABORATORY ANALYSIS

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Date: 01/08/2026 09:33 AM



SAMPLE ANALYTE COUNT

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141



Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40305141001	AE82964(W08D)	EPA 200.7	AJT, SIS	6	PASI-G
		EPA 200.7	AJT, SIS	4	PASI-G
		SM 2320B	TMK	3	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 300.0	SCH	3	PASI-G
		EPA 300.0	SCH	2	PASI-G
40305141002	AE82965(W09D)	EPA 200.7	AJT	6	PASI-G
		EPA 200.7	SIS	4	PASI-G
		SM 2320B	TMK	3	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 300.0	SCH	3	PASI-G
		EPA 300.0	SCH	2	PASI-G
40305141003	AE82966(W10D)	EPA 200.7	SIS	6	PASI-G
		EPA 200.7	SIS	4	PASI-G
		SM 2320B	TMK	3	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 300.0	SCH	3	PASI-G
		EPA 300.0	SCH	2	PASI-G
40305141004	AE82967(W46D)	EPA 200.7	SIS	6	PASI-G
		EPA 200.7	SIS	4	PASI-G
		SM 2320B	TMK	3	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 300.0	SCH	3	PASI-G
		EPA 300.0	SCH	2	PASI-G
40305141005	AE82968(W48)	EPA 200.7	SIS	6	PASI-G
		EPA 200.7	SIS	4	PASI-G
		SM 2320B	TMK	3	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 300.0	SCH	3	PASI-G
		EPA 300.0	SCH	2	PASI-G
40305141006	AE82969(W49)	EPA 200.7	SIS	6	PASI-G
		EPA 200.7	SIS	4	PASI-G
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	TMK	3	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 300.0	SCH	3	PASI-G
		EPA 300.0	SCH	2	PASI-G

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SAMPLE ANALYTE COUNT

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40305141007	AE82970(W50)	EPA 200.7	SIS	6	PASI-G
		EPA 200.7	SIS	4	PASI-G
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	TMK	3	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 300.0	SCH	3	PASI-G
		EPA 300.0	SCH	2	PASI-G
40305141008	AE82971(QC01)	EPA 200.7	SIS	6	PASI-G
		EPA 200.7	SIS	4	PASI-G
		SM 2320B	TMK	3	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 300.0	SCH	3	PASI-G
		EPA 300.0	SCH	2	PASI-G
40305141009	AE82972(EB3)	EPA 200.7	AJT	6	PASI-G
		EPA 200.7	SIS	4	PASI-G
		SM 2320B	TMK	3	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 300.0	SCH	3	PASI-G
		EPA 300.0	SCH	2	PASI-G

PASI-G = Pace Analytical Services - Green Bay
 PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82964(W08D)	Lab ID: 40305141001	Collected: 11/10/25 08:30	Received: 11/15/25 08:40	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Boron	442	ug/L	40.0	17.3	1	12/01/25 17:08	12/02/25 14:13	7440-42-8	
Calcium	49400	ug/L	500	114	1	12/01/25 17:08	12/02/25 14:13	7440-70-2	
Magnesium	22300	ug/L	1000	182	1	12/01/25 17:08	12/02/25 14:13	7439-95-4	
Potassium	4110	ug/L	1000	325	1	12/01/25 17:08	12/02/25 14:13	7440-09-7	
Sodium	75500	ug/L	5000	3500	10	12/01/25 17:08	12/03/25 18:16	7440-23-5	
Total Hardness by 2340B	215000	ug/L	5400	1000	1	12/01/25 17:08	12/02/25 14:13		
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Calcium, Dissolved	51400	ug/L	5000	1140	10	12/01/25 17:07	12/03/25 18:01	7440-70-2	D9
Magnesium, Dissolved	22300	ug/L	1000	182	1	12/01/25 17:07	12/02/25 14:50	7439-95-4	
Potassium, Dissolved	3590	ug/L	1000	325	1	12/01/25 17:07	12/02/25 14:50	7440-09-7	
Sodium, Dissolved	77500	ug/L	5000	3500	10	12/01/25 17:07	12/03/25 18:01	7440-23-5	D9
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	163	mg/L	10.0	5.0	1		11/21/25 11:47		
Alkalinity, Bicarbonate (CaCO3)	163	mg/L	10.0	5.0	1		11/21/25 11:47		
Alkalinity, Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 11:47		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	404	mg/L	20.0	8.7	1		11/17/25 16:29		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	12.1	mg/L	10.0	3.0	5		12/08/25 14:49	16887-00-6	
Fluoride	1.2J	mg/L	1.6	0.48	5		12/08/25 14:49	16984-48-8	
Sulfate	212	mg/L	10.0	2.2	5		12/08/25 14:49	14808-79-8	
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride, Dissolved	17.1	mg/L	10.0	3.0	5		12/05/25 18:58	16887-00-6	M0

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82964(W08D)		Lab ID: 40305141001		Collected: 11/10/25 08:30	Received: 11/15/25 08:40	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions, Dissolved		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate, Dissolved	192	mg/L	20.0	4.4	10		12/08/25 11:34	14808-79-8	M0	

Sample: AE82965(W09D)		Lab ID: 40305141002		Collected: 11/10/25 08:20	Received: 11/15/25 08:40	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 MET ICP		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay								
Boron	472	ug/L	40.0	17.3	1	12/01/25 17:08	12/03/25 18:23	7440-42-8		
Calcium	18600	ug/L	500	114	1	12/01/25 17:08	12/03/25 18:23	7440-70-2		
Magnesium	9210	ug/L	1000	182	1	12/01/25 17:08	12/03/25 18:23	7439-95-4		
Potassium	1130	ug/L	1000	325	1	12/01/25 17:08	12/03/25 18:23	7440-09-7		
Sodium	48700	ug/L	500	350	1	12/01/25 17:08	12/03/25 18:23	7440-23-5		
Total Hardness by 2340B	84300	ug/L	5400	1000	1	12/01/25 17:08	12/03/25 18:23			

200.7 MET ICP, Dissolved		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Calcium, Dissolved	18600	ug/L	500	114	1	12/01/25 17:07	12/02/25 14:58	7440-70-2		
Magnesium, Dissolved	10000	ug/L	1000	182	1	12/01/25 17:07	12/02/25 14:58	7439-95-4	D9	
Potassium, Dissolved	1370	ug/L	1000	325	1	12/01/25 17:07	12/02/25 14:58	7440-09-7	D9	
Sodium, Dissolved	44300	ug/L	500	350	1	12/01/25 17:07	12/02/25 14:58	7440-23-5		

2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Green Bay								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Alkalinity, Total as CaCO3	142	mg/L	10.0	5.0	1		11/21/25 12:16			
Alkalinity, Bicarbonate (CaCO3)	142	mg/L	10.0	5.0	1		11/21/25 12:16			
Alkalinity, Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 12:16			

2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Total Dissolved Solids	202	mg/L	20.0	8.7	1		11/17/25 16:29			

300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Chloride	4.6	mg/L	4.0	1.2	2		12/08/25 15:00	16887-00-6		

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82965(W09D) **Lab ID: 40305141002** Collected: 11/10/25 08:20 Received: 11/15/25 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Fluoride	1.3	mg/L	0.63	0.19	2		12/08/25 15:00	16984-48-8	
Sulfate	29.0	mg/L	4.0	0.89	2		12/08/25 15:00	14808-79-8	
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride, Dissolved	4.3	mg/L	4.0	1.2	2		12/05/25 19:30	16887-00-6	
Sulfate, Dissolved	37.6	mg/L	4.0	0.89	2		12/05/25 19:30	14808-79-8	

Sample: AE82966(W10D) **Lab ID: 40305141003** Collected: 11/10/25 08:40 Received: 11/15/25 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Boron	437	ug/L	40.0	17.3	1	12/01/25 17:08	12/02/25 14:24	7440-42-8	
Calcium	20700	ug/L	500	114	1	12/01/25 17:08	12/02/25 14:24	7440-70-2	
Magnesium	8090	ug/L	1000	182	1	12/01/25 17:08	12/02/25 14:24	7439-95-4	
Potassium	1780	ug/L	1000	325	1	12/01/25 17:08	12/02/25 14:24	7440-09-7	
Sodium	45400	ug/L	500	350	1	12/01/25 17:08	12/02/25 14:24	7440-23-5	
Total Hardness by 2340B	85100	ug/L	5400	1000	1	12/01/25 17:08	12/02/25 14:24		
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Calcium, Dissolved	20700	ug/L	500	114	1	12/01/25 17:07	12/02/25 15:02	7440-70-2	
Magnesium, Dissolved	8110	ug/L	1000	182	1	12/01/25 17:07	12/02/25 15:02	7439-95-4	D9
Potassium, Dissolved	1660	ug/L	1000	325	1	12/01/25 17:07	12/02/25 15:02	7440-09-7	
Sodium, Dissolved	45400	ug/L	500	350	1	12/01/25 17:07	12/02/25 15:02	7440-23-5	

2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	139	mg/L	10.0	5.0	1		11/21/25 12:24		
Alkalinity,Bicarbonate (CaCO3)	139	mg/L	10.0	5.0	1		11/21/25 12:24		
Alkalinity,Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 12:24		

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82966(W10D) **Lab ID: 40305141003** Collected: 11/10/25 08:40 Received: 11/15/25 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	244	mg/L	20.0	8.7	1		11/17/25 16:30		

300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	4.2	mg/L	4.0	1.2	2		12/08/25 15:10	16887-00-6	
Fluoride	1.2	mg/L	0.63	0.19	2		12/08/25 15:10	16984-48-8	
Sulfate	42.4	mg/L	4.0	0.89	2		12/08/25 15:10	14808-79-8	

300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride, Dissolved	4.3	mg/L	4.0	1.2	2		12/05/25 19:41	16887-00-6	
Sulfate, Dissolved	42.6	mg/L	4.0	0.89	2		12/05/25 19:41	14808-79-8	

Sample: AE82967(W46D) **Lab ID: 40305141004** Collected: 11/10/25 09:29 Received: 11/15/25 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Boron	376	ug/L	40.0	17.3	1	12/01/25 17:08	12/02/25 14:26	7440-42-8	
Calcium	24400	ug/L	500	114	1	12/01/25 17:08	12/02/25 14:26	7440-70-2	
Magnesium	15000	ug/L	1000	182	1	12/01/25 17:08	12/02/25 14:26	7439-95-4	
Potassium	1870	ug/L	1000	325	1	12/01/25 17:08	12/02/25 14:26	7440-09-7	
Sodium	35700	ug/L	500	350	1	12/01/25 17:08	12/02/25 14:26	7440-23-5	
Total Hardness by 2340B	122000	ug/L	5400	1000	1	12/01/25 17:08	12/02/25 14:26		

200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Calcium, Dissolved	25200	ug/L	500	114	1	12/01/25 17:07	12/02/25 15:04	7440-70-2	D9
Magnesium, Dissolved	15400	ug/L	1000	182	1	12/01/25 17:07	12/02/25 15:04	7439-95-4	D9
Potassium, Dissolved	1860	ug/L	1000	325	1	12/01/25 17:07	12/02/25 15:04	7440-09-7	
Sodium, Dissolved	37300	ug/L	500	350	1	12/01/25 17:07	12/02/25 15:04	7440-23-5	D9

2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82967(W46D)		Lab ID: 40305141004		Collected: 11/10/25 09:29	Received: 11/15/25 08:40	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	156	mg/L	10.0	5.0	1		11/21/25 12:31		
Alkalinity, Bicarbonate (CaCO3)	156	mg/L	10.0	5.0	1		11/21/25 12:31		
Alkalinity, Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 12:31		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	214	mg/L	20.0	8.7	1		11/17/25 16:30		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	5.4	mg/L	4.0	1.2	2		12/08/25 15:21	16887-00-6	M0
Fluoride	1.1	mg/L	0.63	0.19	2		12/08/25 15:21	16984-48-8	
Sulfate	32.8	mg/L	4.0	0.89	2		12/08/25 15:21	14808-79-8	M0
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride, Dissolved	5.4	mg/L	4.0	1.2	2		12/05/25 19:52	16887-00-6	
Sulfate, Dissolved	36.6	mg/L	4.0	0.89	2		12/05/25 19:52	14808-79-8	

Sample: AE82968(W48)		Lab ID: 40305141005		Collected: 11/10/25 09:37	Received: 11/15/25 08:40	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Boron	394	ug/L	40.0	17.3	1	12/01/25 17:08	12/02/25 14:32	7440-42-8	
Calcium	26200	ug/L	500	114	1	12/01/25 17:08	12/02/25 14:32	7440-70-2	
Magnesium	17100	ug/L	1000	182	1	12/01/25 17:08	12/02/25 14:32	7439-95-4	
Potassium	1900	ug/L	1000	325	1	12/01/25 17:08	12/02/25 14:32	7440-09-7	
Sodium	46400	ug/L	500	350	1	12/01/25 17:08	12/02/25 14:32	7440-23-5	
Total Hardness by 2340B	136000	ug/L	5400	1000	1	12/01/25 17:08	12/02/25 14:32		
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Calcium, Dissolved	25900	ug/L	500	114	1	12/01/25 17:07	12/02/25 15:10	7440-70-2	

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82968(W48)	Lab ID: 40305141005	Collected: 11/10/25 09:37	Received: 11/15/25 08:40	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Magnesium, Dissolved	17000	ug/L	1000	182	1	12/01/25 17:07	12/02/25 15:10	7439-95-4	
Potassium, Dissolved	1790	ug/L	1000	325	1	12/01/25 17:07	12/02/25 15:10	7440-09-7	
Sodium, Dissolved	46800	ug/L	500	350	1	12/01/25 17:07	12/02/25 15:10	7440-23-5	D9
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	232	mg/L	10.0	5.0	1		11/21/25 12:38		
Alkalinity, Bicarbonate (CaCO3)	232	mg/L	10.0	5.0	1		11/21/25 12:38		
Alkalinity, Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 12:38		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	226	mg/L	20.0	8.7	1		11/17/25 16:31		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	4.0	mg/L	4.0	1.2	2		12/08/25 16:26	16887-00-6	
Fluoride	0.94	mg/L	0.63	0.19	2		12/08/25 16:26	16984-48-8	
Sulfate	<0.89	mg/L	4.0	0.89	2		12/08/25 16:26	14808-79-8	D3
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride, Dissolved	4.0	mg/L	4.0	1.2	2		12/05/25 20:35	16887-00-6	
Sulfate, Dissolved	<0.89	mg/L	4.0	0.89	2		12/05/25 20:35	14808-79-8	D3

Sample: AE82969(W49)	Lab ID: 40305141006	Collected: 11/10/25 09:21	Received: 11/15/25 08:40	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Boron	482	ug/L	40.0	17.3	1	12/01/25 17:08	12/02/25 14:34	7440-42-8	
Calcium	16200	ug/L	500	114	1	12/01/25 17:08	12/02/25 14:34	7440-70-2	
Magnesium	7050	ug/L	1000	182	1	12/01/25 17:08	12/02/25 14:34	7439-95-4	
Potassium	1280	ug/L	1000	325	1	12/01/25 17:08	12/02/25 14:34	7440-09-7	

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82969(W49)	Lab ID: 40305141006	Collected: 11/10/25 09:21	Received: 11/15/25 08:40	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Sodium	53500	ug/L	500	350	1	12/01/25 17:08	12/02/25 14:34	7440-23-5	
Total Hardness by 2340B	69500	ug/L	5400	1000	1	12/01/25 17:08	12/02/25 14:34		
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Calcium, Dissolved	16000	ug/L	500	114	1	12/01/25 17:07	12/02/25 15:12	7440-70-2	
Magnesium, Dissolved	7010	ug/L	1000	182	1	12/01/25 17:07	12/02/25 15:12	7439-95-4	
Potassium, Dissolved	1120	ug/L	1000	325	1	12/01/25 17:07	12/02/25 15:12	7440-09-7	
Sodium, Dissolved	53000	ug/L	500	350	1	12/01/25 17:07	12/02/25 15:12	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	122	mg/L	10.0	5.0	1		11/21/25 12:46		
Alkalinity,Bicarbonate (CaCO3)	122	mg/L	10.0	5.0	1		11/21/25 12:46		
Alkalinity,Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 12:46		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	228	mg/L	20.0	8.7	1		11/17/25 16:31		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	4.7	mg/L	4.0	1.2	2		12/08/25 16:37	16887-00-6	
Fluoride	1.4	mg/L	0.63	0.19	2		12/08/25 16:37	16984-48-8	
Sulfate	52.7	mg/L	4.0	0.89	2		12/08/25 16:37	14808-79-8	
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride, Dissolved	4.6	mg/L	4.0	1.2	2		12/05/25 20:46	16887-00-6	
Sulfate, Dissolved	52.5	mg/L	4.0	0.89	2		12/05/25 20:46	14808-79-8	

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82970(W50)	Lab ID: 40305141007	Collected: 11/10/25 11:35	Received: 11/15/25 08:40	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Boron	541	ug/L	40.0	17.3	1	12/01/25 17:08	12/02/25 14:36	7440-42-8	
Calcium	25500	ug/L	500	114	1	12/01/25 17:08	12/02/25 14:36	7440-70-2	
Magnesium	9710	ug/L	1000	182	1	12/01/25 17:08	12/02/25 14:36	7439-95-4	
Potassium	1900	ug/L	1000	325	1	12/01/25 17:08	12/02/25 14:36	7440-09-7	
Sodium	59200	ug/L	500	350	1	12/01/25 17:08	12/02/25 14:36	7440-23-5	
Total Hardness by 2340B	104000	ug/L	5400	1000	1	12/01/25 17:08	12/02/25 14:36		
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Calcium, Dissolved	26500	ug/L	500	114	1	12/01/25 17:07	12/02/25 15:14	7440-70-2	D9
Magnesium, Dissolved	10000	ug/L	1000	182	1	12/01/25 17:07	12/02/25 15:14	7439-95-4	D9
Potassium, Dissolved	1760	ug/L	1000	325	1	12/01/25 17:07	12/02/25 15:14	7440-09-7	
Sodium, Dissolved	58100	ug/L	500	350	1	12/01/25 17:07	12/02/25 15:14	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	155	mg/L	10.0	5.0	1		11/21/25 13:09		
Alkalinity, Bicarbonate (CaCO3)	155	mg/L	10.0	5.0	1		11/21/25 13:09		
Alkalinity, Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 13:09		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	246	mg/L	20.0	8.7	1		11/17/25 16:31		
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	6.0J	mg/L	10.0	3.0	5		12/08/25 16:48	16887-00-6	D3,M0
Fluoride	1.2J	mg/L	1.6	0.48	5		12/08/25 16:48	16984-48-8	D3
Sulfate	82.5	mg/L	10.0	2.2	5		12/08/25 16:48	14808-79-8	
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride, Dissolved	5.0	mg/L	4.0	1.2	2		12/05/25 20:57	16887-00-6	

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82970(W50)		Lab ID: 40305141007		Collected: 11/10/25 11:35	Received: 11/15/25 08:40	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions, Dissolved		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate, Dissolved	73.3	mg/L	4.0	0.89	2		12/05/25 20:57	14808-79-8		

Sample: AE82971(QC01)		Lab ID: 40305141008		Collected: 11/10/25 13:39	Received: 11/15/25 08:40	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 MET ICP		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay								
Boron	376	ug/L	40.0	17.3	1	12/01/25 17:08	12/02/25 14:38	7440-42-8		
Calcium	24500	ug/L	500	114	1	12/01/25 17:08	12/02/25 14:38	7440-70-2		
Magnesium	15100	ug/L	1000	182	1	12/01/25 17:08	12/02/25 14:38	7439-95-4		
Potassium	1820	ug/L	1000	325	1	12/01/25 17:08	12/02/25 14:38	7440-09-7		
Sodium	35800	ug/L	500	350	1	12/01/25 17:08	12/02/25 14:38	7440-23-5		
Total Hardness by 2340B	123000	ug/L	5400	1000	1	12/01/25 17:08	12/02/25 14:38			

200.7 MET ICP, Dissolved		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Calcium, Dissolved	24000	ug/L	500	114	1	12/01/25 17:07	12/02/25 15:16	7440-70-2		
Magnesium, Dissolved	14700	ug/L	1000	182	1	12/01/25 17:07	12/02/25 15:16	7439-95-4		
Potassium, Dissolved	1750	ug/L	1000	325	1	12/01/25 17:07	12/02/25 15:16	7440-09-7		
Sodium, Dissolved	34700	ug/L	500	350	1	12/01/25 17:07	12/02/25 15:16	7440-23-5		

2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Green Bay								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Alkalinity, Total as CaCO3	154	mg/L	10.0	5.0	1		11/21/25 13:16			
Alkalinity, Bicarbonate (CaCO3)	154	mg/L	10.0	5.0	1		11/21/25 13:16			
Alkalinity, Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 13:16			

2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Total Dissolved Solids	204	mg/L	20.0	8.7	1		11/17/25 16:31			

300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Chloride	5.4	mg/L	4.0	1.2	2		12/08/25 17:21	16887-00-6		

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82971(QC01) **Lab ID: 40305141008** Collected: 11/10/25 13:39 Received: 11/15/25 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Fluoride	1.1	mg/L	0.63	0.19	2		12/08/25 17:21	16984-48-8	
Sulfate	34.6	mg/L	4.0	0.89	2		12/08/25 17:21	14808-79-8	

300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride, Dissolved	5.2	mg/L	4.0	1.2	2		12/05/25 21:08	16887-00-6	
Sulfate, Dissolved	37.5	mg/L	4.0	0.89	2		12/05/25 21:08	14808-79-8	

Sample: AE82972(EB3) **Lab ID: 40305141009** Collected: 11/10/25 13:43 Received: 11/15/25 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Boron	<17.3	ug/L	40.0	17.3	1	12/01/25 17:08	12/03/25 18:27	7440-42-8	
Calcium	<114	ug/L	500	114	1	12/01/25 17:08	12/03/25 18:27	7440-70-2	
Magnesium	<182	ug/L	1000	182	1	12/01/25 17:08	12/03/25 18:27	7439-95-4	
Potassium	<325	ug/L	1000	325	1	12/01/25 17:08	12/03/25 18:27	7440-09-7	
Sodium	<350	ug/L	500	350	1	12/01/25 17:08	12/03/25 18:27	7440-23-5	
Total Hardness by 2340B	<1000	ug/L	5400	1000	1	12/01/25 17:08	12/03/25 18:27		

200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay									
Calcium, Dissolved	<114	ug/L	500	114	1	12/01/25 17:07	12/02/25 15:18	7440-70-2	
Magnesium, Dissolved	<182	ug/L	1000	182	1	12/01/25 17:07	12/02/25 15:18	7439-95-4	
Potassium, Dissolved	<325	ug/L	1000	325	1	12/01/25 17:07	12/02/25 15:18	7440-09-7	
Sodium, Dissolved	485J	ug/L	500	350	1	12/01/25 17:07	12/02/25 15:18	7440-23-5	

2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<5.0	mg/L	10.0	5.0	1		11/21/25 13:23		
Alkalinity,Bicarbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 13:23		
Alkalinity,Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		11/21/25 13:23		

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ANALYTICAL RESULTS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample: AE82972(EB3)	Lab ID: 40305141009	Collected: 11/10/25 13:43	Received: 11/15/25 08:40	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Green Bay								
Total Dissolved Solids	<8.7	mg/L	20.0	8.7	1		11/17/25 16:31		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	<1.2	mg/L	4.0	1.2	2		12/08/25 17:32	16887-00-6	D3
Fluoride	<0.19	mg/L	0.63	0.19	2		12/08/25 17:32	16984-48-8	D3
Sulfate	<0.89	mg/L	4.0	0.89	2		12/08/25 17:32	14808-79-8	D3
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	<1.2	mg/L	4.0	1.2	2		12/05/25 21:19	16887-00-6	D3
Sulfate, Dissolved	<0.89	mg/L	4.0	0.89	2		12/05/25 21:19	14808-79-8	D3

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QUALITY CONTROL DATA

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

QC Batch	523421	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

METHOD BLANK: 2985247 Matrix: Water

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	<17.3	40.0	12/03/25 18:12	
Calcium	ug/L	<114	500	12/03/25 18:12	
Magnesium	ug/L	<182	1000	12/03/25 18:12	
Potassium	ug/L	<325	1000	12/03/25 18:12	
Sodium	ug/L	<350	500	12/03/25 18:12	
Total Hardness by 2340B	ug/L	<1000	5400	12/03/25 18:12	

LABORATORY CONTROL SAMPLE: 2985248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	250	257	103	85-115	
Calcium	ug/L	10000	9990	100	85-115	
Magnesium	ug/L	10000	10000	100	85-115	
Potassium	ug/L	10000	9980	100	85-115	
Sodium	ug/L	10000	9960	100	85-115	
Total Hardness by 2340B	ug/L		66100			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985249 2985250

Parameter	Units	40305141001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Boron	ug/L	442	250	250	699	719	103	111	70-130	3	20	
Calcium	ug/L	49400	10000	10000	59000	60500	97	111	70-130	2	20	
Magnesium	ug/L	22300	10000	10000	32100	32800	98	105	70-130	2	20	
Potassium	ug/L	4110	10000	10000	14100	14300	100	102	70-130	1	20	
Sodium	ug/L	75500	10000	10000	84800	86900	93	114	70-130	2	20	
Total Hardness by 2340B	ug/L	215000			280000	286000				2		

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QUALITY CONTROL DATA

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

QC Batch	523420	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 MET Dissolved
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

METHOD BLANK: 2985243 Matrix: Water

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	<114	500	12/03/25 17:59	
Magnesium, Dissolved	ug/L	<182	1000	12/03/25 17:59	
Potassium, Dissolved	ug/L	<325	1000	12/03/25 17:59	
Sodium, Dissolved	ug/L	<350	500	12/03/25 17:59	

LABORATORY CONTROL SAMPLE: 2985244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9800	98	85-115	
Magnesium, Dissolved	ug/L	10000	9880	99	85-115	
Potassium, Dissolved	ug/L	10000	10300	103	85-115	
Sodium, Dissolved	ug/L	10000	10400	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985245 2985246

Parameter	Units	40305141001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Calcium, Dissolved	ug/L	51400	10000	10000	59700	61500	83	101	70-130	3	20	
Magnesium, Dissolved	ug/L	22300	10000	10000	31200	32000	89	97	70-130	3	20	
Potassium, Dissolved	ug/L	3590	10000	10000	13600	13700	100	102	70-130	1	20	
Sodium, Dissolved	ug/L	77500	10000	10000	84800	87100	73	96	70-130	3	20	

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QUALITY CONTROL DATA

Project: Q-6005-001005 CALEDONIA SEMI-A

Pace Project No.: 40305141

QC Batch 522855

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

METHOD BLANK: 2982257

Matrix: Water

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<5.0	10.0	11/21/25 11:26	

LABORATORY CONTROL SAMPLE: 2982258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	200	213	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2982259 2982260

Parameter	Units	40305141001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	163	200	200	365	362	101	100	80-120	1	20	

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QUALITY CONTROL DATA

Project: Q-6005-001005 CALEDONIA SEMI-A

Pace Project No.: 40305141

QC Batch: 522189

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

METHOD BLANK: 2979130

Matrix: Water

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	11/17/25 16:24	

LABORATORY CONTROL SAMPLE: 2979131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	552	566	103	80-120	

SAMPLE DUPLICATE: 2979132

Parameter	Units	40304956001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	674	684	1	10	

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QUALITY CONTROL DATA

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

QC Batch	523953	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions,Dissolved
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

METHOD BLANK: 2987720 Matrix: Water

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	12/05/25 18:36	
Sulfate	mg/L	<0.44	2.0	12/05/25 18:36	

LABORATORY CONTROL SAMPLE: 2987721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.8	109	90-110	
Sulfate	mg/L	20	21.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987722 2987723

Parameter	Units	40305141001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	17.1	100	100	129	129	112	112	90-110	0	15	M0
Sulfate	mg/L	192	200	200	420	401	114	104	90-110	5	15	M0

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QUALITY CONTROL DATA

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

QC Batch	523699	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

METHOD BLANK: 2986310 Matrix: Water

Associated Lab Samples: 40305141001, 40305141002, 40305141003, 40305141004, 40305141005, 40305141006, 40305141007, 40305141008, 40305141009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	12/05/25 12:34	
Fluoride	mg/L	<0.095	0.32	12/05/25 12:34	
Sulfate	mg/L	<0.44	2.0	12/05/25 12:34	

LABORATORY CONTROL SAMPLE: 2986311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	105	90-110	
Fluoride	mg/L	2	2.1	103	90-110	
Sulfate	mg/L	20	20.4	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986314 2986315

Parameter	Units	40305141004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	5.4	40	40	50.1	51.9	112	116	90-110	3	15	M0
Fluoride	mg/L	1.1	4	4	5.4	5.5	107	110	90-110	3	15	
Sulfate	mg/L	32.8	40	40	76.7	78.2	110	113	90-110	2	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986316 2986317

Parameter	Units	40305141007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	6.0J	100	100	119	118	113	112	90-110	1	15	M0
Fluoride	mg/L	1.2J	10	10	12.1	11.8	109	106	90-110	2	15	
Sulfate	mg/L	82.5	100	100	192	192	110	109	90-110	0	15	

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

REPORT OF LABORATORY ANALYSIS

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Date: 01/08/2026 09:33 AM



ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample:	AE82969(W49)	Lab ID:	40305141006	Collected:	11/10/25 09:21	Received:	11/15/25 08:40	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.127 ± 0.352 (0.684)		pCi/L	12/08/25 13:03	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.638 ± 0.403 (0.749)		pCi/L	12/05/25 15:19	15262-20-1			
		C:77% T:80%							

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Sample:	AE82970(W50)	Lab ID:	40305141007	Collected:	11/10/25 11:35	Received:	11/15/25 08:40	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.000 ± 0.320 (0.718)		pCi/L	12/08/25 13:15	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.551 ± 0.414 (0.806)		pCi/L	12/05/25 15:19	15262-20-1			
		C:75% T:81%							

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Q-6005-001005 CALEDONIA SEMI-A

Pace Project No.: 40305141

QC Batch 784879

QC Batch Method: EPA 903.1

Analysis Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40305141006, 40305141007

METHOD BLANK: 3829160

Matrix: Water

Associated Lab Samples: 40305141006, 40305141007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0507 ± 0.298 (0.665) C:NA T:83%	pCi/L	12/08/25 13:03	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Q-6005-001005 CALEDONIA SEMI-A

Pace Project No.: 40305141

QC Batch 784880

QC Batch Method: EPA 904.0

Analysis Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40305141006, 40305141007

METHOD BLANK: 3829161

Matrix: Water

Associated Lab Samples: 40305141006, 40305141007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.784 ± 0.433 (0.768) C:79% T:76%	pCi/L	12/05/25 15:17	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

DEFINITIONS

- Act - Activity
- Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
- (MDC) - Minimum Detectable Concentration
- Trac - Tracer Recovery (%)
- Carr - Carrier Recovery (%)
- 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 - The reported result is an estimated value.
- 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.
- DL - Adjusted Method Detection Limit.
- 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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.
- N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
- Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
- TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D9 Dissolved result is greater than the total. Data is within laboratory control limits.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40305141001	AE82964(W08D)	EPA 200.7	523421	EPA 200.7	523488
40305141002	AE82965(W09D)	EPA 200.7	523421	EPA 200.7	523488
40305141003	AE82966(W10D)	EPA 200.7	523421	EPA 200.7	523488
40305141004	AE82967(W46D)	EPA 200.7	523421	EPA 200.7	523488
40305141005	AE82968(W48)	EPA 200.7	523421	EPA 200.7	523488
40305141006	AE82969(W49)	EPA 200.7	523421	EPA 200.7	523488
40305141007	AE82970(W50)	EPA 200.7	523421	EPA 200.7	523488
40305141008	AE82971(QC01)	EPA 200.7	523421	EPA 200.7	523488
40305141009	AE82972(EB3)	EPA 200.7	523421	EPA 200.7	523488
40305141001	AE82964(W08D)	EPA 200.7	523420	EPA 200.7	523493
40305141002	AE82965(W09D)	EPA 200.7	523420	EPA 200.7	523493
40305141003	AE82966(W10D)	EPA 200.7	523420	EPA 200.7	523493
40305141004	AE82967(W46D)	EPA 200.7	523420	EPA 200.7	523493
40305141005	AE82968(W48)	EPA 200.7	523420	EPA 200.7	523493
40305141006	AE82969(W49)	EPA 200.7	523420	EPA 200.7	523493
40305141007	AE82970(W50)	EPA 200.7	523420	EPA 200.7	523493
40305141008	AE82971(QC01)	EPA 200.7	523420	EPA 200.7	523493
40305141009	AE82972(EB3)	EPA 200.7	523420	EPA 200.7	523493
40305141006	AE82969(W49)	EPA 903.1	784879		
40305141007	AE82970(W50)	EPA 903.1	784879		
40305141006	AE82969(W49)	EPA 904.0	784880		
40305141007	AE82970(W50)	EPA 904.0	784880		
40305141001	AE82964(W08D)	SM 2320B	522855		
40305141002	AE82965(W09D)	SM 2320B	522855		
40305141003	AE82966(W10D)	SM 2320B	522855		
40305141004	AE82967(W46D)	SM 2320B	522855		
40305141005	AE82968(W48)	SM 2320B	522855		
40305141006	AE82969(W49)	SM 2320B	522855		
40305141007	AE82970(W50)	SM 2320B	522855		
40305141008	AE82971(QC01)	SM 2320B	522855		
40305141009	AE82972(EB3)	SM 2320B	522855		
40305141001	AE82964(W08D)	SM 2540C	522189		
40305141002	AE82965(W09D)	SM 2540C	522189		
40305141003	AE82966(W10D)	SM 2540C	522189		
40305141004	AE82967(W46D)	SM 2540C	522189		
40305141005	AE82968(W48)	SM 2540C	522189		
40305141006	AE82969(W49)	SM 2540C	522189		
40305141007	AE82970(W50)	SM 2540C	522189		
40305141008	AE82971(QC01)	SM 2540C	522189		
40305141009	AE82972(EB3)	SM 2540C	522189		
40305141001	AE82964(W08D)	EPA 300.0	523699		
40305141002	AE82965(W09D)	EPA 300.0	523699		
40305141003	AE82966(W10D)	EPA 300.0	523699		
40305141004	AE82967(W46D)	EPA 300.0	523699		
40305141005	AE82968(W48)	EPA 300.0	523699		
40305141006	AE82969(W49)	EPA 300.0	523699		
40305141007	AE82970(W50)	EPA 300.0	523699		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Q-6005-001005 CALEDONIA SEMI-A
 Pace Project No.: 40305141

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40305141008	AE82971(QC01)	EPA 300.0	523699		
40305141009	AE82972(EB3)	EPA 300.0	523699		
40305141001	AE82964(W08D)	EPA 300.0	523953		
40305141002	AE82965(W09D)	EPA 300.0	523953		
40305141003	AE82966(W10D)	EPA 300.0	523953		
40305141004	AE82967(W46D)	EPA 300.0	523953		
40305141005	AE82968(W48)	EPA 300.0	523953		
40305141006	AE82969(W49)	EPA 300.0	523953		
40305141007	AE82970(W50)	EPA 300.0	523953		
40305141008	AE82971(QC01)	EPA 300.0	523953		
40305141009	AE82972(EB3)	EPA 300.0	523953		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: We Energies

WO#: **40305141**

Courier: CS Logistics Fed Ex Speedee UPS Purple Mountain
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 145, 145 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr: 0.5, 0.0, 0.0

Temp Blank Present: yes no N/A 11/19/2025 Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 11/15/2025 Initials: MKS
 Labeled By Initials: EL

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

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

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

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

APPENDIX D

**2025 LEACHATE PIPE CLEANING
AND INSPECTION REPORT
[PER NR 506.20(3)(D)]**

WE ENERGIES ASH LANDFILLS

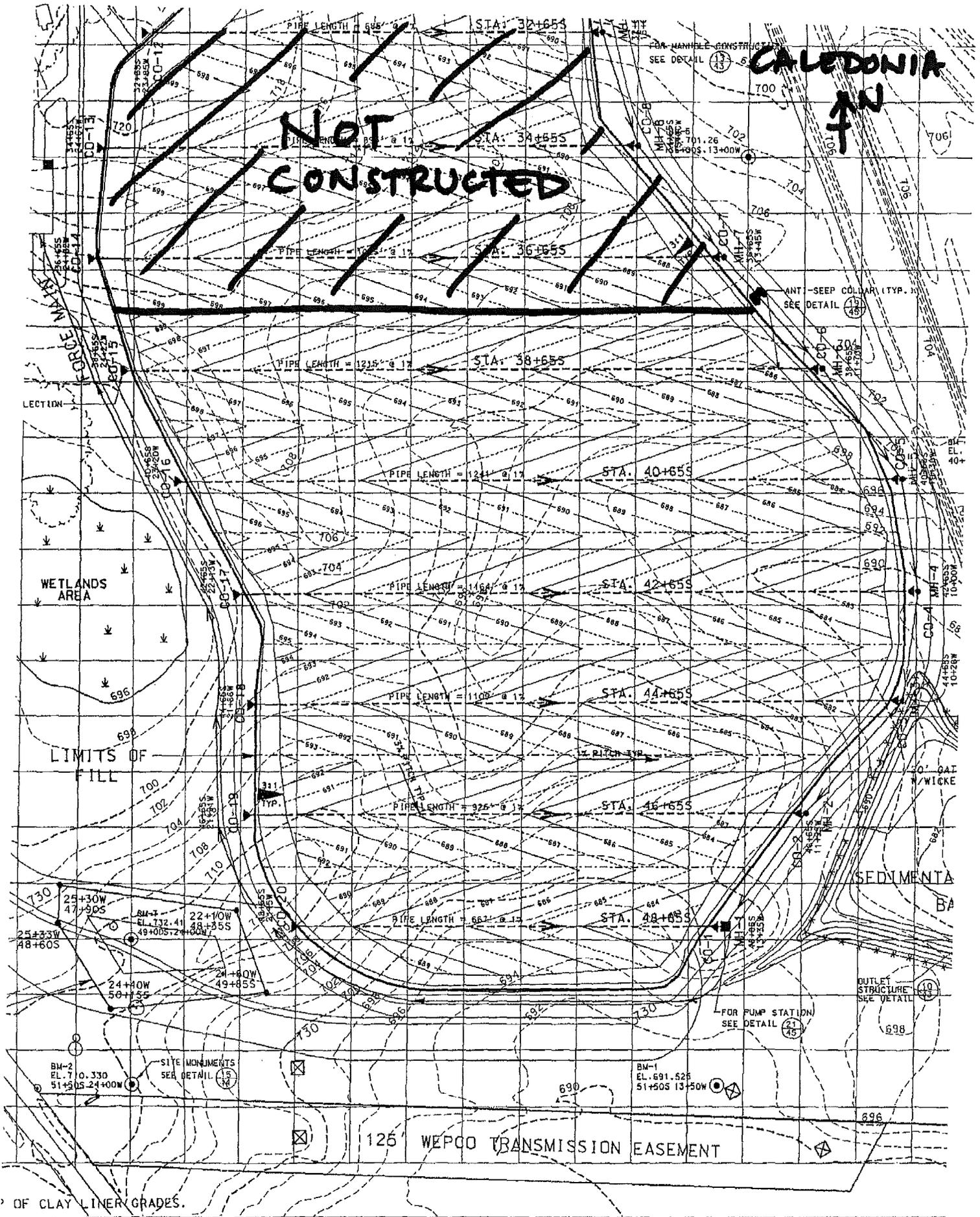
LEACHATE LINE JETTING

LOCATION: CALEDONIA, OAK CREEK SOUTH,
PLEASANT PRAIRIE POWER PLANT, SYSTEM CONTROL & HWY 32

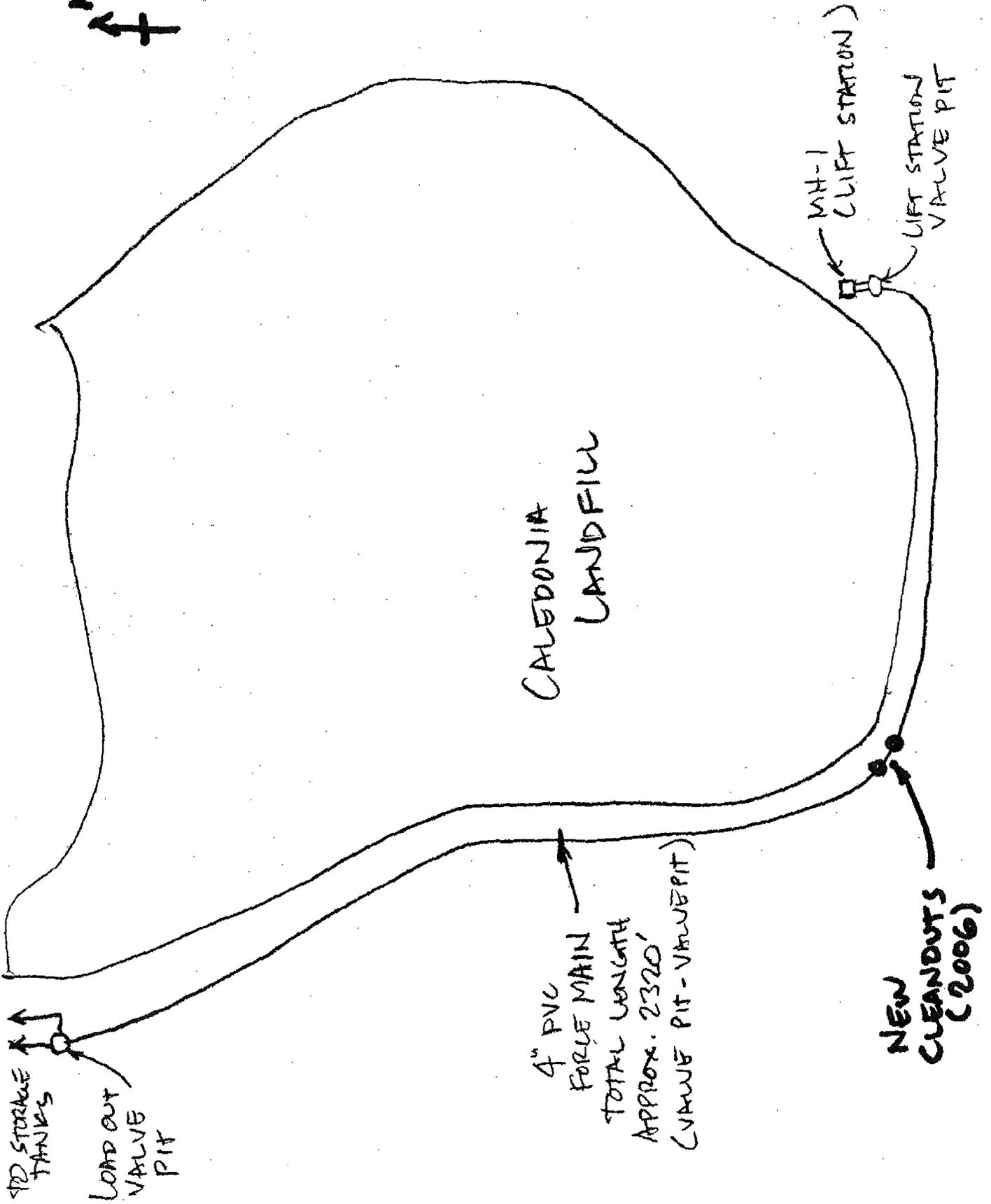
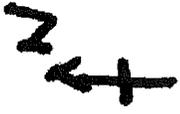
JETTING FOR: AW OAKES & SON

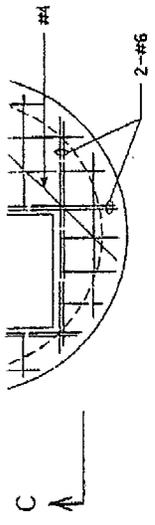


CALEDONIA ASH LANDFILL

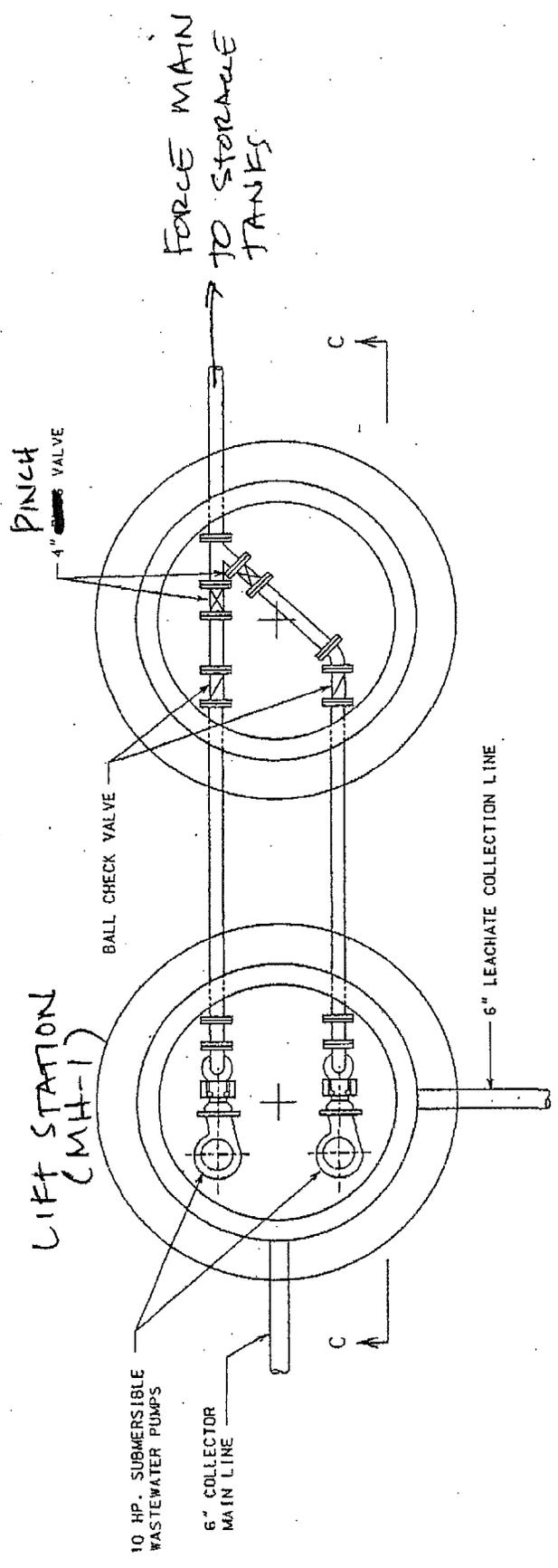


OF CLAY LINER GRADES.

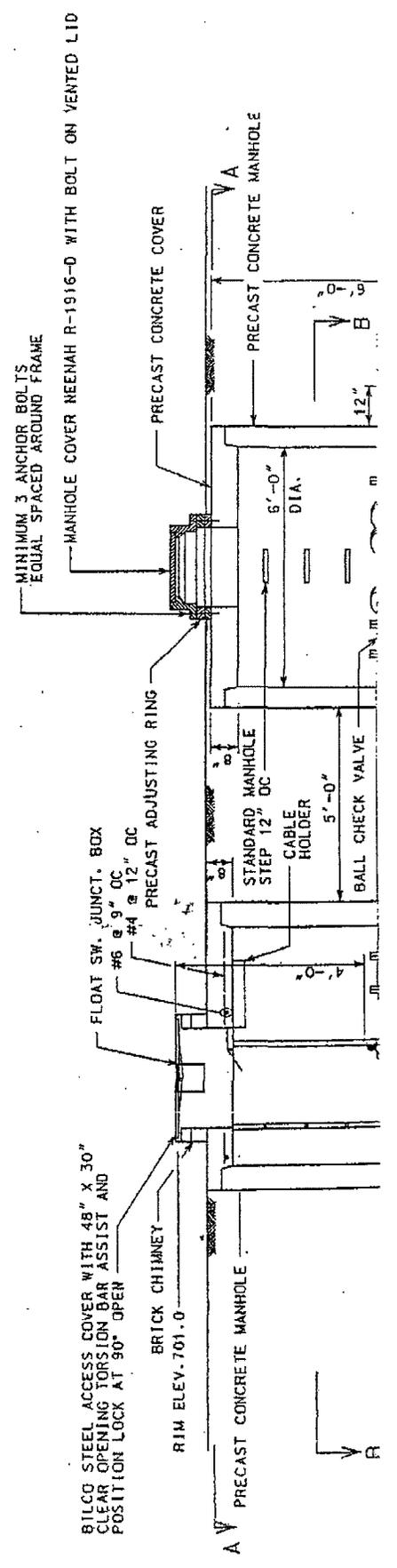




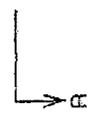
SECTION A-A

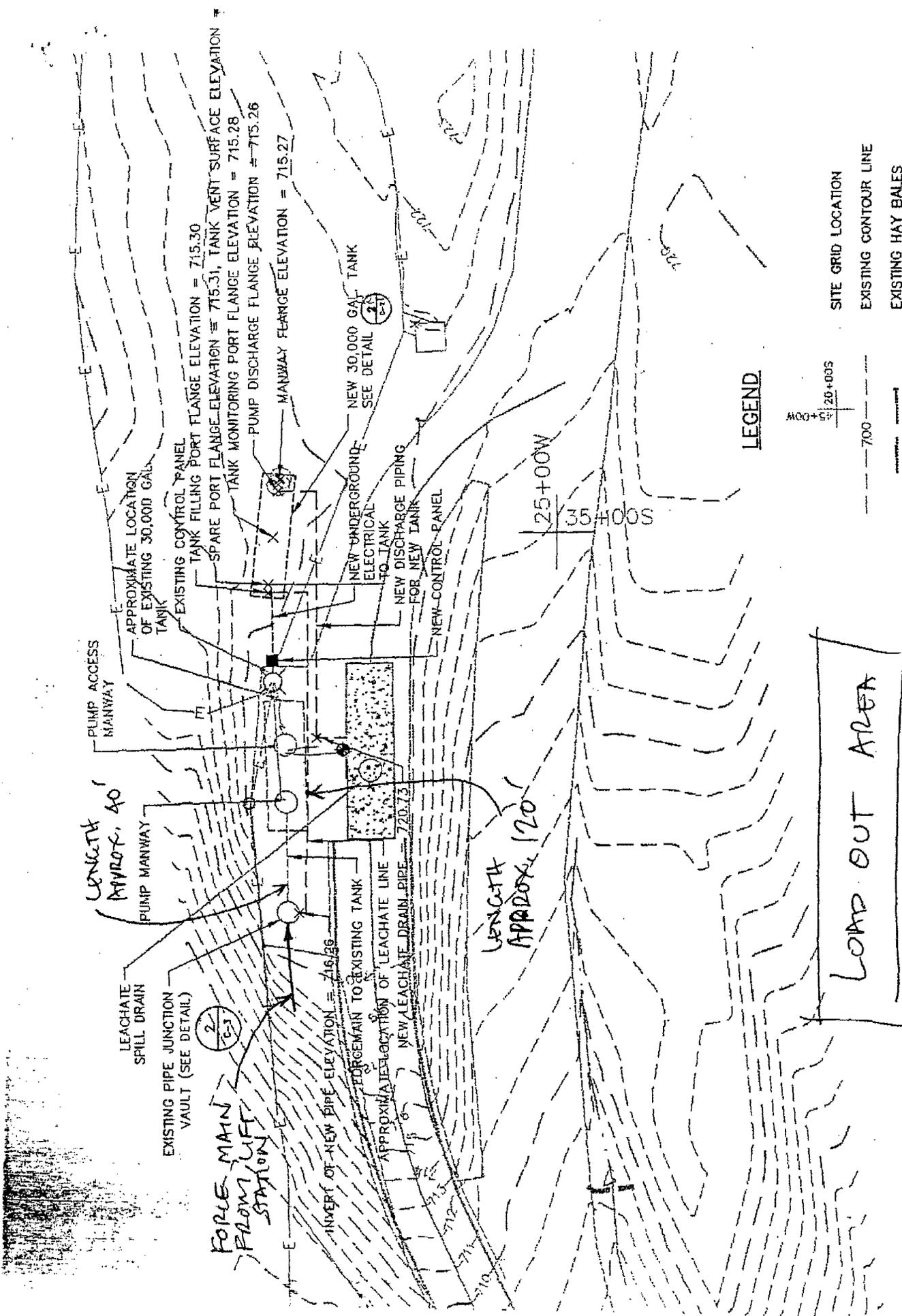


SECTION B-B



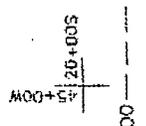
8" CO STEEL ACCESS COVER WITH 48" X 30" CLEAR OPENING TORSION BAR ASSIST AND POSITION LOCK AT 90° OPEN



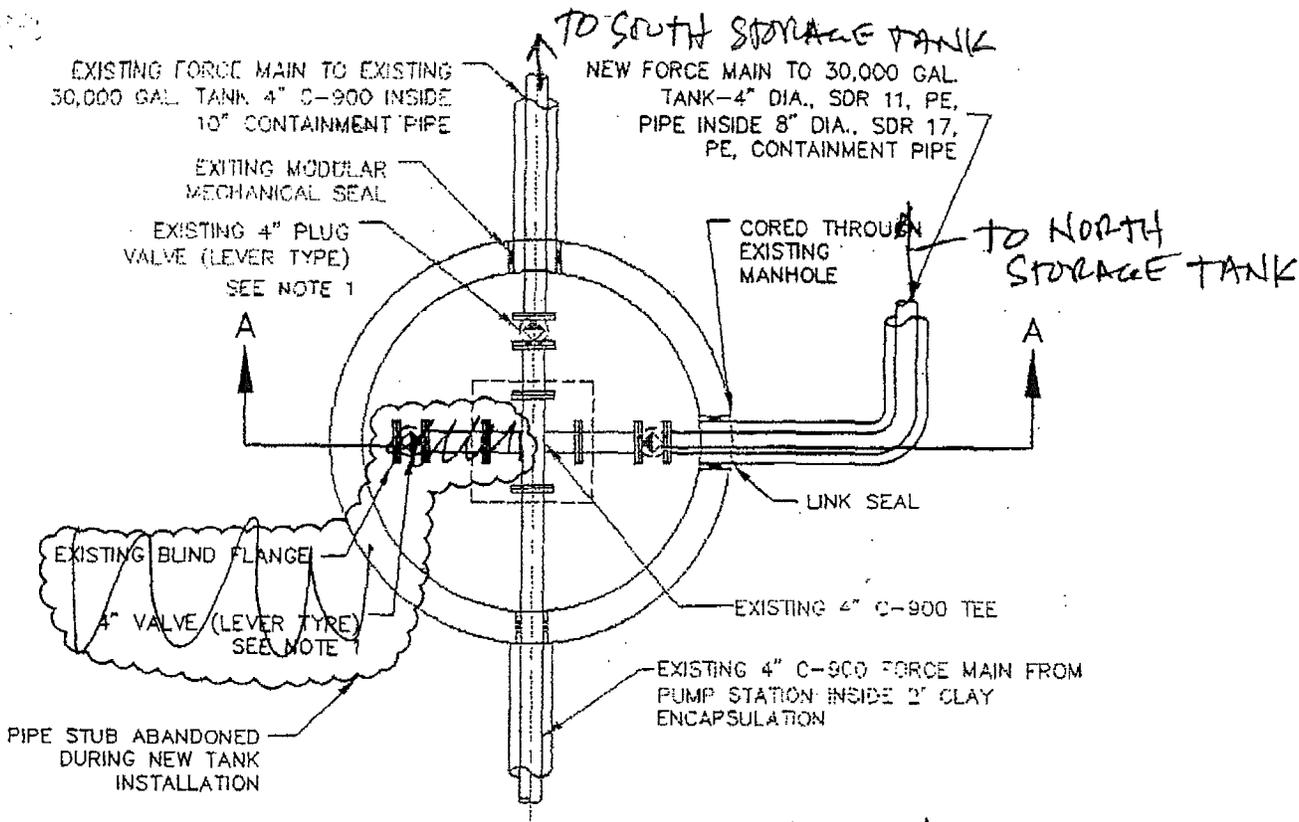


LEGEND

- SITE GRID LOCATION
- - - EXISTING CONTOUR LINE
- - - EXISTING HAY BALES
- - - ELECTRICAL LINE
- - - EXISTING FENCE LINE
- - - EXISTING GRAVEL ROAD



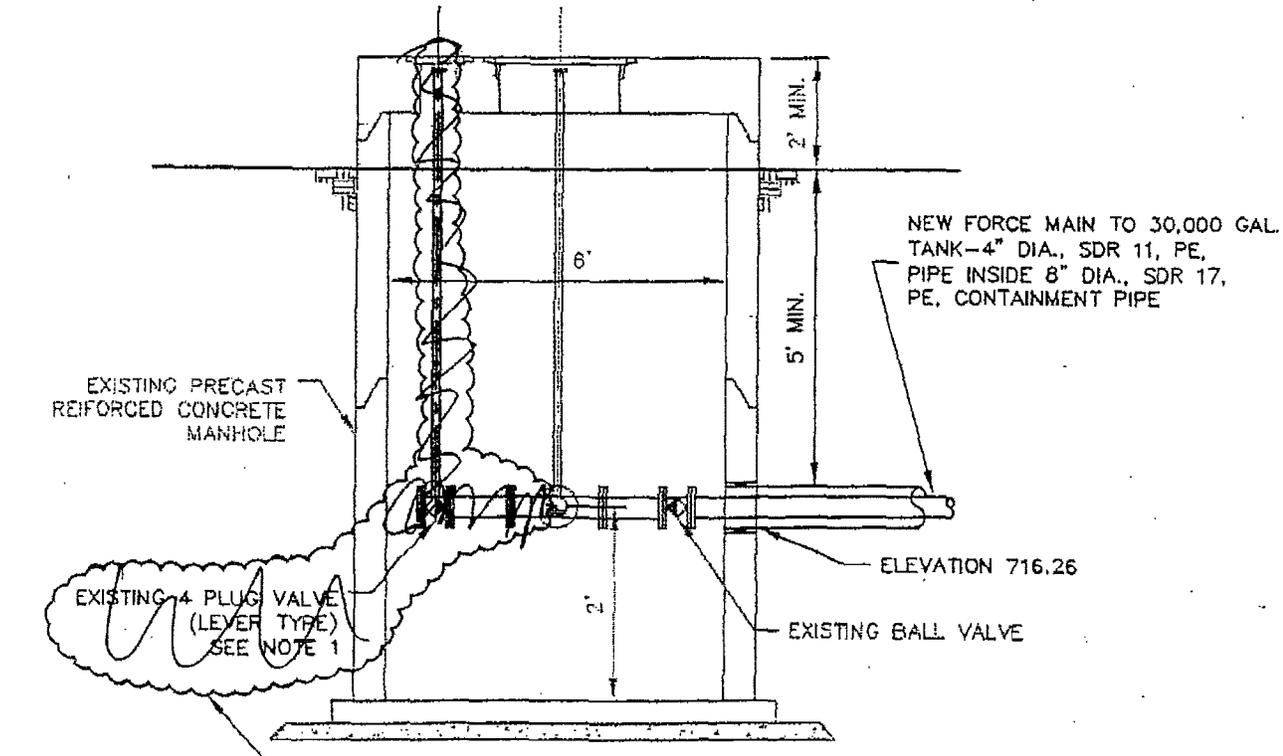
LOAD OUT AREA



PLAN



LOAD OUT
VALUE PIT



SECTION A-A

PIPE STUB ABANDONED DURING NEW TANK INSTALLATION

NOTE 1: REMOVED EXISTING PLUG VALVE AND REPLACED WITH

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: 10/22/2025 THROUGH 11/14/2025

Description of water jet cleaning system: _____

2026 VACTOR 2100i

ENZ ROTO PULSE NOZZLE – 2,500 PSI AT 80 GPM

800' OF 1" JET HOSE / BRAND NEW 2025

USED 292,000 GALLONS OF WATER TO JET LANDFILL

FOREMAN: GREG HEALY

LABORER: RUVISEL CORTEZ

Pipe cleaned (check appropriate areas):

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

Problems encountered: Yes _____ No X

Description of problems:

Repairs performed: Yes _____ No X

Description of repairs:

Signed: _____

Return completed form to ENV – Eric Kovatch, A231

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 INC

Date Work was Performed: 11/14/2025

Test Pressure: 4.0

Procedure: The force main for the collection system was pressurized to 50 psig and held at this pressure for 75 minutes.

System pressure was maintained: X Yes No

Problems encountered: Yes X No

Description of corrections made if any problems were encountered:

USED ALTERNATIVE TEST METHOD – HELD 4.0 PSI FOR 15 MINUTES

Signed: _____

Return completed form to ENV – Eric Kovatch, A231

GREAT LAKES TV SEAL, INC.
 3600 Kewaunee Road Green Bay, WI 54311
 920-863-3663 | www.greatlakestvseal.com



CLEANING REPORT

Date 10/22/2025

Street / Location CALEDONIA ASH LANDFILL

System Owner WE ENERGIES

Contractor AW OAKES & SON

Leachate Storm

Upstream Manhole	Downstream Manhole	Pipe Size (in)	Pipe Length (ft)	Easement Machine Used?		Remarks
				Y	N	
C/O 20	MH 1	6	667		X	DID NOT JET / C/O 20 BURIED
C/O 19	MH 2	6	926		X	JETTED 350' / HOSE WOULD NOT ADVANCE
C/O 18	MH 3	6	1,109		X	JETTED 450' / HOSE WOULD NOT ADVANCE
C/O 17	MH 4	6	1,164		X	JETTED 450' / HOSE WOULD NOT ADVANCE
C/O 16	MH 5	6	1,241		X	JETTED 500' / HOSE WOULD NOT ADVANCE
C/O 15	MH 6	6	1,215		X	JETTED 400' / HOSE WOULD NOT ADVANCE
C/O 15	MH 7	6	1,025		X	JETTED 500' / HOSE WOULD NOT ADVANCE
MH 7	C/O 14	6	1,025		X	JETTED 600' / JETTED TWICE

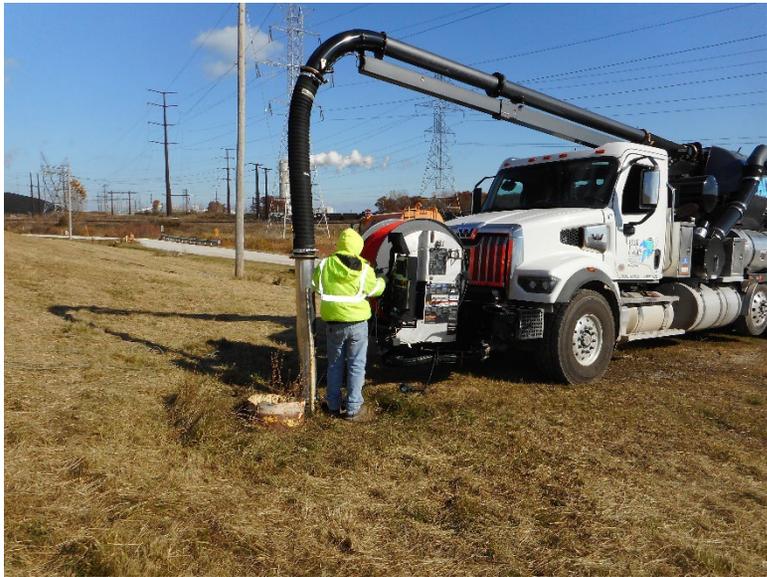
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