

May 8, 2026

Mr. Michael Smith, P.E.
Land Quality Bureau
Iowa Department of Natural Resources
6200 Park Avenue, Suite 200
Des Moines, Iowa 50321



**RE: 2026 Semi-Annual Water Quality Report/Notification Letter
Rural Iowa Sanitary Landfill 42-SDP-01-72P**

Dear Mr. Smith:

HMSP

At the Rural Iowa Sanitary Landfill, the following monitoring wells are the upgradient/background wells for the facility: MW-36, MW-37, MW-39, MW-40, and MW-47.

The following downgradient monitoring points remain in the Detection Monitoring system: MW-29, MW-33, MW-50, MW-51, GU-1, GU-2, and GU-3.

The following downgradient monitoring points are in the Assessment Monitoring system: MW-9, MW-35R, and MW-48A.

The wells that are included in the Corrective Action monitoring system; MW-49A, MW-7, MW-7A, MW-7B, MW-13R, MW-14, Tile ACM-1, and PECS-1.

Notification of Results of the Spring Sampling, Analysis, and Statistical Evaluation

Wells in the Detection Monitoring System

Concentrations of *inorganic* compounds that exceed the Prediction Limit:
None.

Concentrations of *VOC* that exceed the Prediction Limit:
None.

Wells in the Assessment Monitoring System

Verified concentrations of *inorganic* compounds that exceed the Prediction Limit:
None.

Verified concentrations of *VOC* that exceed the Prediction Limit:
MW-35R - 1,1-dichloroethane, chloroethane

Historic Appendix II Compound Detections (beyond the Appendix I List) are tabulated below.

Bis (2-ethylhexyl)phthalate (ug/L) – full Appendix II sample is indicated by green highlight

Date	MW48A	MW49A	MW7	MW-9	MW13R	MW14	MW35R
6/22/09	NT	<8	NT	NT	NT	NT	NT
2/23/10	<8	<8	NT	NT	NT	NT	NT
4/12/10	<8	<8	NT	NT	NT	NT	NT
4/20/12	NT	NT	15.0	NT	<8	<8	<8
10/17/12	NT	NT	<11	NT	9.0	<8	<8
4/3/13	NT	NT	<10	NT	<10	NT	NT
10/9/13	NT	NT	<10	NT	<10	NT	NT
4/15/14	NT	NT	<10	NT	<10	NT	NT
10/23/14	NT	NT	<10	NT	<10	NT	NT
4/1/15	17.0	<8	<10	NT	<10	NT	NT
11/5/15	<10	NT	<10	NT	<10	NT	NT
4/21/16	<10	NT	<10	NT	<10	NT	NT
10/17/16	<10	NT	<10	NT	<10	NT	NT
4/21/17	<6	NT	<6	NT	<6	NT	NT
10/16/17	<6	NT	<6	NT	16.0	18.0	<8
4/24/18	NT	NT	NT	<6	NT	NT	NT
10/25/18	NT	NT	NT	NT	NT	NT	NT
4/15/19	NT	NT	NT	<6	NT	NT	NT
10/7/2019	NT	NT	NT	NT	NT	NT	NT
4/22/2020	<6	<6	NT	NT	NT	NT	NT
10/1/2020	NT	NT	NT	NT	NT	NT	NT
4/8/2021	NT	NT	NT	NT	NT	NT	NT
10/29/2021	NT	NT	NT	NT	NT	NT	NT
4/25/2022	NT	NT	NT	NT	NT	NT	NT
10/17/2022	NT	NT	9.0	NT	7.0	11.0	78.0
1/5/2023	NT	NT	<6	NT	<6	<6	79.0
4/10/2023	NT	NT	NT	NT	NT	NT	6.0
10/27/2023	NT	NT	NT	NT	NT	NT	15.0
4/2/2024	NT	NT	NT	<6	NT	NT	<6
10/10/2024	NT	NT	NT	NT	NT	NT	NT
4/15/2025	<6	<6	NT	NT	NT	NT	NT
10/16/2025	NT	NT	NT	NT	NT	NT	NT
4/13/2026	NT	NT	NT	NT	NT	NT	NT

Full Appendix II sample collection events are highlighted green.

Dichlorodifluoromethane (ug/L) - full Appendix II sample is indicated by green highlight

Date	MW48A	MW49A	MW7	MW-9	MW13R	MW14	MW35R
6/22/09	NT	<1	NT	NT	NT	NT	NT
2/23/10	<1	<1	NT	NT	NT	NT	NT
4/12/10	<1	<1	NT	NT	NT	NT	NT
4/20/12	NT	NT	1.0	NT	<1	<1	<1
10/17/12	NT	NT	<1	NT	<1	<1	<1
4/3/13	NT	NT	<1	NT	NT	NT	NT
10/9/13	NT	NT	<1	NT	NT	NT	NT
4/15/14	NT	NT	<1	NT	NT	NT	NT
10/23/14	NT	NT	<1	NT	NT	NT	NT
4/1/15	<1	1.1	<1	NT	NT	NT	NT
11/5/15	NT	<1	<1	NT	NT	NT	NT
4/21/16	NT	<1	<1	NT	NT	NT	NT
10/17/16	NT	<2	<2	NT	NT	NT	NT
4/21/17	NT	<1	<1	NT	NT	NT	NT
10/16/17	NT	<1	<1	NT	<1	<1	<1
4/24/18	NT	NT	NT	<1	NT	NT	NT
10/25/18	NT	NT	NT	NT	NT	NT	NT
4/15/19	NT	NT	NT	<1	NT	NT	NT
10/7/2019	NT	NT	NT	NT	NT	NT	NT
4/22/2020	<1	<1	NT	NT	NT	NT	NT
10/1/2020	NT	NT	NT	NT	NT	NT	NT
4/8/2021	NT	NT	NT	NT	NT	NT	NT
10/29/2021	NT	NT	NT	NT	NT	NT	NT
4/25/2022	NT	NT	NT	NT	NT	NT	NT
10/17/2022	NT	NT	<1	NT	<1	<1	<1
4/10/2023	NT	NT	NT	NT	NT	NT	NT
10/27/2023	NT	NT	NT	NT	NT	NT	NT
4/2/2024	NT	NT	NT	<1	NT	NT	NT
10/10/2024	NT	NT	NT	NT	NT	NT	NT
4/15/2025	<1	<1	NT	NT	NT	NT	NT
10/16/2025	NT	NT	NT	NT	NT	NT	NT
4/13/2026	NT	NT	NT	NT	NT	NT	NT

Full Appendix II sample collection events are highlighted green.

Current Appendix II Compound Detections

None

Wells in the Corrective Action Monitoring System

Verified concentrations of *inorganic* compounds that exceed the Prediction Limit:

- MW-7 – none
- MW-7A – none
- MW-7B – none
- MW-13R – arsenic
- MW-14 – none
- MW-49A – copper, nickel

Verified concentrations of *VOC* that exceed the Prediction Limit:

- MW-7 – none
- MW-13R - 1,4-dichlorobenzene, benzene, chlorobenzene
- MW-14 - 1,4-dichlorobenzene
- MW-49A - benzene, chloroethane, cis-1,2-dichloroethene, vinyl chloride
- ACM Tile 1 – 1,1-dichloroethane, 1,4-dichlorobenzene, chlorobenzene, chloroethane, cis-1,2-dichloroethene

Performance of the Passive Engineered Conveyance System (PECS)

PEC 1 – *VOC* are not detected and confirms the adequate function of the PECS.

Identified SSL and Confidence Limit Evaluation

Site-Specific GWPS are utilized for both arsenic and cobalt since the prediction limit for each exceeds the Statewide Standard for Protected Groundwater under IAC 567, Chapter 137. The Site-Specific GWPS for arsenic and cobalt are:

<u>Compound</u>	<u>Site-Specific GWPS</u>
Arsenic	118.0 ug/L
Cobalt	12.4 ug/L

The Site-Specific GWPS are not to be set lower than the Site Prediction Limit calculated from the site background data. For all other compounds the published IAC 567, Chapter 137 Statewide Standard are utilized as the GWPS.

Comparison of the 95% LCL and the 95% UCL to the GWPS for compounds that have been previously identified as SSL are summarized as:

Well	Compound	Result	95% LCL	95% UCL	Site-Specific GWPS
MW-7	arsenic	71.9 ug/L	5.331 ug/L	548.119 ug/L	118.0 ug/L

Well	Compound	Result	95% LCL	95% UCL	Site-Specific GWPS
MW-13R	arsenic	154 ug/L	157.428ug/L	211.572 ug/L	118.0 ug/L
MW-13R	benzene	3.7 ug/L	2.715ug/L	4.815 ug/L	5.0 ug/L

Well	Compound	Result	95% LCL	95% UCL	Site-Specific GWPS
MW-14	cobalt	8.590 ug/L	7.876 ug/L	13.669 ug/L	12.4 ug/L

Well	Compound	Result	95% LCL	95% UCL	Site-Specific GWPS
MW-49A	cobalt	10.3 ug/L	9.464 ug/L	14.786 ug/L	12.4 ug/L

95% LCL that exceeds the GWPS

95% UCL that exceeds the GWPS

The 95% UCL must remain below the GWPS for three (3) years to demonstrate that the SLL has been mitigated, however, none listed above have yet demonstrated three (3) years of compliance. Remedial actions are in place related to MW-7, MW-13R, MW-14, and MW-49A.

Wells returning to detection monitoring

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 2026 will be fully evaluated in the Annual Water Quality Report in accordance with the unnumbered permit amendments dated May 22, 2013, July 10, 2014, 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: *Clint Reents, Manager*

GROUND WATER STATISTICS

FOR THE

RURAL IOWA SANITARY LANDFILL – CLOSED AREA

First Semi-Annual Monitoring Event in 2026

Prepared for:
Rural Iowa Waste Management Association
20488 M Avenue
Eldora, Hardin County, IA

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

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