

June 4, 2026

Ms. Alexa Slade, Environmental Engineer
IDNR – Land Quality Bureau
6200 Park Avenue, Suite 200
Des Moines, Iowa 50321



**RE: CONFIRMATION OF ALTERNATE SOURCE DEMONSTRATION – MW-28
SOUTH CENTRAL IOWA SANITARY LANDFILL
IDNR PERMIT NO. 61-SDP-01-78P**

Dear Ms. Slade:

This letter is submitted on behalf of the South Central Iowa Landfill Agency (SCILA) in accordance with requirements to do so annually. In accordance with the approved Alternate Source Demonstration (ASD) at MW-28 and IDNR Correspondence dated April 23, 2021 (Doc #100343) and June 6, 2022 (Doc #103331), an annual confirmation of the ASD is made.

The reducing conditions at MW-28 were confirmed on June 3, 2026, by collecting field measurements of several field parameters. The annual parameters are summarized in Table 1 below.

Table 1 - Field Indicator Compounds - MW-28 (Exline Formation)

Compound	10-15-21	9-13-22	4-12-23	4-15-24	7-16-25	6-3-26
Air Temperature, F	55-60	85	77	75	80	82
pH, Field	6.42	6.25	6.47	6.51	6.62	6.56
Water Temp., C	17.2	18.9	8.0	9.6	16.6	12.8
Water Temp., F	63.0	66.0	46.4	49.3	61.88	55.04
D.O. %	2.7	9.8	9.0	9.0	37.4	46.0
D.O. mg/L	0.26	0.95	1.01	1.02	3.50	4.59
Conductivity, us/cm	1701	1574	1669	1579	1536	1303
ORP, mv	-63.6	-11.5	-31.4	-47.1	-83.7	-77.6

Oxidizing conditions within the adjacent pond were historically established using the same field parameters.

Field Indicator Compounds – Pond (Pleasanton Formation)

Compound	10-15-21	9-13-22	7-16-25	6-3-26
Air Temperature, F	55-60	85	80	82
pH, Field	7.69	7.54	7.66	7.42
Water Temp., C	15.4	21.8	28.5	28.6
Water Temp., F	59.7	71.2	83.3	83.48
D.O. %	92.2	92.8	--	104.0
D.O. mg/L	9.2	8.27	--	8.11
Conductivity, us/cm	654	734	380	968
ORP, mv	+77.1	+14.4	+29.1	+70.3

The reducing conditions documented at MW-28 are considered to be the primary cause of elevated arsenic, barium, cobalt, and nickel in groundwater in the vicinity of MW-28.

It is recommended that the subsurface conditions at MW-28 be reevaluated annually through 2027 to verify that the justification of the Alternate Source Demonstration at MW-28 remains unchanged.

Please contact me directly with any questions, comments, or requests for additional information.

Respectfully submitted,
HLW ENGINEERING GROUP



Todd Whipple, CPG.
Project Manager

cc: Marcia Beeler, Manager