

# Iowa Department of Natural Resources

## Sanitary Disposal Project New Cell Inspection Checklist

Permit Number – 57-SDP-07-85P	Inspection Date – 7/1/2025
Facility Name – Cedar Rapids Water Pollution Facilities Ash Sanitary Landfill	Weather Conditions – Sunny/75°
Landfill Contact Person - Jason Decker	Cell/Phase Reference Number – East Lagoon

	Yes	No	N/A	Central Office Notes (Include electronic versions of pertinent plan sheets)	Field Office Notes
1. Approved Plans and Specifications for the New Cell Plan Available For Review?	X			Pertinent plan sheets must be reviewed and used during the inspection to perform spot checks on cell construction.	
2. Cell Components					See comments section
a. Groundwater Underdrain System	X			Not required at all sites. Describe general construction of system – i.e. parallel trench or underdrain blanket type of system. May need to refer to plans as this system may not be visible.	
1) Constructed in apparent accordance with plans?	X			Inspect outfall and check for flowing water, at a minimum. Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	
b. Liner System				Describe system	See comments section
1) Compacted Clay and Flexible Membrane Liner (FML)	X			May need to refer to plans as this system may not be visible. For clay component, <u>if possible</u> , measure thickness and inspect surface for evidence of compaction at the liner edge. For FML component, <u>if possible</u> , inspect the surface or edge of the liner at a seam/weld. A geotextile cushion must be placed on top of the FML.	

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2) Compacted Clay or Other Liner Type	X			May need to refer to plans as this system may not be visible.  If possible, measure thickness and inspect surface for evidence of compaction at the liner edge.	
3) Constructed in apparent accordance with plans?	X			Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.  Basal liner and sideslope (abutment) liner may be constructed differently.	
c. Leachate Collection System					See comments section
1) Piping	X			May need to refer to plans as this system may not be visible. Confirm that collection piping to the leachate lagoon, pipe cleanouts, and leachate head piezometers were installed.	
2) Drainage Layer	X			Inspect and measure thickness and describe if it is a "granular" layer, such as sand or tire chips, and/or if it is a geonet (i.e. triplanar geonet sandwiched with geotextile).	
3) Constructed in apparent accordance with plans?	X			Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	
d. Leachate Storage					
1) Constructed in apparent accordance with plans?			X	Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	Leachate is not stored; it is sent to the wastewater treatment plant.
3. Surface Water Run-On Control	X			Is storm water effectively prevented from entering the disposal cell or is sedimentation occurring?	
1) Constructed in apparent accordance with plans?	X			Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	
4. Surface Water Run-Off Control	X			All storm water that comes into contact with waste must be directed to the leachate collection system.	

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1) Constructed in apparent accordance with plans?	X			Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	
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#### Conclusion/Recommendations

The Cedar Rapids Water Pollution Control Facilities is constructing a new ash monofill lagoon to the east of the current concrete lagoon. The cell components, liner systems, and leachate collection system have all been installed as laid out in the design plans. Concrete was being poured in the floor of the lagoon at the time of the inspection (see pictures), and the engineers thought the lagoon would be completed and online around the middle of August.

The south lagoon has already been decommissioned (see pictures) even though the plans stated the lagoon would not be decommissioned until the new lagoon was completed. Mr. Decker stated that there was enough capacity in the current/operational lagoon until October/November, and the engineers stated that Brian Rath (DNR) gave approval to decommission the south lagoon early so the large wastewater expansion project wouldn't be delayed.



Individuals present at inspection:

Jason Decker – Cedar Rapids Environmental and Compliance Program Manager  
 Brian Foredyce – Site Manager (HDR Engineering)  
 Greg Shafer – Design Engineer (HDR Engineering)  
 Drew Routh – Project Engineer – (Bowen Engineering)

**INSPECTOR:**

Jason Gearhart

**DATE:**

7/2/2024