

December 1, 2025
File No. 27224514.26

Mr. Mike Smith, P.E.
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: Fall 2025 Semi-Annual Inspection Report
Crawford County Area Sanitary Landfill
Permit No. 24-SDP-01-73C

Dear Mike:

This brief report documents the semi-annual inspection required by the Crawford County Area Sanitary Landfill (Landfill) Iowa Department of Natural Resources Sanitary Disposal Project Closure Permit, applicable amendments, and the Iowa Administrative Code. The inspection was conducted by Tim Buelow, P.E. on November 13, 2025, to evaluate the Landfill's general conformance with the closure permit and the approved plans and specifications. A site map of the Landfill is attached for reference (Figure 1). A copy of the observation checklist used during the inspection is included in Attachment A. Please refer to this checklist for specific observations and recommended activities to address areas of concern noted during the inspection.

The observations presented in this report are based upon data obtained from the field observations made at the Landfill, interviews with the manager, and 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.

SCS Engineers 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) 631-6160.

Sincerely,





Timothy C. Buelow, P.E.
VP - Senior Project Advisor
SCS Engineers



Nathan Ohrt
Senior Project Professional
SCS Engineers

TCB/NPO

Copies: Mr. Chuck Ettleman, Crawford County Area Solid Waste Agency Commission
Mr. Travis Fink, Crawford County Transfer Station Manager
Iowa DNR Field Office #4

	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>11/24/2025</u>
	Timothy C. Buelow, P.E.	
	License No. 14445	
	My license renewal date is December 31, 2025.	
Pages or sheets covered by this seal:		
Fall 2025 Crawford County Landfill Inspection Documentation – Cover Letter and Attachment A.		



Path: C:\Users\hmadson\OneDrive - SCS Engineers\Desktop\GIS\MapSite Maps\CRFSD\2022_AWOP\CRFSD_2022_AWOP.aprx
User: hmadson
Data Saved: 9/20/2024 1:45 PM



Current Site Map

Legend	
Monitoring Well	Landfill Gas Well
Groundwater Piezometer	Approximate Waste Boundary
Surface Water Monitoring Point	Approximate Property Boundary
Leachate Piezometer	Stream

Crawford County Area
Sanitary Landfill
Denison, Iowa
Project No: 27224514.26
Drawing Date:
November 2025

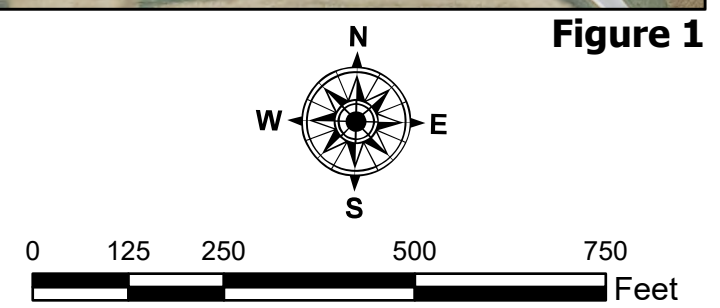


Figure 1

ESRI, COGNIS, USGS, Esri, TomTom, Garmin, FourSquare, FMO, METI, NASA, USGS, USDA NRIS, Iowa State University GIS Facility

ATTACHMENT A
OBSERVATION CHECKLIST

SCS ENGINEERS
1690 All State Court, Suite 100, West Des Moines, Iowa 50265
Sanitary Landfill Inspection

Permit #: 24-SDP-01-73C

Facility Name: <u>Crawford County Area Sanitary Landfill</u>	Responsible Official: <u>Charles Ettleman</u>
County: <u>Crawford</u>	Address: <u>P.O. Box 458, Denison, Iowa 51422</u>
Facility Operator: <u>Travis Fink</u>	Phone: <u>(712) 263-2449</u>
Address: <u>2176 Buffalo Road, Denison, Iowa</u>	Date Last Inspection: <u>March 12, 2025</u>
Phone: <u>(712) 269-0113</u>	Date This Inspection: <u>November 13, 2025</u>

At the Time of this Inspection:

- | | |
|---|--|
| • Facility personnel present: <u>None</u> | • Surface conditions: <u>Vegetation dry, soil moist</u> |
| • Wind direction and speed: <u>S 13 mph, gusts to 26 mph</u> | • Ambient temperature: <u>55° F, Sunny</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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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:

1. Landfill vegetation was well-established, thick and in good condition, except for some small bare areas in both the West and East Fill Areas. The most prominent bare areas were in the West Fill Area south of former leachate extraction well LEW-1 and east of LEW-2. Additional topsoil is needed in these areas. These were areas of previous leachate seeps that have since been drained into the leachate collection system via subsurface piping. There were no indications of leachate seeps in these areas. All but one of the previous bare areas in the East Fill Area in which passive vents were installed were either completely revegetated or partially revegetated. Further filling in of vegetation in these vent areas had occurred since the previous inspection. The southernmost section of the West Fill Area, south of the first terrace, had been mowed, continuing the control of the small ash tree saplings in this area. A portion of the west side of the East Fill Area had been very recently mowed. Mowing in the East Fill Area resumed at the time of the inspection of the West Fill Area, which was performed second. Numerous scattered small trees were present on the northern and eastern slopes of the East Fill Area. The trees were dormant at the time of the inspection. The vegetation in both the East and West Fill Areas consisted almost exclusively of sod-forming grasses throughout. Tree removal is materially complete in the West Fill Area and is in progress in the East Fill Area. Topsoil placement in the West Fill Area and gravel placement in the remaining bare area of the East Fill Area are planned. A completion date of no later than January 31, 2026, weather dependent, for topsoil and gravel placement and substantial completion of tree removal on the cap is recommended. Seeding of the bare areas and areas of new topsoil placement will occur during the spring planting season of 2026, along with continued mowing on at least an annual basis for the West Fill Area. The DNR will be notified by January 31, 2026, or at the completion of maintenance activities, whichever is sooner, to document the completion of the cap maintenance.
4. Erosion impacts were generally not observed in the bare areas noted in Item No. 1, except for very minor localized erosion in the bare area in the northeast corner of the East Fill Area. This appeared unchanged from the spring inspection. There was very minor ponding in the eastern portion of the bottom terrace flow line on the north side of the East Fill Area. The ponding was likely due to recent snow melt from the previous Saturday's rain/snow event and is considered transient.
6. There were no leachate seeps observed during the inspection on the final cover. Previous persistent seeps in the West Fill Area have been eliminated. There was a minor indication of the previous seep near the creek north of the West Fill Area at the time of the inspection. A small area of brown stained vegetation was observed. The pump in the center of the interceptor trench on the north side of the West Fill Area did not appear to be functioning at the time of the inspection. A conversation with the transfer station manager indicated that troubleshooting and repair of the pump is scheduled, with plans for the pump to be operational no later than January 31, 2026. The pump status will be included in the notification to the DNR noted in Item No. 1.
16. The perimeter fence, gate, signs, and wells observed were generally in good condition. Several locks were no longer functional and will be replaced during upcoming field activities by SCS. The lock issues were primarily associated with non-HMSP wells.

SCS ENGINEERS 1690 All State Court, Suite 100, West Des Moines, Iowa 50265 Sanitary Landfill Inspection		
Permit #: 24-SDP-01-73C		
AUTHENTICATION		
INSPECTOR	Timothy C. Buelow, P.E. 	Date: 12/1/2025
REVIEWER	Nathan Ohrt 	Date: 12/1/2025