

July 3, 2025

Mr. Geoffrey Spain
Land Quality Bureau
Iowa Department of Natural Resources
6200 Park Avenue, Suite 200
Des Moines, Iowa 50321



**RE: 2025 Semi-Annual Water Quality Notification
Ida County Sanitary Landfill 47-SDP-01-76C**

Dear Mr. Spain:

Note for Spring 2025

The laboratory experienced an equipment failure in March 2025, which led to a delay in the reporting of the water quality results. The laboratory digested the metals samples upon receipt but did not analyze the sample until the new equipment was certified by the State laboratory. Any questions related to the emergency equipment replacement should be directed to Microbac Laboratory, Newton, Iowa.

The timeline for reporting for this site is as follows:

Sample collection: April 1, 2025
Delivery to laboratory: April 3, 2025
Metals sample digested: April 17, 2025
Metals Analyses: June 18, 2025
Results reported by laboratory: June 19, 2025
Statistical Report Completed: June 20, 2025

The delays consumed 78 calendar days (April 3, 2025 - June 19, 2025).

Hydrologic Monitoring System Plan (HMSP)

At the Ida County Sanitary Landfill, the following monitoring wells are the upgradient/background wells for the facility: MW-3. Since there is only a single background well for this site, the background may not be representative and may not include effects of spatial variability. For this reason, the site water quality is evaluated by both interwell and intrawell statistical methods.

The following downgradient monitoring points are in the detection monitoring system: MW-3, MW-10, and MW-13.

The following downgradient wells are in the assessment monitoring system: MW-7 and PZ-11.

Notification of Results of Spring Sampling, Analysis, and Statistical Evaluation Wells in the Detection Monitoring System

A. Interwell Statistical Evaluation

*Verified Prediction Limit Exceedances (SSI) for **inorganic** compounds:*

None.

*Verified Prediction Limit Exceedances (SSI) for **VOC** include:*

None.

B. Intrawell Statistical Evaluation

*Verified Control Limit Exceedances (SSI) for **inorganic** compounds:*

MW-10 – nickel*

** based on the CUSUM value, not the actual concentration.*

Wells in the Assessment Monitoring System

A. Interwell Statistical Evaluation

*Verified Prediction Limit Exceedances (SSI) for **inorganic** compounds:*

MW-7 - nickel

*Verified Prediction Limit Exceedances (SSI) for **VOC** include:*

MW-7 – None.

PZ-11 – 1,1-dichloroethane

B. Intrawell Statistical Evaluation

*Verified Prediction Limit Exceedances (SSI) for **inorganic** compounds:*

None.

As reported in the 2024 Annual Water Quality Monitoring Report (AWQR), dichlorofluoromethane at MW-7 continues to be sampled on a semi-annual basis. There are no other on-going requirements to sample for any additional Appendix I or Appendix II compounds during semi-annual monitoring events based on historic sampling data. Further, the frequency of the annual requirement for Appendix II sampling has been reduced to once per five (5) years.

Assessment Monitoring Compound Detections

Date	bis(2-ethylhexyl)phthalate (ug/L)		Dichlorofluoromethane (ug/L)	
	MW-7	PZ-11	MW-7	PZ-11
4/11/2011	<8	NT	<1.0	NT
9/26/2011	NT	NT	NT	NT
4/1/2012	<8	NT	1.4	NT
8/23/2012	NT	NT	2.3	NT
4/12/2013	NT	<8	3.5	<1.0
9/14/2013	NT	NT	3.0	NT
4/11/2014	NT	NT	2.1	NT
9/27/2014	NT	NT	2.6	NT
3/16/2015	NT	NT	<1.0	NT
9/28/2015	NT	NT	<1.0	NT
3/14/2016	NT	NT	<1.0	NT
9/3/2016	NT	NT	<1.0	NT
4/10/2017	<8	NT	1.4	NT
9/1/2017	NT	NT	NT	NT

4/23/2018	NT	NT	1.4	NT
9/14/2018	NT	NT	1.2	NT
4/15/2019	NT	NT	1.4	NT
9/17/2019	NT	NT	<1.0	NT
4/8/2020	NT	6.0	1.6	<1.0
10/2/2020	NT	NT	1.0	NT
4/12/2021	NT	8.0	<1.0	<1.0
10/26/2021	NT	7.0	1.4	NT
4/4/2022	NT	<6	<1.0	NT
10/7/2022	<6	<6	1.3	NT
4/19/2023	NT	<6	<1.0	NT
10/25/2023	NT	NT	1.0	NT
4/17/2024	NT	NT	1.0	NT
10/17/2024	NT	NT	<1.0	NT
4/1/2025	NT	NT	<1.0	NT

Evaluation of Assessment Monitoring Data

There are no 95% Lower Confidence Level (LCL) values that exceed a GWPS, therefore no SSL are identified at the site.

Wells returning to the detection monitoring system

None.

This notification is intended to satisfy requirements of Iowa Administrative Code (IAC) 567-113.10(5)"c"(1); 113.10(6)"d"(1); and 113.10(6)"g".

The water quality results for the Spring of 2025 will be fully evaluated in the Annual Water Quality Report in accordance with the permit and IAC 567-113.10(10).

Please feel free to contact our office at (515) 733-4144 with any questions you may have.

Sincerely,

HLW Engineering Group



Todd Whipple, CPG
Project Manager

cc: Kristy Gilbert, Ida County Auditor

STATISTICAL ANALYSIS
FOR THE
IDA COUNTY SANITARY LANDFILL

First Semi-Annual Monitoring Event in 2025

Prepared for:
Ida County Sanitary Landfill
Ida County, IA

Prepared by:
Jeffrey A. Holmgren
Otter Creek Environmental Services, LLC
Elgin, IL
(847) 464-1355

June 2025
