

West Des Moines, IA

PROJECT: Adair County LF, FY24 DATE: 4/30/2024
Env. Comp, IA
27223238.24

SUBJECT: Adair County Landfill - 01-SDP- TRANSMITTAL ID: 00004
01-74C - 2024 Spring Inspection
Report

PURPOSE: For your approval VIA: Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Sean Marczewski West Des Moines, IA	SCS Engineers	SMarczewski@scsengineers.com	+1-515-631-6152

TO

NAME	COMPANY	EMAIL	PHONE
brad.davison@dnr.iowa.gov		brad.davison@dnr.iowa.gov	

REMARKS: Good Afternoon:

Please find available for download the 2024 Spring Inspection Report. Let us know if you have any questions or need additional information.

Thanks,

Sean A. Marczewski
Project Professional
SCS Engineers
1690 All-State Court, Suite 100
West Des Moines, Iowa 50265
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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	4/29/2024	Adair County Landfill - 01-SDP-01-74C - 2024 Spring Inspection Report v1.0 4.29.2024.pdf	

COPIES:

Becky Jolly
DJ Luhrs
Christine Collier

(Adair County Sanitary Landfill & Recycling Center
Commission)
(SCS Engineers)

Transmittal

DATE: 4/30/2024
TRANSMITTAL ID: 00004

Sean Marczewski

(SCS Engineers)

April 29, 2024
File No. 27223238.24

Mr. Brad Davidson, Environmental Specialist
Iowa Department of Natural Resources
Solid Waste & Contaminated Sites Section
6200 Park Avenue
Des Moines, Iowa 50321

Subject: Spring 2024 Semi-Annual Inspection Report
Adair County Sanitary Landfill (Closed)
Permit No. 01-SDP-01-74C

Dear Brad,

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

SUMMARY OF INSPECTION OBSERVATIONS

The following items were observed:

- Cap vegetation was well established throughout the Landfill.
- Small cedar saplings were observed sparsely throughout the final cover.
- Several small areas of sparse vegetation were observed throughout the Landfill.
- The barren area noted west of EW-1 during the fall 2023 inspection had been amended with additional topsoil, compacted, and covered with landscape fabric during the winter months. Landfill staff removed the landscape fabric in spring 2024 and seeded the area. Grass had not yet begun to germinate during the time of the inspection.
- No areas of erosion were observed on the cap.
- A shallow channel of erosion was observed on the downhill slope of the Landfill service road during the fall 2023 inspection. Landfill staff added additional gravel to the erosion channel in spring 2024.
- A channel of erosion along the southern edge of the internal service road was observed.
- No areas of ponding were observed.
- No leachate seeps were observed.

SUMMARY OF NON-CONFORMANCE WITH PERMIT CONDITIONS

No items of non-conformance were noted during the inspection.



SUMMARY OF RECOMMENDATIONS

Based on the site inspection performed on April 10, 2024, the following items are recommended:

- Continue to maintain the Landfill cover as necessary including reseeding areas of bare ground and removing saplings as part of ongoing maintenance.
- Monitor the barren area west of EW-1 while vegetation begins to establish and reseed and amend with topsoil as necessary.
- Continue to maintain the service roads and add gravel as needed.
- Fill the channel of erosion along the southern edge of the internal service road with uncompacted soil to meet the specifications of the final cover erosion layer outlined in the approved Construction Observation Report (Doc #52894) and seed.

If you have any questions about this report, please contact us as noted below.

Sincerely,



Sean Marczewski
Project Professional
SCS Engineers


SAM/CLC



Christine L. Collier, P.E.
Senior Project Manager
SCS Engineers

cc: DJ Luhrs, Director, Adair County Sanitary Landfill and Recycling Center

Engineer's Certification

	<p>I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the state of Iowa.</p> <p>Digitally signed by Christine L. Collier Date: 2024.04.29 16:51:00 -05'00'</p>
	<p>Christine L. Collier</p> <p>Date</p>
	<p>My license renewal date is: December 31, 2025</p> <p>Pages or sheets covered by this seal:</p> <p>All</p>



Site Map

Adair County Landfill
Adair, IA
Project No: 27223238.24
Drawing Date: April 2024

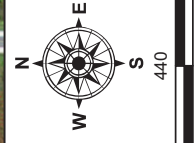


Figure 1

Attachment A

Iowa Department of Natural Resources
Sanitary Disposal Project Inspection Checklist



SCS Engineers
1690 All-State Court, Suite 100
Sanitary Landfill Inspection Checklist

Permit #: 01-SDP-01-74C

Facility Name: <u>Adair County Sanitary Landfill</u>	Responsible Official: <u>DJ Luhrs</u>
County: <u>Adair</u>	Address: <u>1645 State Highway 25, Menlo, IA 50164</u>
Facility Operator: <u>DJ Luhrs</u>	Phone: <u>(641) 745-5886</u>
Address: <u>1645 State Highway 25, Menlo, IA 50164</u>	Date Last Inspection: <u>September 22, 2023</u>
Phone: <u>(641) 743-8343</u>	Date This Inspection: <u>April 10, 2024</u>

At the Time of this Inspection:

- | | |
|---|--|
| <ul style="list-style-type: none">• Facility personnel present: <u>DJ Luhrs</u>• Wind direction and speed: <u>6 mph from S</u> | <ul style="list-style-type: none">• Surface conditions: <u>Dry</u>• Ambient temperature: <u>71°F, Partly Cloudy</u> |
|---|--|

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? (Yes/No)

Comments:

1. Cap vegetation was well established throughout the Landfill, although several small areas of sparse vegetation and bare soil were observed. It appears the bare soil areas are caused by poor soil conditions as there were no signs of erosion or leachate seeps occurring. The barren area noted west of EW-1 during the fall 2023 inspection had been amended with additional topsoil, compacted, and covered with landscape fabric during the winter months. Landfill staff removed the landscape fabric in spring 2024 and seeded the area. Vegetation had not yet begun to germinate during the time of the inspection. Small cedar saplings were observed sparsely throughout the final cover. These saplings should be cut, and stumps treated to prevent regrowth. Evidence of past sapling removal was observed in the form of dead/cut saplings. Discussion with Landfill staff indicated that plans to periodically remove saplings will continue as needed and the areas of sparse vegetation and bare soil will be seeded.
4. A narrow channel of erosion was observed along the southern edge of the internal service road. Repairs will be made to meet the final cover erosion layer specifications outlined in the approved Construction Observation Report (Doc #52894). No other areas of erosion or ponding were observed on the final cover of the Landfill.
6. No leachate seeps were observed.
15. Access roads leading to the Landfill were in good condition. A shallow channel of erosion on the downhill slope of the interior service road was observed during the fall 2023 inspection. Additional gravel was added to the erosion channel in spring 2024. Discussion with Landfill staff indicated that the area will continue to be monitored and repaired as needed.
16. The observed perimeter fence, gates, signs, and wells were in good condition.

AUTHENTICATION

INSPECTOR	Sean Marczewski	Date: 4/16/2024
REVIEWER	Christine Collier, P.E.	Date: 4/26/2024