

## **1.0 INTRODUCTION**

This annual inspection report has been prepared to meet the requirements of 40 CFR 257.84(b).

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 ANNUAL SITE INSPECTION**

The annual inspection by a qualified professional engineer to meet the requirements of 40 CFR 257.84(b) was conducted by Timothy C. Muehlfeld on November 19, 2018. The inspection form and photos are attached and the inspection results are summarized below.

## **3.0 INSPECTION RESULTS**

### Review of Available Information:

Review of the weekly inspections by a qualified person was conducted as part of the annual site inspection. There were no significant issues identified during the weekly inspections and action items were addressed in a timely manner. The weekly inspections were complete and are included in the operating record. This inspection also included a review of the previous annual inspection report contained in the operating record.

### Discussion of Visual Inspection:

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 list station, the leachate storage and load-out controls, the leachate load-out pad, the site access road and the cell entrance.

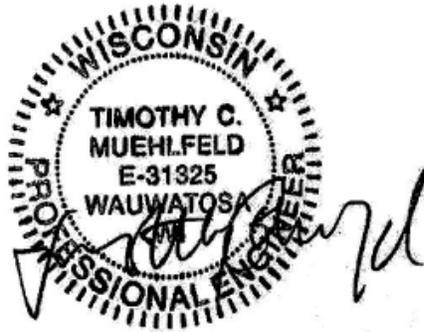
There were no signs or evidence of any distress or malfunction of the CCR unit, or any conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit. The perimeter berms and waste slopes did not show any evidence of structural weakness or instability. The leachate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

**4.0 APPROXIMATE VOLUME OF CCR CONTAINED IN THE UNIT**

At the time of the annual inspection, there were approximately 1,630,000 cubic yards of CCR disposed of at the Caledonia Ash Landfill.

**5.0 CERTIFICATION**

I, Timothy C. Muehlfeld, hereby certify that I am a licensed professional engineer in the State of Wisconsin in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. 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 40 CFR 257.84.



## CALEDONIA LANDFILL - WEEKLY INSPECTION & CONDITION SUMMARY

**INSPECTOR:** Tim Muehlfeld  
**INSPECTION DATE/TIME:** 11/19/2018

### WEATHER:

Temperature: 28° F  
 Conditions: Overcast  
 Wind: Mild  
 Wind Direction: SW  
 Precipitation: None

### LEACHATE COLLECTION SYSTEM:

Load-out Facility:	South Tank	North Tank	Lift Station:
High level alarms:	No	No	Pump #1: <span style="background-color: #90EE90;">Green</span>
Low level alarms:	No	No	Pump #2: <span style="background-color: #FF6347;">Red</span>
Leak alarms:	No	No	Control Panel: <span style="background-color: #90EE90;">Green</span>
Levels:	Half	3/4	Inlet Pipes: Submerged
Pump:	<span style="background-color: #90EE90;">Green</span>	<span style="background-color: #FF6347;">Red</span>	Note: Exposed inlet pipes means leachate is free-flowing into lift station
Pad Condition:	Good		

*Visual inspection of all leachate manhole inverts performed on*

*Note: Pumping from north tank. Catching up from weekend.*

### WETLAND CONTROL

Pump station operational :	Yes	Pump Discharge:
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 :		

*Note:*

### STORMWATER / EROSION CONTROLS / SLOPE STABILITY

Landfill Perimeter Ditches: <input checked="" type="checkbox"/>	
Ditch Check Dams : <input checked="" type="checkbox"/>	
Silt Fence @ Soil Stockpiles : <input checked="" type="checkbox"/>	
Diversion Berms, Ditches & Check Dams @ Clay Stockpile : <input checked="" type="checkbox"/>	<b><u>Stability/Erosion of Covers &amp; Waste Slopes:</u></b>
Culverts (Inlets & Outlets) : <input checked="" type="checkbox"/>	Appear stable & no significant erosion: Yes
Comments :	
<i>Is this a special inspection after a rainfall event of greater than 0.5"? No 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 : Yes	
Comments:	Heavy rainfall September & October. Wheel wash drained for freezing temps	

*Note: Check mark indicates that the features are acceptable.*

# 11/19/2018 Caledonia Landfill Inspection



Leachate Load-Out (looking south)



Leachate Load-Out Alarm Panel

## 11/19/2018 Caledonia Landfill Inspection



West Side Final Covers & Surface Water Ditch (looking north)



West Slope Final Cover (looking east)

# 11/19/2018 Caledonia Landfill Inspection



Lift Station Panels



East Slope Final Cover (looking north)

# 11/19/2018 Caledonia Landfill Inspection



Landfill Entrance (looking west)



West End Cell 10 (looking north)

# 11/19/2018 Caledonia Landfill Inspection



Perimeter Cell Berm, Storm Water Ditch and Access Road (looking south)



Access Road Sweeping at Landfill Exit