

August 20, 2025

MARY WITTRY DIRECTOR
CARROLL COUNTY SOLID WASTE COMMISSION
19111 KITTYHAWK AVE
CARROLL IA 51401

SUBJECT: Carroll County Solid Waste Management Commission
Routine Solid Waste Compliance Inspection, Inspection ID # 100726
Permit No: 14-SDP-01-74

Dear Ms. Wittry:

Enclosed please find a copy of the report resulting from a Department of Natural Resources (DNR) Solid Waste Compliance Inspection at your facility near Carroll, Iowa.

If you have any questions, or feel this report does not represent the conditions at your facility, please contact me via email at wendy.wittrock@dnr.iowa.gov or telephone at (712) 249-9297.

Sincerely,



Wendy S. Wittrock
Environmental Specialist Senior
Field Services and Compliance Bureau

Carroll081925.sw.CarrollCountySolidWasteCommission.RoutineInspection.wittrock

Enclosure Solid Waste Compliance Inspection Report

CC Becky Jolly, Iowa DNR (EMAIL)
Mike Sullivan, DNR (EMAIL)
Facility SW Electronic File, Carroll County

IOWA DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL SERVICES DIVISION

Field Office #4

1401 Sunnyside Lane, Atlantic, IA 50020

Phone: (712) 243-1934

FAX: (712) 243-6251

Inspection Report**INVESTIGATION DATE****CURRENT:** 08/19/2025**LAST:** 12/08/2023

TO: Carroll County Solid Waste Management Commission
19111 Kittyhawk Ave
Carroll, IA 51401

SUBJECT: Carroll County Sanitary Landfill Inspection
Permit #14-SDP-01-74

PERSONS

CONTACTED: Mary Wittry, Landfill Manager

Were deficiencies noted or significant observations made during this inspection?

Yes– See Comments, No– No deficiencies noted, Blank– Not applicable or observed, PND– Previously Noted Deficiency

Observations

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

Permit Review:

The Municipal Solid Waste Landfill permit was issued December 18, 2023 and expires on December 18, 2028.

The scale must be certified annually by Iowa Department of Agriculture and Land Stewardship. The scale has been certified annually as required.

The permitted service area listed in the permit includes: The Cities of Brayton and Exira in Audubon County; all cities and unincorporated areas in Buena Vista County; all cities and unincorporated areas in Carroll County; the cities of Jolley, Lake City, Rinard, and Yetter, and unincorporated areas in Calhoun County; all cities and unincorporated areas in Crawford County; the City of Fonda in Pocahontas County; all cities and unincorporated areas in Shelby County; all cities and unincorporated areas of Guthrie county, excluding the cities of Casey, Menlo and Stuart; the cities of Avoca and Minden in Pottawattamie County; and the City of Adair in Adair County. According to Ms. Wittry, the Carroll County Solid Waste Commission has signed a contract with the City of Ames to start receiving their solid waste in 2027. This contract will bring approximately 70,000 tons of additional waste to the Carroll County Landfill annually. The Carroll County Landfill currently accepts approximately 80,000 tons of waste from their current planning area. Any approved amendments to the plan must be must be incorporated in the permit. As discussed, the permitted service area will need to be updated at that time to include the City of Ames.

The Carroll County Solid Waste Management Commission is an Environmental Management System (EMS) participant. They continue to meet environmental stewardship goals in the six environmental areas; organics management, household hazardous materials collection, water quality improvement, greenhouse gas

reduction, recycling services and environmental education. As an EMS, they are not required to update their comprehensive plan.

According to Ms. Wittry, the facility currently has five (5) certified landfill operators on staff. As required, one certified operator must be on-site during operational hours.

The Carroll County Solid Waste Management Commission must file Quarterly Solid Waste Fee Schedules and Retained Fee Report and remit tonnage fee payments for all wastes disposed of at the sanitary disposal project in accordance with Iowa Code.

The thirty-year closure and post closure period for the Eastern Landfill Area Cap began on October 12, 2007. An environmental covenant signed in November 2021 ended the post closure on this part of the landfill. The closed landfill should be monitored for erosion and repairs made as needed.

The Approved Development and Operations Plan provides for waste to be disposed in Phases 1A, 1B, 2A, 2B, 3, 4A, 4B, 5A, 5B and 6. The facility is currently filling in phase 5B and 6. According to Ms. Wittry, the site will begin vertical expansion when all current phases have met horizontal expansion limits.

According to the permit, the facility shall collect leachate from the leachate control system and properly dispose of by either treatment on site, discharge with an NPDES permit, or discharge to City of Carroll public owned treatment works. As discussed, the facility must measure monthly leachate head levels at piezometers and record volume of leachate collected and transported to treatment works. According to Ms. Wittry, the measurements are collected and provided to their engineer who submits the report. An annual Leachate Control System Performance Evaluation (LCSPE) Report must be submitted to DNR. The permit holder is authorized to operate the leachate control system in accordance with the Leachate Control Plan. Leachate from the system flows via gravity to a lift station on-site where it is pumped through a force main to the City of Carroll's wastewater system. The discharge must comply with the terms and conditions of a local permit issued for the discharge by the POTW. The facility has a current POTW Agreement with the City of Carroll for the disposal of leachate from the landfill. As discussed, biochemical oxygen demand (BOD) has exceeded limits in the past but during the past few dry years, the leachate has slowed down and BOD limits are being met prior to being pumped to the City of Carroll's wastewater system. High BOD limits have been an issue in the past as a Significant Industrial User to the City of Carroll's wastewater treatment plant.

As discussed, the facility must follow the approved Emergency Response and Remedial Action Plan (ERRAP) procedures during all emergencies. The ERRAP should be reviewed annually to include natural disaster events.

Hydrological monitoring System Plan (HMSP) shall include groundwater monitoring points that require routine semiannual groundwater sampling and analysis.

An Annual Water Quality Report (AWQR) summarizing the effects the facility is having on groundwater quality shall be submitted by March 1, annually.

The permit holder shall conduct subsurface gas monitoring in accordance with the approved Landfill Gas Monitoring Plan.

According to DNR records, the permit reporting requirements have been submitted by Foth Infrastructure & Environment, LLC. The facility has submitted the Annual Water Quality Report, System Evaluation Report, Leachate Performance Evaluation Report, Gas Monitoring Report, AWQ MSER LCSPER Gas report and the semi-annual engineering report (SAER). The 2025 Financial Assurance Report, as required in IAC [567] section 113.14, was received and approved.

The permit holder is authorized to operate a satellite temporary storage center for the collection of eligible household hazardous material (HHM) and hazardous wastes from conditionally exempt small quantity generators (CESQG) from the approved service area and in accordance with the approved operations plan. According to Ms. Wittry, the contract with Metro Waste is renewed annually.

The permit holder is authorized to collect, process, grind, or chip trees, limbs, brush, and clean wood wastes free of coatings and preservatives, for the purposes of reuse as bedding material, mulch, soil conditioner, compost bulking material; or other beneficial reuses. The permit holder is authorized to collect grass clippings, leaves and garden wastes for the purposes of land application reuse as mulch, soil conditioner or for other beneficial reuses. The permit holder is authorized to compost yard waste in an area designated for composting activities.

The permit holder is authorized to use a geotextile as an alternative cover material for the active MSWLF unit. The facility is currently using an approved tarp as alternative daily cover.

The permit holder is authorized to accept and temporarily store a maximum of 1500 waste tire equivalents for the purpose of reclamation processing or disposal. According to Ms. Wittry, the facility disposes of all tires through Liberty Tire.

The permit holder is authorized to collect and temporarily store used oil for recycling purposes.

The permit holder is authorized to temporarily store white goods and scrap metal in an area designated by the operator. No discarded appliances may be stored for more than 270 days without being de-manufactured. No scrap metal or discarded appliances may be stored for more than a total of twelve (12) months, including de-manufacturing processing, prior to being recycled/salvaged. According to Ms. Wittry, the facility does not collect white goods due to Quandt Salvage being nearby for those disposal needs.

The permit holder shall quarterly monitor and annually report site methane concentrations.

The vegetative cover shall be reseeded as necessary to maintain good vegetative growth. Any invading vegetation whose root system could damage the compacted soil layer shall be removed or destroyed immediately. As discussed, small trees and woody vegetation must be removed from the final cover to ensure the integrity of the closed landfill cap. The integrity and effectiveness of the final cover must be maintained by making repairs as necessary to correct the effects of settling, subsidence, erosion, or other events.

On-site observations:

Upon arrival, I met with Ms. Wittry to discuss the facility and facility records.

According to Ms. Wittry, the facility is currently filling in phase 5B.

During the inspection, it was noted that the facility utilizes movable trash screens around the working face to prevent windblown litter. These screens are in addition to the permanent fence constructed around the fill area. According to Ms. Wittry, the facility has recently purchased an additional five (5) trash screens in July 2025 to utilize in the fill area.

Ms. Wittry stated that the landfill continues to utilize prisoners from Rockwell City, IA to pick up trash on an as needed basis. At the time of the visit, I documented that the windscreens and permanent fencing were working effectively.

I documented that the facility roads were adequate for access to the fill area of the landfill.

As we discussed, regular maintenance of the site is imperative to reduce the impacts of erosion on the cover. I documented that the closed area of the landfill and the intermediate areas had adequate cover to prevent waste from being exposed.

It was noted that the leachate collection system is televised and cleaned every three (3) years with the most recent being in November 2024. Ms. Wittry stated that maintenance is budgeted and planned to be completed every 3 years. According to Ms. Wittry, additional leachate lines are also televised and cleaned while the contractor is on-site.

REQUIREMENTS

- The facility must abide by all requirements in the operation permit.

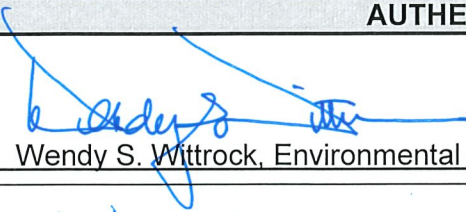

AUTHENTICATION	
 INSPECTOR: <u>Wendy S. Wittrock, Environmental Specialist Senior</u>	DATE: 8/20/2025
 REVIEWER: <u>Kristi Burg, Environmental Specialist Senior</u>	DATE: 8/20/2025



Figure 1: Aerial View of Carroll County Landfill