

December 6, 2024



Mr. Geoffrey Spain
Land Quality Bureau
Iowa Department of Natural Resources
502 East 9th Street
Des Moines, Iowa 50319-0034

RE: Response to May 23, 2024 IDNR Letter (Doc #110143)
Northern Plains Regional Landfill
74-SDP-02-76P

Mr. Spain:

The IDNR Letter dated May 23, 2024 (Doc #110143 – Attachment A) addressed the temporary zinc concentration spike in underdrain GU-2 (Item 4 in the IDNR Letter). This letter is forwarded as a notice that zinc has *not been detected* during the last 4 sample collection episodes (Attachment B). Based on this information the exceedance is not verified.

Respectfully,
HLW ENGINEERING GROUP

A handwritten signature in blue ink, appearing to read "Todd Whipple", is written over a light blue horizontal line.

Todd Whipple, CPG
Project Manager

cc: *Mark White, Public Works Director*
Dan Chism, Landfill Manager
Jim Thiesse, P.E., KCN

Attachment A

IDNR Letter dated May 23, 2024 (Doc #110143)

May 23, 2024

MARK WHITE
PUBLIC WORKS DIRECTOR
CITY OF SPENCER
418 2ND AVENUE WEST
SPENCER IA 51301

**RE: Northern Plains Regional Sanitary Landfill
Permit No. 74-SDP-02-76P
2023 Annual Water Quality Report (Doc [#109004](#))**

Dear Mr. White:

We have reviewed the 2023 Annual Water Quality Report (AWQR), dated January 30, 2024, as submitted on your behalf by HLW Engineering Group. The Iowa Department of Natural Resources (DNR) has the following comments:

2023 AWQR

Sampling Summary

Monitoring is approved for:

1. Background monitoring points MW-11, MW-12, and MW-17.
2. Downgradient monitoring points consist of MW-9, MW-13, MW-18, MW-19, MW-20, MW-21, and GU-1, with MW-8 and MW-14 being points of compliance. GU-3 has been connected to the leachate collection system since November 13, 2015.
3. The following monitoring points are currently in assessment monitoring; MW-3AR, MW-6B, MW-7A, MW-7B, MW-10, MW-15, and MW-16. Permit Special Provision X.4.d. allows for a five-year frequency between full Appendix II parameter testing provided at least two full Appendix II parameter tests have been completed.
4. There was an exceedance of the Prediction Limit for GU-2 for zinc in January. If the exceedance is verified by the end of 2024, then GU-2 must be connected to the leachate collection system per [113.10\(2\)"a"\(3\)](#).

Monitoring Well Maintenance and Performance Reevaluation

The monitoring well maintenance plan is present and future maintenance is planned out. The DNR has no further comments.

Leachate Control System Performance Evaluation Report

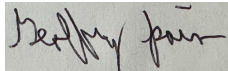
The Northern Plains Sanitary Landfill has been authorized to recirculate leachate over Subtitle D lined areas since April 22, 2015. Four Piezometers exceeded the 12" limit during 2023, but the landfill did not recirculate during those times. The lines are being maintained regularly. The DNR has no further comments.

Gas Monitoring Report

Explosive gas concentrations were either not detected or found below the lower explosive limit (LEL). The DNR has no further comments.

Please contact me at [515-587-7638](tel:515-587-7638) or geoffrey.spain@dnr.iowa.gov if you have any questions or comments.

Sincerely,



Digitally signed by Geoffrey
Spain's Signature
Date: 2024.05.23 14:12:29 -05'00'

Geoffrey Spain
Environmental Engineer

cc: HLW Engineering Group
204 West Broad Street
P.O. Box 314
Story City, IA 50248

DNR Field Office #3, Spencer

Attachment B
Summary of Zinc at GU-2

Date	Well	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
4/7/14	GU-2	zinc	39.9	45.3	---	---	2,000
10/23/14	GU-2	zinc	24.6	45.3	---	---	2,000
4/2/15	GU-2	zinc	<8.0	45.3	---	---	2,000
10/26/15	GU-2	zinc	24.5	45.3	10.491	36.009	2,000
4/1/16	GU-2	zinc	<8.0	45.3	4.000	24.550	2,000
10/19/16	GU-2	zinc	12.9	45.3	2.933	19.767	2,000
4/17/17	GU-2	zinc	10.9	45.3	5.699	20.451	2,000
10/11/17	GU-2	zinc	<8.0	45.3	3.937	11.963	2,000
06/01/18	GU-2	zinc	13.5	45.3	6.549	14.101	2,000
10/3/18	GU-2	zinc	60.6	45.3	0.000	44.662	2,000
1/3/19	GU-2	zinc	15.2	45.3	1.385	45.265	2,000
4/8/19	GU-2	zinc	10.2	45.3	4.171	45.579	2,000
10/11/19	GU-2	zinc	<20	45.3	2.767	45.233	2,000
4/27/20	GU-2	zinc	21.5	45.3	9.537	18.913	2,000
10/9/20	GU-2	zinc	<20	45.3	7.974	17.876	2,000
4/9/21	GU-2	zinc	<20	45.3	7.896	17.855	2,000
10/25/21	GU-2	zinc	33.1	45.3	9.077	28.223	2,000
4/11/22	GU-2	zinc	<20	45.3	5.772	25.778	2,000
10/12/22	GU-2	zinc	74.1	45.3	5.621	57.979	2,000
1/6/23	GU-2	zinc	53.3	45.3	18.857	66.393	2,000
4/6/23	GU-2	zinc	<20	45.3	9.011	64.689	2,000
10/9/23	GU-2	zinc	<20	45.3	9.011	64.689	2,000
4/4/24	GU-2	zinc	<20	45.3	2.076	39.574	2,000
10/16/24	GU-2	zinc	<20	45.3	10.000	10.000	2,000