



October 28, 2021

Mr. Mike Smith, P.E.
Iowa Department of Natural Resources
Land Quality Bureau
Wallace State Office Building
502 East 9th Street
Des Moines, Iowa 50319-0034

**Re: Fall 2021 Semi-Annual Inspection Report
Woodbury County Sanitary Landfill (Closed)
Permit No. 97-SDP-2-75C
Project No. WCASW 22001**

Dear Mike:

This brief report documents the semi-annual inspection required by the facility's Iowa Department of Natural Resources (DNR) Sanitary Disposal Project Closure Permit and the Iowa Administrative Code. The inspection was made to evaluate the site's general conformance with the closure permit and the approved plans and specifications. A map of the Woodbury County Sanitary Landfill (Landfill) is attached for reference (Figure 1). A copy of the observation checklist used during the inspection is included in Attachment A. The following was noted during the Fall 2021 semi-annual inspection:

Summary of Inspection Observations

- A few areas of stressed vegetation and bare areas were observed; however, erosion was not present in these areas.
- Other than the areas noted above, the vegetation at the site was well established and in good condition.
- All trees and brush have been removed from last inspection.
- No ponding was present at the time of the inspection and there were no leachate seeps observed.

Summary of Non-Conformance with Permit Conditions

The following item of non-conformance was noted during the inspection:

Items not considered non-compliance but should continue to be monitored included the following:

- Bare areas and the areas of stressed vegetation. Grass seed should be added to these areas to reestablish vegetation.



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General Comments

The observations presented in this report are based upon data obtained from the field observations made at the site, interviews with the site operator, and from information sources discussed in this report. This report provides a snapshot in time of the conditions present at the time of the inspection and does not reflect variations in conditions that may occur throughout the year.

Evora has prepared this report for the exclusive use of our client. This report is meant for the specific application discussed and has been prepared in accordance with generally accepted engineering practices. No warranties, expressly stated or implied, are intended or made.


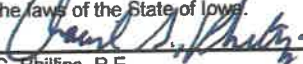
If you have any questions regarding this report, please contact us at (515) 256-8814.

Sincerely,
EVORA CONSULTING


Joe Farris
Client Operations Specialist


David Phillips, P.E.
Project Engineer

Copies: Addressee
Mr. Gary Merkel, Chair for Woodbury County Area Solid Waste Agency
Waste Connections (electronic submittal)
Electronic File

	<p>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.</p> <p></p>	<p>Date: <u>10/20/21</u></p>
	<p>David G. Phillips, P.E. License No. P15541 My license renewal date is December 31, 2022</p>	<p>Pages or sheets covered by this seal: All</p>



Woodbury County Landfill Site Map

Woodbury County Sanitary
Landfill
Pierson, Iowa
Project No: WCASW.21000
Drawing Date: January 2021

Legend

- ▲ Monitoring Well
- ▲ Gas Monitoring Point
- ▲ Groundwater Piezometer
- ▲ Leachate Well
- - - Approximate Waste Boundary
- - - Approximate Property Boundary



Figure 1

ATTACHMENT A
OBSERVATION CHECKLIST

Evora Consulting
1801 Industrial Circle, West Des Moines, Iowa 50265
Sanitary Landfill Inspection

Permit #: 97-SDP-2-75C

Facility Name: <u>Woodbury County Sanitary Landfill</u>	Responsible Official: <u>Gary Merkel</u>
County: <u>Woodbury</u>	Address: <u>2210 Ida Ave, Merville, IA 51039</u>
Facility Operator: <u>Keith Asselmeier</u>	Phone: <u>(712) 873-3837</u>
Address: <u>2210 Ida Ave, Merville, IA 51039</u>	Date Last Inspection: <u>March 18, 2021</u>
Phone: <u>(712) 873-3837</u>	Date This Inspection: <u>September 9, 2021</u>

At the Time of this Inspection:

- Facility personnel present: None
- Wind direction and speed: 2 mph - N
- Surface conditions: Dry
- Ambient temperature: 64° F

Yes – compliance was being achieved; No – compliance was not being achieved,
 N/A – not applicable or not observed; PND – previously noted deficiency (PND).



Observations

Yes	No	N/A	PND	Item	Yes	No	N/A	PND	Item
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Fill Cover: final	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. Special Waste Handling
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Control of Face	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Recycling Activities
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Compaction	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. Operator Certification
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Cover erosion; Ponding	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Staffing
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. Drainage into fill	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Equipment Backup/Maintenance
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Leachate Mgmt. & Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15. Interior Roads
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. Litter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. Perimeter fence, gate, signs, wells
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. Wet Weather Area	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. Photos taken
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Construction & Demolition Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18. Follow-up needed

Comments: The comments below correspond to the numbered observation items listed above.

1. Trees from the prior inspections have been removed and no new growth was seen.
4. The following were noted:
 - Several areas of stressed vegetation were noted; areas to the east and south east were seen. No erosion was seen, but seed should be added this fall/spring to reestablish vegetation.

AUTHENTICATION

INSPECTOR	Joe Farris 	Date: September 9, 2021
REVIEWER	David Phillips, P.E. 	Date: September 9, 2021