

July 7, 2025

Mr. Geoffrey Spain
Environmental Engineer
Iowa Department of Natural Resources
6200 Park Avenue, Suite 200
Des Moines, Iowa 50321



**RE: Quarterly Leachate Report
Boone County Sanitary Landfill
08-SDP-01-75P**

Mr. Spain:

Attached is a copy of the 2nd Quarter 2025 Leachate Report for the Boone County Sanitary Landfill. This is forwarded in accordance with Special Provision X.4.i.2 of the SDP Permit.

The leachate head measurements at LPZ-17 (on the Phase 8-R Expansion area liner) were less than 12" during the 2nd quarter (April, May, and June) of 2025.

The pumps in Extraction Well (EW) #1 and EW #2 were noted as operational during each measurement event during the 2nd quarter of 2025.

A sizable increase in leachate thicknesses was noted in LPZ-2R (7.53') between the February, 2025 and March, 2025 measurements. Measurements at LPZ-2R during the 2nd quarter are trending toward historical levels so the March, 2025 measurement is considered to be an anomaly.

Note additional discussion on leachate volumes and thicknesses will be included in the 2025 Annual Groundwater Quality Report, which will be submitted to IDNR by January 31, 2026.

Please contact me if you have any questions.

Respectfully Submitted,
HLW ENGINEERING GROUP


Douglas J. Luzbetak, P.E.
Project Manager

cc: John Roosa, Landfill Administrator, Boone Co. SLF (*electronic copy*)

Well/TOC LPZ-2R Sept 14 1100.43 Boone Co SLF					Well/TOC LPZ-3 Jan 03 1083.81 1112.37 Boone Co SLF					Well/TOC LPZ-6R Sept 14 1107.81 Boone Co SLF				
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	41.62	1058.81	1044.1	14.71	1/23/2025	37.00	1075.37	1024.8	50.57	1/23/2025	68.23	1039.58	1023.7	15.88
2/20/2025	42.50	1057.93	1044.1	13.83	2/20/2025	36.61	1075.76	1024.8	50.96	2/20/2025	68.32	1039.49	1023.7	15.79
3/24/2025	34.97	1065.46	1044.1	21.36	3/24/2025	37.25	1075.12	1024.8	50.32	3/24/2025	68.00	1039.81	1023.7	16.11
4/28/2025	38.41	1062.02	1044.1	17.92	4/28/2025	36.63	1075.74	1024.8	50.94	4/28/2025	68.01	1039.80	1023.7	16.10
5/12/2025	39.82	1060.61	1044.1	16.51	5/12/2025	36.66	1075.71	1024.8	50.91	5/12/2025	68.05	1039.76	1023.7	16.06
6/6/2025	40.99	1059.44	1044.1	15.34	6/6/2025	35.85	1076.52	1024.8	51.72	6/6/2025	68.13	1039.68	1023.7	15.98

Well/TOC LPZ-8A 1077.19 Boone Co SLF					Well/TOC LPZ-9 1089.5 Boone Co SLF Jan 03 1094.55					Well/TOC LPZ-12 1076.88 Boone Co SLF				
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	44.33	1032.86	995.12	37.74	1/23/2025	29.67	1064.88	1021.30	43.58	1/23/2025	23.30	1053.58	1047	6.58
2/20/2025	45.25	1031.94	995.12	36.82	2/20/2025	30.05	1064.50	1021.30	43.20	2/20/2025	23.80	1053.08	1047	6.08
3/24/2025	45.35	1031.84	995.12	36.72	3/24/2025	29.01	1065.54	1021.30	44.24	3/24/2025	22.65	1054.23	1047	7.23
4/28/2025	45.88	1031.31	995.12	36.19	4/28/2025	28.93	1065.62	1021.30	44.32	4/28/2025	22.32	1054.56	1047	7.56
5/12/2025	41.80	1035.39	995.12	40.27	5/12/2025	29.05	1065.50	1021.30	44.20	5/12/2025	23.03	1053.85	1047	6.85
6/6/2025	46.16	1031.03	995.12	35.91	6/6/2025	29.04	1065.51	1021.30	44.21	6/6/2025	22.90	1053.98	1047	6.98

Well/TOC LPZ-13C 1095 Boone Co SLF					Well/TOC LPZ-14 Sept 14 1091.63 Boone Co SLF					Well/TOC LPZ-15 Sept 14 1088.47 Boone Co SLF				
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	29.40	1065.60	1049.88	15.72	1/23/2025	36.75	1054.88	1046.4	8.48	1/23/2025	34.28	1054.19	1045.3	8.89
2/20/2025	29.63	1065.37	1049.88	15.49	2/20/2025	37.12	1054.51	1046.4	8.11	2/20/2025	34.25	1054.22	1045.3	8.92
3/24/2025	28.95	1066.05	1049.88	16.17	3/24/2025	34.05	1057.58	1046.4	11.18	3/24/2025	33.60	1054.87	1045.3	9.57
4/28/2025	28.94	1066.06	1049.88	16.18	4/28/2025	33.54	1058.09	1046.4	11.69	4/28/2025	33.71	1054.76	1045.3	9.46
5/12/2025	28.95	1066.05	1049.88	16.17	5/12/2025	36.15	1055.48	1046.4	9.08	5/12/2025	33.65	1054.82	1045.3	9.52
6/6/2025	29.05	1065.95	1049.88	16.07	6/6/2025	36.65	1054.98	1046.4	8.58	6/6/2025	34.00	1054.47	1045.3	9.17

Well/TOC		LPZ-17		Boone Co SLF
		Oct 21	973.5	
		Aug 23 ⁽¹⁾	973.8	
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	8.22	965.58	965.5	0.08
2/20/2025	8.22	965.58	965.5	0.08
3/24/2025	8.00	965.80	965.5	0.30
4/28/2025	8.16	965.64	965.5	0.14
5/12/2025	8.20	965.60	965.5	0.10
6/6/2025	8.25	965.55	965.5	0.05

(1) LPZ-17 repaired on August 29, 2023

EW-1 1107.82 Boone Co SLF					Well/TOC EW-2 1110.92 Boone Co SLF					Leachate Tank #3	
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Monthly* Gallons Hauled	Cumulative* Gallons Hauled
1/23/2025	77.38	1030.44	1026	4.44	1/23/2025	78.95	1031.97	1029	2.97	0	-
2/20/2025	77.25	1030.57	1026	4.57	2/20/2025	79.15	1031.77	1029	2.77	0	-
3/24/2025	77.65	1030.17	1026	4.17	3/24/2025	79.10	1031.82	1029	2.82	0	-
4/28/2025	76.20	1031.62	1026	5.62	4/28/2025	79.06	1031.86	1029	2.86	10,485	10,485
5/12/2025	76.65	1031.17	1026	5.17	5/12/2025	79.47	1031.45	1029	2.45	0	10,485
6/6/2025	77.10	1030.72	1026	4.72	6/6/2025	79.79	1031.13	1029	2.13	0	10,485

* Actual volumes weighed and hauled to POTW from Leachate Tank #3