

January 28, 2025

Sent via Electronic Mail
Receipt Confirmation Requested

DON BALLALATEK
MARSHALL COUNTY SANITARY LANDFILL
2313 MARSHALLTOWN BLVD.
MARSHALLTOWN, IA 50158
dballalatak@marshallcountylandfill.org

SUBJECT: Marshall County Sanitary Landfill Wastewater Pretreatment Compliance Inspection
2313 Marshalltown Blvd, Marshalltown, Iowa
Marshalltown Pretreatment Program Audit

Dear Mr. Ballalatek:

Enclosed is the report of the recent visit to the above facility by Janet Gastineau of the Field Office #5 staff.

We believe you will find the report self-explanatory. We appreciate the cooperation and assistance you and your staff provided during the visit.

You may contact Ms. Gastineau (515/250-4291 or janet.gastineau@dnr.iowa.gov) or this office with any questions or comments.

Sincerely,

Ted Petersen

Digitally signed by Ted Petersen
Date: 2025.01.28 10:02:56
-06'00'

Ted Petersen
Supervisor, Field Office #5

c: Bob Ranson, City of Marshalltown (w/encl. via email: branson@marshalltown-ia.gov)
Lance Tipton, US EPA (w/encl. via email: tipton.lantz@epa.gov)

IOWA DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL SERVICES DIVISION

Field Office #5

6200 Park Avenue STE 200, Des Moines, Iowa 50321

Phone: (515) 725-0268

FAX: (515) 725-8201

REPORT OF INVESTIGATION

INVESTIGATION DATE	CURRENT: 12/20/2024	LAST: 9/30/2024 (landfill inspection)
TO:	Marshall County Sanitary Landfill 2313 Marshalltown Blvd. Marshalltown, IA 50158	
SUBJECT:	Marshall County Sanitary Landfill Wastewater Pretreatment Compliance Inspection	
PERSONS	Don Ballalatek, Landfill Manager	
CONTACTED:	Bob Ranson, Marshalltown Wastewater Superintendent	

Introduction

A wastewater pretreatment visit was made to the Marshall County Sanitary Landfill December 20, 2024, as part of the inspection of the City of Marshalltown's Industrial Pretreatment Program Audit. The visit was made in cooperation with company officials who were contacted by Mr. Ranson prior to the inspection to arrange a scheduled time to view the facility along with the City's Wastewater Superintendent.

The scope of the inspection entailed a review of the City of Marshalltown's files, discussions with responsible company officials, and a walk through of the the wastewater pretreatment portion of the landfill.

General Description

The Marshall County Sanitary Landfill is located southwest of Marshalltown, north of Marshalltown Boulevard. Area A (closure permit #64-SDP-06-92C) is located west of the current working area (Area B). There is a pond between the closed and active areas. The permitted service area includes all cities and the unincorporated area in Marshall County, the cities of Collins and Colo in Story County, and the city of Whitten in Hardin County. A leachate toe drain and collection system is provided for portions of Area A (closed) and Areas B-1, B-2, B-3, but without a synthetic liner or subdrain system. Areas B-4-1 through B-4-7 are Subtitle D compliant with a synthetic liner and subdrain system for leachate collection. Leachate is collected in a two-cell holding lagoon with a synthetic liner. Leachate from the lagoon is pumped through a lift station located on the north side of the smaller, south leachate lagoon to the Marshalltown municipal sanitary sewer. There were multiple feet of freeboard on the lagoon at the time of this inspection.

Industrial User Compliance

The landfill's discharge to the sanitary sewer is regulated by the City of Marshalltown through a Significant Industrial User Wastewater Discharge Permit (No. MCL0123) effective January 1, 2023 through December 31, 2025. Compliance was reviewed from July 2022 through July 2024; during that period no instances of noncompliance with the permit limitations were identified. Furthermore, the City of Marshalltown's records were also complete. Leachate pumping records were also available for review at the landfill.

Landfill staff are responsible for sample collection during each discharge event. There is a magnetic flow meter on the force main discharge from landfill leachate lagoon. A composite sample consisting of six (6) equal grabs evenly spaced over a six-hour period is collected from a designated sample location within the force main discharge to the sanitary sewer. The sample is analyzed by the City of Marshalltown's certified laboratory for BOD₅, total suspended solids, total Kjeldahl nitrogen, oil and grease and heavy metals (cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), and zinc (Zn)). One of the grab samples is also measured by the landfill staff using one of the lab's pH meters. A complete Priority Pollutant Scan is run every five (5) years on a representative sample of the lagoon leachate content. This was last performed in April 2023. The City staff also set up a composite sampler on a discharge annually during their routine inspection.

Summary

The leachate lagoon appeared to be well operated and maintained and Mr. Ballalatek was knowledgeable in the operation of the system. No instances of noncompliance with the City-issued industrial discharge permit were identified by the City.

Photos



grab sample collection point



low monitoring display (0.00 g/h)



valving and lift station



south lagoon cell looking south



north lagoon cell looking northwest

REQUIREMENT

Continue to comply with the permit limits of the Significant Industrial User Wastewater Discharge Permit all times [567 IAC 64.3(1)].

RECOMMENDATION

Calibrate the flow meter according to the manufacturer's recommendations.

AUTHENTICATION

INSPECTOR: Janet Gastineau, Environmental Specialist Senior

Janet Gastineau

Digitally signed by Janet Gastineau
Date: 2025.01.27 16:34:37 -06'00'

DATE: 1/27/2025

REVIEWER: Bryan Bunton, Environmental Specialist Senior

Bryan Bunton

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Date: 2025.01.28 09:46:06 -06'00'

DATE: 1/27/2025