

April 24, 2026

Mr. Brad Davison, Environmental Specialist
Iowa Department of Natural Resources
6200 Park Avenue, Suite 200
Des Moines, Iowa 50321



**RE: 2026 Semi-Annual Water Quality Notification Letter
Fayette County Sanitary Landfill 33-SDP-02-83C**

Dear Mr. Davison:

HMSP

At the Fayette County Sanitary Landfill, monitoring wells MW-12, MW-17, and MW-21 are the *upgradient/background wells* for the facility.

MW-16 is the single downgradient monitoring point in the *detection monitoring* system.

The following downgradient monitoring points are in the *assessment monitoring* system; MW-7, MW-9, MW-24, MW-25, MW-26, MW-32, and MW-33.

The following downgradient monitoring points are in the *corrective action monitoring* system; ACM Tile 1 and MW-5.

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

Wells in the Detection Monitoring System

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

Verified *VOC* concentrations that exceed the Prediction Limit:
None.

Wells in the Assessment Monitoring System

Verified *inorganic compound* concentrations that exceed the Prediction Limit:

- MW-9 – arsenic, barium, cobalt
- MW-24 –barium, cobalt, nickel
- MW-25 – none
- MW-26 – cobalt
- MW-32 – arsenic, barium
- MW-33 –cobalt

Verified *VOC* concentrations that exceed the Prediction Limit:
MW-24 – 1,1-dichloroethane, benzene, vinyl chloride

Current Appendix II Compound Detections

MW-5 - Sulfide.

Historic Appendix II Compound Detections (Green Highlights = Full Appendix II Samples)

Bis(2-ethylhexyl)phthalate (ug/L)

Date	MW-5	MW-7	MW-9	MW-16	MW-24	MW-25	MW-26	MW-32	MW-33
6/21/2011	<8	NT	NT	NT	NT	NT	NT	---	---
4/18/2012	<8	NT	NT	NT	NT	NT	NT	---	---
6/21/2012	NT	NT	NT	NT	NT	NT	NT	---	---
10/10/2012	NT	NT	NT	NT	NT	NT	NT	---	---
12/19/2012	NT	NT	NT	NT	NT	NT	NT	---	---
2/18/2013	NT	NT	NT	NT	NT	NT	NT	---	---
4/24/2013	NT	<8	NT	NT	NT	NT	NT	---	---
6/6/2013	NT	NT	NT	NT	NT	NT	NT	---	---
8/27/2013	NT	NT	NT	NT	NT	NT	NT	---	---
10/28/2013	NT	NT	NT	NT	NT	NT	NT	---	---
1/16/2014	NT	NT	NT	NT	NT	NT	NT	---	---
4/25/2014	NT	<8	NT	NT	NT	NT	NT	---	---
6/24/2014	NT	NT	NT	NT	NT	NT	NT	---	---
10/17/2014	NT	NT	NT	NT	NT	NT	NT	---	---
4/27/2015	NT	NT	NT	NT	NT	NT	NT	---	---
10/20/2015	8.0	<8	NT	NT	<8	NT	NT	---	---
4/11/2016	<8	NT	NT	NT	<8	NT	NT	---	---
7/13/2016	NT	NT	NT	NT	NT	NT	NT	---	---
10/11/2016	<8	NT	NT	NT	NT	NT	NT	---	---
4/13/2017	<6	NT	<6	NT	NT	18.0	NT	---	---
10/26/2017	<6	NT	NT	<6	NT	<6	12.0	NT	NT
4/11/2018	<6	NT	6.0	<6	NT	<6	<6	NT	NT
10/16/2018	<6	NT	<6	NT	NT	<6	<6	NT	NT
4/17/2019	NT	NT	<6	NT	NT	<6	7.0	NT	NT
10/15/2019	NT	NT	12.0	NT	NT	<6	<6	NT	NT
4/6/2020	NT	NT	<6	NT	NT	<6	<6	NT	NT
10/13/2020	<6	<6	<6	NT	NT	<6	<6	NT	NT
4/12/2021	NT	NT	6.0	NT	12.0	NT	<6	NT	NT
10/6/2021	NT	NT	<6	NT	<6	NT	<6	<6	NT
4/14/2022	NT	NT	<6	NT	<6	NT	NT	NT	NT
10/25/2022	NT	NT	6.0	NT	<6	NT	NT	<6	55.0
4/3/2023	NT	NT	<6	NT	NT	15.0	18.0	NT	<6
10/16/2023	NT	NT	NT	NT	NT	<6	<6	NT	<6
4/22/2024	NT	NT	NT	NT	NT	NT	NT	NT	<6
10/7/2024	NT	NT	NT	NT	NT	NT	NT	NT	NT
4/1/2025	NT	NT	NT	NT	NT	NT	NT	NT	NT
10/13/2025	<6	<6	NT	NT	NT	NT	NT	NT	NT
3/31/2026	NT	NT	NT	NT	<6	NT	NT	NT	NT

Sulfide (ug/L)

Date	MW-5	MW-7	MW-9	MW-16	MW-24	MW-25	MW-26	MW-32	MW-33
6/21/2011	<100	NT	NT	NT	NT	NT	NT	---	---
4/18/2012	<100	NT	NT	NT	NT	NT	NT	---	---
10/10/2012	NT	NT	NT	NT	NT	NT	NT	---	---
12/19/2012	NT	NT	NT	NT	NT	NT	NT	---	---
2/18/2013	NT	NT	NT	NT	NT	NT	NT	---	---
4/24/2013	NT	<100	NT	NT	NT	NT	NT	---	---
6/6/2013	NT	NT	NT	NT	NT	NT	NT	---	---
8/27/2013	NT	NT	NT	NT	NT	NT	NT	---	---
10/28/2013	NT	NT	NT	NT	NT	NT	NT	---	---
1/16/2014	NT	NT	NT	NT	NT	NT	NT	---	---
4/25/2014	NT	<100	NT	NT	NT	NT	NT	---	---
10/17/2014	NT	NT	NT	NT	NT	NT	NT	---	---
4/27/2015	NT	NT	NT	NT	NT	NT	NT	---	---
10/20/2015	240	<100	NT	NT	<100	NT	NT	---	---
4/11/2016	130	NT	NT	NT	120	NT	NT	---	---
7/13/2016	NT	NT	NT	NT	NT	NT	NT	---	---
10/11/2016	1700	NT	NT	NT	<100	NT	NT	---	---
4/13/2017	<100	NT	<100	NT	<100	<100	NT	---	---
10/26/2017	140	NT	NT	130	<100	NT	<100	NT	NT
4/11/2018	<100	NT	<100	<100	<100	<100	<100	NT	NT
10/16/2018	<100	NT	NT	<100	<100	NT	NT	NT	NT
4/17/2019	<100	NT	NT	<100	NT	NT	NT	NT	NT
10/15/2019	<100	NT	NT	<100	NT	NT	NT	NT	NT
4/6/2020	180	NT	NT	<100	NT	NT	NT	NT	NT
10/13/2020	300	<100	NT	<100	NT	NT	NT	NT	NT
4/12/2021	250	NT	NT	NT	<100	NT	NT	NT	NT
10/6/2021	<100	NT	NT	NT	NT	NT	NT	<100	NT
4/14/2022	660	NT	NT	NT	NT	NT	NT	NT	NT
10/25/2022	<300	NT	NT	NT	NT	NT	NT	<300	<100
4/3/2023	<300	NT	<300	NT	NT	<100	<100	NT	NT
10/16/2023	170	NT	NT	NT	NT	NT	NT	NT	<100
4/22/2024	<100	NT	NT	NT	NT	NT	NT	NT	NT
10/7/2024	280	NT	NT	NT	NT	NT	NT	NT	NT
4/1/2025	540	NT	NT	NT	NT	NT	NT	NT	NT
10/13/2025	350	<100	NT	NT	NT	NT	NT	NT	NT
3/31/2026	630	NT	NT	NT	<100	NT	NT	NT	NT

Sulfide testing will continue semi-annually at MW-5.

Wells in the Corrective Action Monitoring System

Verified *inorganic compound* concentrations that exceed the Prediction Limit:

ACM Tile 1 – None

MW-5 – None

Verified *VOC* concentrations that exceed the Prediction Limit:

ACM Tile 1 – None

MW-5 – 1,1-dichloroethane, 1,4-dichlorobenzene, acetone, benzene, chlorobenzene, chloroethane, cis-1,2-dichloroethene, ethylbenzene.

Corrective Action Monitoring System – Recorded SSL

The following SSL were recorded through the Spring, 2026 sampling event (green highlighted values):

Arsenic - Shallow Till/Fill System – MW-5

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
MW5	10/11/16	Arsenic	28.8	4.0	15.354	34.196	10.0
MW5	4/13/17	Arsenic	22.0	4.0	15.807	27.693	10.0
MW5	10/25/17	Arsenic	27.0	4.0	18.475	29.625	10.0
MW5	4/11/18	Arsenic	13.2	4.0	14.532	30.968	10.0
MW5	10/16/18	Arsenic	37.5	4.0	12.997	36.853	10.0
MW5	4/17/19	Arsenic	27.1	4.0	14.474	37.926	10.0
MW5	10/15/19	Arsenic	59.3	4.0	11.423	57.127	10.0
MW5	4/6/2020	Arsenic	28.5	4.0	20.614	55.586	10.0
MW5	10/13/2020	Arsenic	30.0	4.0	18.076	54.374	10.0
MW5	4/12/2021	Arsenic	56.2	4.0	24.074	62.926	10.0
MW5	10/6/2021	Arsenic	17.9	4.0	13.996	52.304	10.0
MW5	4/15/2022	Arsenic	5.3	4.0	1.805	52.895	10.0
MW5	10/25/2022	Arsenic	9.1	4.0	0.000	49.558	10.0
MW5	4/3/2023	Arsenic	21.4	4.0	4.613	22.237	10.0
MW5	10/16/2023	Arsenic	13.7	4.0	4.226	20.524	10.0
MW5	4/22/2024	Arsenic	15.0	4.0	8.829	20.771	10.0
MW5	10/7/2024	Arsenic	10.6	4.0	9.832	20.518	10.0
MW5	4/1/2025	Arsenic	11.3	4.0	10.235	15.065	10.0
MW5	10/13/2025	Arsenic	10.3	4.0	9.243	14.357	10.0
MW5	3/31/2026	Arsenic	38.5	4.0	1.337	34.013	10.0

Benzene - Shallow Till/Fill System – MW-5

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
MW5	10/20/15	Benzene	6.7	1.0	6.316	7.164	5.0
MW5	4/11/16	Benzene	4.6	1.0	4.876	7.524	5.0
MW5	10/11/16	Benzene	5.7	1.0	4.698	7.397	5.0
MW5	4/13/17	Benzene	4.7	1.0	4.267	6.583	5.0
MW5	10/25/17	Benzene	6.2	1.0	4.384	6.216	5.0
MW5	4/11/18	Benzene	8.7	1.0	4.323	8.237	5.0
MW5	10/16/18	Benzene	5.9	1.0	4.399	8.351	5.0
MW5	4/17/19	Benzene	6.6	1.0	5.361	8.339	5.0
MW5	10/15/19	Benzene	5.6	1.0	5.056	8.344	5.0
MW5	4/6/2020	Benzene	5.6	1.0	5.370	6.480	5.0
MW5	10/13/2020	Benzene	6.3	1.0	5.430	6.620	5.0
MW5	4/12/2021	Benzene	5.7	1.0	5.404	6.196	5.0
MW5	10/6/2021	Benzene	4.5	1.0	4.634	6.407	5.0
MW5	4/15/2022	Benzene	6.0	1.0	4.697	6.553	5.0
MW5	10/25/2022	Benzene	5.4	1.0	4.638	6.162	5.0
MW5	4/3/2023	Benzene	6.5	1.0	4.588	6.612	5.0
MW5	10/16/2023	Benzene	4.5	1.0	4.588	6.612	5.0
MW5	4/22/2024	Benzene	3.7	1.0	3.609	6.441	5.0
MW5	10/7/2024	Benzene	5.2	1.0	3.579	6.371	5.0
MW5	4/1/2025	Benzene	7.2	1.0	3.388	6.912	5.0
MW5	10/13/2025	Benzene	7.0	1.0	3.834	7.716	5.0
MW5	3/31/2026	Benzene	5.5	1.0	5.024	7.426	5.0

Performance of the Passive Engineered Conveyance System

PECS-1 – Satisfactory, VOC are not detected.

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: Joan Swenka, Manager

GROUND WATER STATISTICS

FOR THE

FAYETTE COUNTY SANITARY LANDFILL

First Semi-Annual Monitoring Event in 2026

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April 2026
