

West Des Moines, IA

PROJECT: Louisa Co, FY25 Env Comp & On-Call, IA 27223216.25 DATE: 12/31/2024
SUBJECT: Louisa County Sanitary Landfill - 58-SDP-01-74C - 2024 Annual Landfill Gas Report TRANSMITTAL ID: 00002
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 Davidson		brad.davison@dnr.iowa.gov	

REMARKS: Brad -

Please find for your download the Louisa County Sanitary Landfill 2024 Annual Landfill Gas Report. Let us know if you have any questions or comments.

Thanks,

Sean A. Marczewski
Project Professional
SCS Engineers
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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	12/31/2024	Louisa County Sanitary Landfill - 58-SDP-01-74C - 2024 Annual Landfill Gas Report 12.31.2024.pdf	

COPIES:

Becky Jolly
Brad Quigley
Joellen Schantz
(Louisa County Regional Solid Waste Agency)
(Louisa County Regional Solid Waste Agency)

Transmittal

DATE: 12/31/2024
TRANSMITTAL ID: 00002

Tim Buelow
Sean Marczewski
ashutt@louisacountyia.gov

(SCS Engineers)
(SCS Engineers)

December 31, 2024
File No. 27223216.25

Mr. Brad Davidson
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2024 Annual Landfill Gas Report
Louisa County Sanitary Landfill
Permit No. 58-SDP-01-74C

Dear Brad:

This letter documents the completion of the Annual Landfill Gas Monitoring since the 2023 Annual Landfill Gas Report as required by 1989 IAC 567-103(455B). In accordance with Permit Amendment #17 dated December 27, 2022 (Doc #105379), monitoring of the vadose zone of the methane monitoring points was performed during the semi-annual methane monitoring events. Attached is Figure 1 showing the monitoring locations along with copies of the recorded data from each methane monitoring event.

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

Sincerely,



Sean Marczewski
Project Professional
SCS Engineers



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

SAM/TCB

Copies: Mr. Brad Quigley, Louisa County Solid Waste Agency
Mr. Adam Shutt, Louisa County Engineer

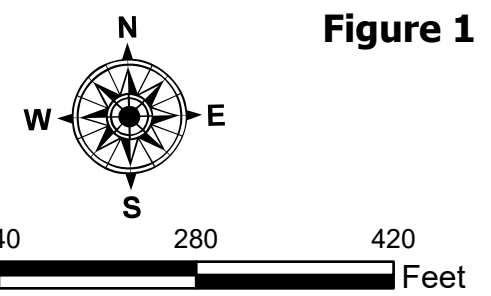




Sample Point	Monitoring Point Location
LFGW-1R	North edge of property line, near culvert.
LFGW-2R	Southwest end of property.
LFGW-3R	Southeast end of property.
LFGW-4R	North of property, in cow pasture.

Methane Monitoring Network

Legend Methane Monitoring Point Landfill Gas Well Monitoring Well Leachate Monitoring Point Surface Water Monitoring Point Culvert Located Waste Boundary Approximate Property Boundary		Louisa County Sanitary Landfill Cairo, Iowa Project No: 27223216.25 Drawing Date: December 2024
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ATTACHMENT A

2024 SEMI-ANNUAL MONITORING FIELD LOGS

Landfill Gas Monitoring Field Data Sheet

Name of Facility: Louisa County Sanitary Landfill

Sampling Equipment Used: RKI GX-2012

Date of Measurement: 6/13/2024

Date Calibrated: 6/13/2024

Time Calibrated: 10:15 AM

Weather Conditions:

Temperature: 84°F

Barometric Pressure: 29.82 in/Hg

Other: _____

Name of Sampler: Tyler Stirling

Sample Point	Methane Concentration (% of LEL)	Exposed Screen (Y/N)	Comments
LFGW-1R	0%	Y	
LFGW-2R	0%	Y	
LFGW-3R	0%	Y	
LFGW-4R	0%	Y	

Landfill Gas Monitoring Field Data Sheet

Name of Facility: Louisa County Sanitary Landfill

Sampling Equipment Used: Multi RAE Lite

Date of Measurement: 11/21/2024

Date Calibrated: 11/21/2024

Time Calibrated: 3:45 PM

Weather Conditions:

Temperature: 42°F

Barometric Pressure: 30.00 in/Hg

Other: Cloudy, 25mph NW

Name of Sampler: Michael Morgan

Sample Point	Methane Concentration (% of LEL)	Exposed Screen (Y/N)	Comments
LFGW-1R	0%	Y	
LFGW-2R	1%	Y	
LFGW-3R	1%	Y	
LFGW-4R	0%	Y	