

## **1.0 INTRODUCTION**

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

The Pleasant Prairie Ash Landfill consists of one cell that went into operation during the 4<sup>th</sup> Quarter of 2014. Under normal conditions and circumstances, nearly 100 percent of CCR generated at the Pleasant Prairie Power Plant (PPPP) is beneficially utilized. Disposal activities at the landfill are generally limited to CCR system cleanings during PPPP outages and other special events.

## **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, 2015. The inspection form and photos are attached and the inspection results are summarized below. This inspection is the first annual inspection under the 40 CFR Part 257 rules, so requirements for comparison to previous annual inspections are not applicable.

## **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.

### Discussion of Visual Inspection:

The annual site inspection included an inspection of the perimeter berms, the waste surfaces and slopes, interior and exterior storm water controls, the leachate collection sump controls, the leachate storage and load-out controls, the leachate load-out pad, the site access road and the cell entrance.

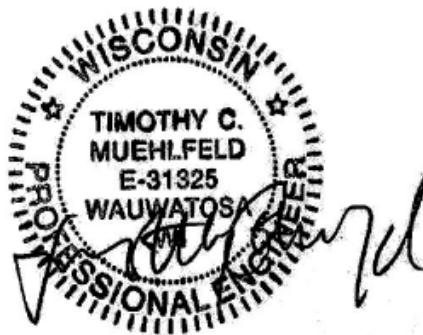
There were no signs or evidence of any distress or malfunction of the CCR unit, or any conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit. The perimeter berms and waste slopes did not show any evidence of structural weakness or instability. The leachate sump and load-out facilities were operational and there was plenty of available space for leachate storage in the sump 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 50,000 cubic yards of CCR disposed of at the Pleasant Prairie 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.



## PLEASANT PRAIRIE ASH LANDFILL - WEEKLY INSPECTION & CONDITION SUMMARY

INSPECTOR: Tim Muehlfeld

INSPECTION DATE/TIME: 11/19/2015 10:30 AM

### WEATHER:

Temperature: 41° F  
 Conditions: Sunny  
 Wind: Strong  
 Wind Direction: W  
 Precipitation: None

### LEACHATE COLLECTION SYSTEM:

#### Load-out Facility:

High level alarms: No  
 Low level alarms: No  
 Leak alarms: No  
 Level Sensor 1: 3.4 ft  
 Ultrasonic Level Volume: 25517 gallons  
 Pump: Available  
 Pad Condition: Good

#### Sump:

Pump #1: Available  
 Pump #2: Available  
 Control Panel: Available  
 Level: 18.0 in

Note: 50" sump level equates to 12" of head on base liner

Comments:

LCS keeping up with recent heavy rains.

### STABILITY/EROSION OF FINAL COVERS & WASTE SLOPES:

Final Covers: NA

Waste Slopes: 

Comments : Cell just opened late-2014. Not much CCR yet. Lots of capacity for disposal and stormwater storage.

**Note: Check mark indicates slope appears stable and no significant erosion.**

### LANDFILL OPERATIONS:

#### Fugitive Dust Control:

Tracking Pads : Cattle Guards : Access Road Clean: Landfill Surfaces Groomed: 

Airbourne Dust Visible: No

Sign of Recent Dust Deposition: No

Comments: Site well groomed, vegetation recently mown. Interior and exterior ditches clear. Ready for winter.

#### Stormwater Management

Exterior Ditches: Interior Ditches: 

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

**11/19/2015 Pleasant Prairie Landfill Inspection**



Intercell (South) Berm (looking east)



Cell Entrance (looking north)

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Cell Entrance (looking east)



Sump Transducer Readings/Control Panel

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Access Road at Riser Vault (looking south)



Leachate Storage Tank and Load-Out (looking southwest)

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Leachate Load-Out (looking north)



Leachate Storage & Load-Out Control Panel

# 11/19/2015 Pleasant Prairie Landfill Inspection



North Perimeter Berm (looking west)



East Perimeter Berm (looking south)