

West Des Moines, IA

PROJECT: Crawford Co, FY25 Env Comp, IA 27224514.25 DATE: 4/3/2025

SUBJECT: Crawford County Area Sanitary Landfill - 24-SDP-01-73C - Spring 2025 Semi-Annual Inspection Report TRANSMITTAL ID: 00003

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
Mike Smith 502 East 9th Street Des Moines IA 50319-0034 United States	Iowa, State of	mike.smith@dnr.iowa.gov	515-725-8200

REMARKS: Mike -

Please find for your download the Crawford County Area Sanitary Landfill Spring 2025 Semi-Annual Inspection Report. Let us know if you have any questions or comments.

Thanks,

Sean A. Marczewski
Project Professional II
SCS Engineers
1690 All-State Court, Suite 100
West Des Moines, Iowa 50265
712-661-9682 (C)
515-631-6152 (O)
smarczewski@scsengineers.com

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	4/3/2025	Crawford County Area Sanitary Landfill - 24-SDP-01-73C - Spring 2025 Semi-Annual Inspection Report 04.03.2025.pdf	

COPIES:

Transmittal

DATE: 4/3/2025
TRANSMITTAL ID: 00003

Becky Jolly
Charles Ettleman

(Crawford County Area Solid Waste Agency
Commission)

Nathan Ohrt

(SCS Engineers)

Tim Buelow

(SCS Engineers)

Sean Marczewski

(SCS Engineers)

tfink@crawfordcounty.iowa.gov

April 3, 2025
File No. 27224514.25

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

Subject: Spring 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. and Sean Marczewski on March 12, 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.



Mike Smith
April 3, 2025
Page 2

If you have any questions regarding this report, please contact us at (515) 631-6160.

Sincerely,



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





Sean Marczewski
Project Professional II
SCS Engineers

TCB/SAM

Copies:

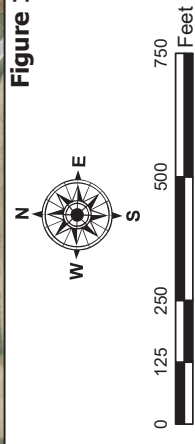
Mr. Chuck Ettleman, Crawford County Area Solid Waste Agency Commission
Mr. Travis Fink, Crawford County Transfer Station Manager
Iowa DNR Field Office #4

	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.
	 _____ Timothy C. Buelow, P.E.
	Date: <u>4/3/2025</u>
	License No. 14445
	My license renewal date is December 31, 2025.
Pages or sheets covered by this seal:	
Spring 2025 Crawford County Landfill Inspection Documentation – Cover Letter and Attachment A.	



Current Site Map

Crawford County Area
Sanitary Landfill
Denison, Iowa
Project No: 27224514.25
Drawing Date: April 2025



SCS ENGINEERS
environmental consultants and contractors

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: Crawford County Area Sanitary Landfill	Responsible Official: Charles Ettleman
County: Crawford	Address: P.O. Box 458, Denison, Iowa 51422
Facility Operator: Travis Fink	Phone: (712) 263-2449
Address: 2176 Buffalo Road, Denison, Iowa	Date Last Inspection: September 11, 2024
Phone: (712) 269-0113	Date This Inspection: March 12, 2025

At the Time of this Inspection:

- | | |
|--|---|
| • Facility personnel present: None | • Surface conditions: Vegetation dry, soil damp to wet |
| • Wind direction and speed: E 5 mph | • Ambient temperature: 40° F, Sunny |

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

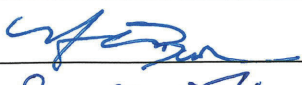

Observations

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 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:

1. Landfill vegetation was very 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 top soil 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. As anticipated, no observable change in vegetation since the fall inspection had occurred due to the generally dormant condition of the vegetation between inspections. The West Fill Area had been mowed (with the exceptions of the terraces), which significantly reduced the tree growth in this MSWLF unit. 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. A completion date of June 1, 2025 for topsoil placement, seeding, and substantial completion of tree removal on the cap is recommended along with continued mowing on at least an annual basis for the West Fill Area.
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 fall inspection. Previous comments regarding bare areas and minor erosion were not observable due to the now-established or establishing vegetation. There was minor ponding in portions of the terrace flow lines on the East Fill Area. The ponding was likely due to recent snow melt from the previous week's storm, a likely still frozen subsurface, and limited evaporation based on the temperatures and dormant state of the vegetation. It was also noted that the landfill surface was actively draining at the time of the inspection as flow was audible in the pipe letdown intakes.
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 also no indication seep near the creek north of the West Fill Area at the time of the inspection. 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 in spring of 2025.
16. The perimeter fence, gate, signs, and wells observed were generally in good condition.

AUTHENTICATION

INSPECTOR	Timothy C. Buelow, P.E. 	Date: 4/3/2025
REVIEWER	Sean Marczewski 	Date: 4/3/2025