

**ANNUAL FUGITIVE DUST CONTROL REPORT  
EXISTING COAL COMBUSTION RESIDUE (CCR) LANDFILL  
MUSCATINE POWER & WATER**

**REPORT DATE: DECEMBER 19, 2021**

**A. Rule Requirement – Federal CCR Rule §257.80(c)**

Under Federal Rule §257.80(c), Muscatine Power & Water prepared an Annual Coal Combustion Residue (CCR) Fugitive Dust Control Report within 14 months of placing the initial CCR Fugitive Dust Control Plan (2015) in the landfill's operating record. From then on, the schedule for completing a subsequent annual report is one year after the date of completing the previous report. This document comprises Annual CCR Fugitive Dust Control Report for 2021 required under this rule.

The annual fugitive dust control report provides the following items: (1) a description of the actions taken to control CCR fugitive dust, (2) a record of all citizen complaints, and (3) a summary of any corrective measures taken to address dust control, as presented below.

**1) Description of the actions taken to control CCR fugitive dust**

Haul Road: The haul road from the landfill entrance to the active fill area is surfaced with crushed gravel. To mitigate dusting, the road is watered down as needed (i.e., not every time a load of fly ash is taken to the landfill), using tanker trucks fitted with spray nozzles.

During CCR Disposal Operations: The majority of the CCR disposed of at the landfill includes fly ash, flue gas desulfurization material (FGD), and boiler slag. The fly ash material is the most susceptible to dusting due to its fine particle size and dry nature.

The means for controlling fugitive dust during offloading of fly ash in the active landfill cell is a cover and wet suppression procedure. Fly ash is unloaded from a bulk tanker truck through a pipe that discharges the fly ash underneath a tarp. A water truck is used to spray down incidental fugitive dust to augment the tarp control. An irrigation system has also been used to spray water for dust suppression during unloading procedures.

Wet dust suppression is typically not used during freezing temperatures. When temperatures are above freezing, no fly ash is placed at the landfill when wind speeds exceed 25 MPH. When temperatures are below freezing, no fly ash is placed at the landfill when wind speeds exceed 15 MPH.

Active Area: During regular working hours, if weather conditions and areas of the active cell show potential for generating fugitive dust (loose CCR on the surface), an irrigation device (Ag-Rain Model T40A/1320) is used for dust suppression. Water from the site run-off control pond is used for this procedure.

**2) Record of all citizen complaints**

A procedure to log citizen complaints is identified in Section IV of the CCR Fugitive Dust Control Plan, updated December 5, 2018.

One citizen complaint was recorded during this annual reporting period. The attached form, including description of the complaint and resulting corrective action, was entered into the landfill operating record/log.

**3) Summary of any corrective measures**

Summaries of corrective actions taken to address dust control during this reporting period in reference to citizen complaints are included on the attached forms.

A copy of this report will be placed in the operating record as required under §257.105(g)(2).

Under §257.80(d) Muscatine Power & Water intends to comply with the recordkeeping requirements specified in §257.105(g)(2), the notification requirements specified in §257.106(g)(2), and the public internet site requirements specified in §257.107(g)(2).

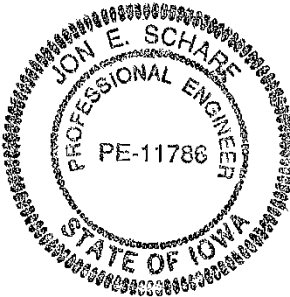
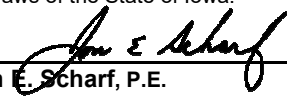
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MUSCATINE POWER & WATER

CERTIFICATION

ANNUAL FUGITIVE DUST CONTROL REPORT

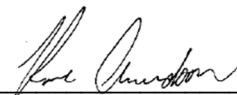
CCR LANDFILL  
Permit No. #70-SDP-06-82P-CCR

MUSCATINE POWER & WATER  
MUSCATINE, IOWA

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
	 Date: <u>12/19/2021</u>
	<b>Jon E. Scharf, P.E.</b>
	License No. <b>11786</b>
	My renewal date is <b>December 31, 2021</b>
Pages or sheets covered by this seal: <b>ENTIRE DOCUMENT</b>	

Prepared By:

Name: Rose Amundson, CGP  
Certified Groundwater Professional

Signature: 

Date: December 19, 2021

HR Green, Inc.  
8710 Earhart Lane SW  
Cedar Rapids, IA 52404  
Phone: (319) 841-4000; Fax: (319) 841-4012

## Written Report for Citizen Complaint - CCR Landfill

**Written Report.** The written report of citizen complaint should contain the following information (Please complete as much as possible):

### Citizen submitting complaint:

Name	<u>Claudia Putnam</u>		
Physical Address	<u>2463 Jasper Ave</u>	City	<u>Letts</u>
Phone Number	<u>319-726-4357</u>	Zip	<u>52754</u>

### Time and Date of complaint:

Time 4:11  AM  PM Date November 8, 2021

### Citizen Complaint: Write a narrative of the complaint

Ms. Putnam called Neal Nelson (Manager- Power Production) to inform him of dust observed coming from the landfill during grooming activities. Dust was reportedly airborne and crossing the property line.

### Investigation of Complaint: Write a narrative of the events leading to the incident

Contact with the MPW contractor at the landfill confirmed the grooming was occurring and the landfill cell was creating dusting at the landfill. MPW instructed the contractor to immediately halt grooming activity

### Actions Taken: Write a narrative of the actions taken to correct future issues.

MPW instructed the contractor to immediately halt grooming activity A meeting is scheduled with the contractor to reiterate the need to control dusting at the landfill in accordance with established expectations. Corrective actions will include retraining regarding the MPW expectations to apply water as needed to prevent dusting incidents and if water or other dust control is not available, to avoid disturbance of ash.

Person Completing Report	<u>Neal Nelson</u>	Date: <u>November 9, 2021</u>
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Send Report to	Phone	Email
<u>MP&amp;W Environmental Department</u>	<u>563-262-3585</u>	<a href="mailto:jbrewster@mpw.org">jbrewster@mpw.org</a>