

2026 Quarterly Report - July

July 1, 2026

Submitted by:

Bowman Consulting Group

179 River Street
Troy, NY 12180
(518) 270-1620

Submitted on Behalf of:

**Continental Cement
Company, L.L.C.**

301 East Front Street
Buffalo, IA 52728
800-823-6368

bowman.com

Table of Contents

1.0	Introduction and Project Background	1
1.1.	Introduction	1
1.2.	Background	1
2.0	Leachate Level Monitoring	1
2.1.	Description	1
2.2.	Leachate Levels	2
3.0	Leachate Control System Maintenance	4
4.0	Figures	6
5.0	References	11

Figures

- Figure 1. Map showing the location and aerial extent of the CKD Monofill relative to Continental's property boundaries and the Mississippi River.
- Figure 2. Map showing the location and aerial extent of the three monofill cells relative to Continental's property boundaries, the locations of groundwater and leachate monitoring points, and the western section of Linwood's Stope.
- Figure 3. Plots showing the variation in the depth of leachate in the upper & lower leachate collection zones as measured at UL-1 and LL-1 (A), UL-2R and LL-2 (B), UL-3R and LL-3 (C), and L-Sump (D) in 2026.
- Figure 4. Plots showing the variation in leachate surface elevations in the upper & lower leachate collection zones as measured at UL-1 and LL-1 (A), UL-2R and LL-2 (B), UL-3R and LL-3 (C), and UL-1, UL-2R, UL-3R and L-Sump (D) in 2026. Where UL elevations are higher than LL elevations there is a downward hydraulic gradient. Where elevations at UL-2R are higher than elevations at UL-3R, the horizontal hydraulic gradient within the upper leachate collection zone is northward away from L-Sump.

Tables

Table 1.	Elevation and depth of leachate recorded in UL-1 and LL-1 monitoring conditions in the upper and lower leachate collection zones within the Closed Phase I cell of the CKD monofill.	3
Table 2.	Elevation and depth of leachate recorded in UL-2R and LL-2 monitoring conditions in the upper and lower leachate collection zones within the Active Phase II cell of the CKD monofill.	3
Table 3.	Elevation and depth of leachate recorded in UL-3R and LL-3 monitoring conditions in the upper and lower leachate collection zones within the Active Phase II cell of the CKD monofill.	3
Table 4.	Elevation and depth of leachate recorded in L-Sump monitoring total drainage from the Closed Phase I and Active Phase II cells of the CKD monofill.	4

1.0 Introduction and Project Background

1.1. Introduction

This report serves as Continental Cement Company, LLC's (Continental) July 2026 Quarterly Report and is submitted to fulfill the quarterly reporting requirement instituted by the Iowa Department of Natural Resources in 2026. The quarterly reports present groundwater level data collected across the Continental's Cement Kiln Dust (CKD) landfill, groundwater level and water column depth data collected from the leachate monitoring system measured during the current year; and groundwater quality data collected from any wells sampled during the current year.

1.2. Background

Continental operates a permitted limestone quarry and Portland cement manufacturing plant located at 301 East Front Street, Buffalo, Iowa 52728 (Figure 1). As part of their Portland cement manufacturing process, Continental disposes of cement kiln dust (CKD) into a lined CKD monofil located in a formerly quarried area in the southeastern section of their property (Figure 1).

The CKD monofil area consists of three sections (Figure 2). Prior to Continental's ownership, CKD was emplaced across an approximately 28-acre portion of the formerly quarried area abutting what was the northern headwall of the former quarry (Lafarge CTS, 1997). This initial emplacement of CKD was unlined and is referred to in this report as the Original CKD Disposal Area. In 2000, the previous site owner, Lafarge North America, Inc. (Lafarge) capped and closed the southern half of the Original CKD Disposal Area (Shive-Hattery, 2000).

A series of leachate monitoring wells were installed in the closed portion of the Original CKD Disposal Area, the closed and capped Phase I Cell, and the active Phase II Cell by Lafarge. Leachate water levels are measured to evaluate system performance and to meet Permit No. 82-SDP-16-97P (Permit) Special Provisions #2b and 2i. The leachate monitoring wells and the Leachate Sump are also sampled in accordance with the Permit to evaluate the potential for contaminant release.

This report provides a summary of the leachate water levels measured in the closed and capped Phase I cell and the Active Phase II cell between January 1, 2026 and June 30, 2026.

2.0 Leachate Level Monitoring

2.1. Description

As noted above, Continental's CKD landfill consists of three cells: the closed and capped Original CKD Disposal Area, the closed and capped Phase I Cell, and the active Phase II Cell. Each cell has distinct monitoring systems and leachate controls (Lafarge CTS, 1997; Shive-Hattery, 1999; Shive-Hattery, 2002; Blackstone Environmental, 2022).

The leachate collection system consists of an upper drainage layer with an embedded perforated collection pipe, a lower drainage layer, and monitoring wells installed within each layer. Each upper and lower liner monitoring well is constructed using solid 12-inch PVC as its protective outer casing and an inner 2-inch vertical casing. The inner

casing extends to a 90 elbow from which 10 feet of slotted PVC extends east toward the working face of the respective landfill cell. (Shive-Hattery, 1999; Shive-Hattery, 2002).

Table 1 describes the location and design characteristics of the leachate monitoring points and identifies the section of the monofill that they monitor.

Table 1. Monitoring Location Information

ID	Monitoring Point Locations			Elevations (Feet AMSL)			Total Depth BMP (Feet)
	Monofill Cell	Easting (Feet)	Northing (Feet)	Ground Surface	Measuring Point	Bottom of Well	
L-Sump	Closed Phase I, Active Phase II	2,408,957	545,743	536.7	536.7	524.5	12.2
UL-1	Closed Phase I	2,409,015	545,799	549.9	553.6	543.9	9.6
LL-1	Closed Phase I	2,409,021	545,790	550.3	553.2	528.5	24.7
UL-2R	Active Phase II	2,408,883	545,931	541	545.8	535.5	10.3
LL-2	Active Phase II	2,408,870	545,936	538.6	540.5	529.6	10.9
UL-3R	Active Phase II	2,408,811	546,034	542.6	546.5	536.1	10.4
LL-3	Active Phase II	2,408,810	546,020	539.4	540.7	529.9	10.8

Notes:

Projection: Iowa State Plane Zone 11 South - North American Datum 1983 / North American Vertical Datum 1988

BMP = Below Measuring Point / AMSL = Above Mean Sea Level

UL=upper leachate collection zone / LL = lower leachate collection zone

2.2. Leachate Levels

Leachate levels have been continuously monitored at each of the monitoring points identified in Table 1 throughout 2026. Monitoring is performed using pressure transducers installed at the bottom of each monitoring point that are configured to measure and record the height of the fluid column above the transducer at 30-minute intervals. Leachate surface elevations are then computed from the height measurements for each point in conjunction with the surveyed measuring point elevations listed in Table 1. The pressure transducer readings are calibrated to the manual depth to leachate measurements collected during the field sampling and inspection efforts.

As of June 30, 2026, three sets of manual leachate level measurements were collected: March, May, and June.

Daily average values for both the leachate column height and leachate surface elevations are presented in Table 2, Table 3, and Table 4 along with the number of days in which the transducers were operative. Plots showing the variation in measured leachate depth are presented in Figure 3, Figure 4, Figure 5, and Figure 6. Plots showing the variation in leachate surface elevations and the resulting vertical hydraulic gradients between the upper and lower leachate collection zones are presented in Figure 7, Figure 8, and Figure 9. Figure 10 compares the hydrographs for the monitoring points in the upper leachate collection relative to the hydrograph for the leachate sump.

Table 1. Elevation and depth of leachate recorded in UL-1 and LL-1 monitoring conditions in the upper and lower leachate collection zones within the Closed Phase I cell of the CKD monofill.

Month	UL-1				LL-1			
	Days Measured	Days Dry	Average Elevation	Max/Avg Depth	Days Measured	Days Dry	Average Elevation	Max/Avg Depth
Jan	31	31	NA	NA / NA	31	0	532.10	4.35 / 3.96
Feb	28	28	NA	NA / NA	28	0	531.75	3.93 / 3.61
Mar	31	31	NA	NA / NA	31	0	531.94	4.19 / 3.8
Apr	30	15	544.17	0.38 / 0.24	30	0	532.38	4.68 / 4.24
May	31	30	544.06	0.13 / 0.13	32	0	531.96	4.08 / 3.48
Jun	30	16	544.30	0.59 / 0.37	30	0	532.74	5.09 / 4.21

Notes:

Values for 2026

Elevations are for top of leachate level (feet) / Depths are for the leachate column (feet) / NA = Not Applicable

Table 2. Elevation and depth of leachate recorded in UL-2R and LL-2 monitoring conditions in the upper and lower leachate collection zones within the Active Phase II cell of the CKD monofill.

Month	UL-2R				LL-2			
	Days Measured	Days Dry	Average Elevation	Max/Avg Depth	Days Measured	Days Dry	Average Elevation	Max/Avg Depth
Jan	31	0	538.75	3.44 / 3.13	31	0	533.34	4.09 / 3.68
Feb	28	0	538.68	3.3 / 3.07	28	0	533.23	4.01 / 3.57
Mar	31	0	539.22	3.79 / 3.6	31	0	533.05	3.9 / 3.4
Apr	30	0	539.65	4.18 / 4.04	30	0	532.99	3.64 / 3.34
May	32	0	539.43	4.05 / 3.7	32	0	532.95	3.56 / 3.16
Jun	30	0	539.81	4.88 / 4.19	30	0	533.39	5.09 / 3.68

Notes:

Values for 2026

Elevations are for top of leachate level (feet) / Depths are for the leachate column (feet) / NA = Not Applicable

Table 3. Elevation and depth of leachate recorded in UL-3R and LL-3 monitoring conditions in the upper and lower leachate collection zones within the Active Phase II cell of the CKD monofill.

Month	UL-3R				LL-3			
	Days Measured	Days Dry	Average Elevation	Max/Avg Depth	Days Measured	Days Dry	Average Elevation	Max/Avg Depth
Jan	31	0	538.42	3.03 / 2.32	31	0	532.42	1.00 / 0.66
Feb	28	0	538.26	2.79 / 2.16	28	0	532.39	1.01 / 0.63
Mar	31	0	539.29	3.41 / 3.19	31	0	532.33	0.93 / 0.58
Apr	30	0	539.73	3.78 / 3.63	30	0	532.29	0.79 / 0.53
May	32	0	539.41	3.59 / 3.16	31	0	532.43	0.96 / 0.67
Jun	30	0	539.88	4.45 / 3.71	30	0	532.74	1.57 / 0.98

Notes:

Values for 2026

Elevations are for top of leachate level (feet) / Depths are for the leachate column (feet) / NA = Not Applicable

Table 4. Elevation and depth of leachate recorded in L-Sump monitoring total drainage from the Closed Phase I and Active Phase II cells of the CKD monofill.

Month	L-SUMP			
	Days Measured	Days Dry	Average Elevation	Max/Avg Depth
Jan	32	4	529.97	11.97 / 6.98
Feb	28	4	528.53	13.34 / 5.85
Mar	31	0	527.44	9.06 / 4.77
Apr	30	0	525.76	6.87 / 3.09
May	31	0	524.61	2.01 / 1.93
Jun	30	0	525.74	11.93 / 3.06

Notes:

Values for 2026 / Elevations are for top of leachate level (feet)

Depths are for the leachate column (feet) / NA = Not Applicable

3.0 Leachate Control System Maintenance

Continental has performed the following maintenance actions since submission of the 2025 Leachate Control System Performance Evaluation Report.

1. In June, Continental completed jetting of the leachate collection lines resulting in the disposal of approximately 2,700 gallons of jetting water and leachate. Jetting was performed by injecting pressurized water into the drain lines through one opening of the wye valves attached to the end of the lines. The other end was allowed to discharge into a temporary plastic pool from which the water and leachate were pumped into a waste disposal tank truck. After the jetting process was completed, the water and leachate were trucked to the top of the Active Phase II cell and sprayed onto the surface to control dust. Pictures of the jetting process are provided below.



2. In May, Continental refitted the upper leachate collection zone drain pipes with wye-style fittings allowing jetting access through one branch of the wye while directing leachate flow through the other. The wye

fittings were connected to valves attached to PVC extensions added to the original PVC drain pipes. A picture of the revised system is provided above.

3. In May, Continental confirmed that fill cover was fully established on the capped and closed cells of the monofill. The capped and closed sections were mowed and reseeded on May 22 to further prevent erosion and infiltration.
4. In January, 60 tons of topsoil were placed to fill the low previously identified at the top of the capped and closed cells, shown as Cap Area 1 in the pictures provided below. The grade in the area shown below as Cap Area 2 was estimated to be low but no ponding was observed.



5. In December 2025, Continental completed the repair of the communication cape to monitoring well BMW-24-05.

In addition to the activities described above, the 2026 Spring Semi-Annual Engineering Inspection Report was submitted to the IDNR by EnviroNet on Continental's behalf. The monofill was determined to be in conformance with the provisions set forth in Permit # 82-SPD-16-97P, 82-SPD-15-96C, and with 567 IAC 115. No nonconformance issues were identified.

Continental is currently in the process of developing an Action Plan aimed at reducing the leachate levels in the upper leachate collection system such that they continuously fall below the one-foot permit criteria. The plan will be submitted to the IDNR on July 15, 2026.

4.0 Figures

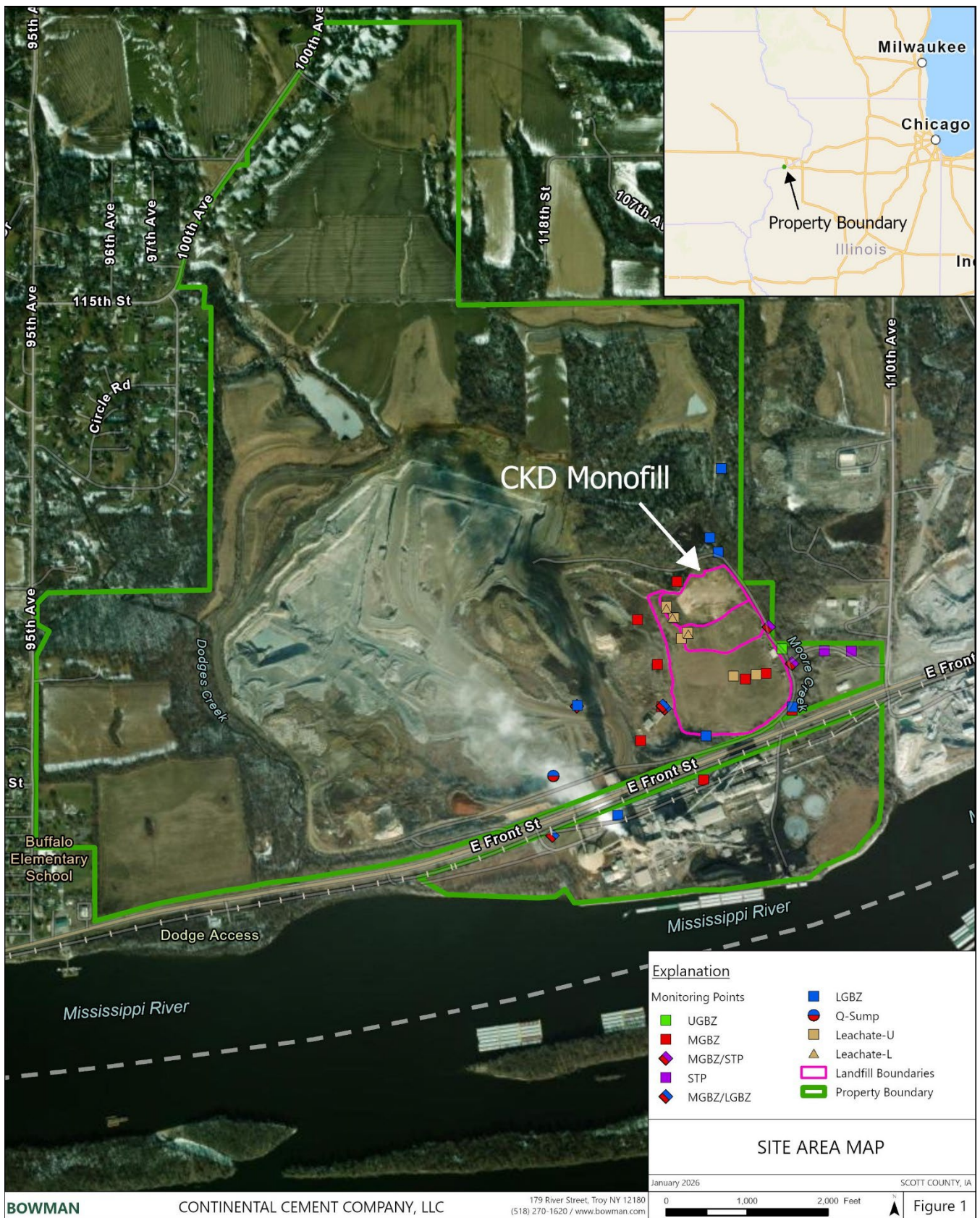


Figure 1. Map showing the location and aerial extent of the CKD Monofill relative to Continental’s property boundaries and the Mississippi River.

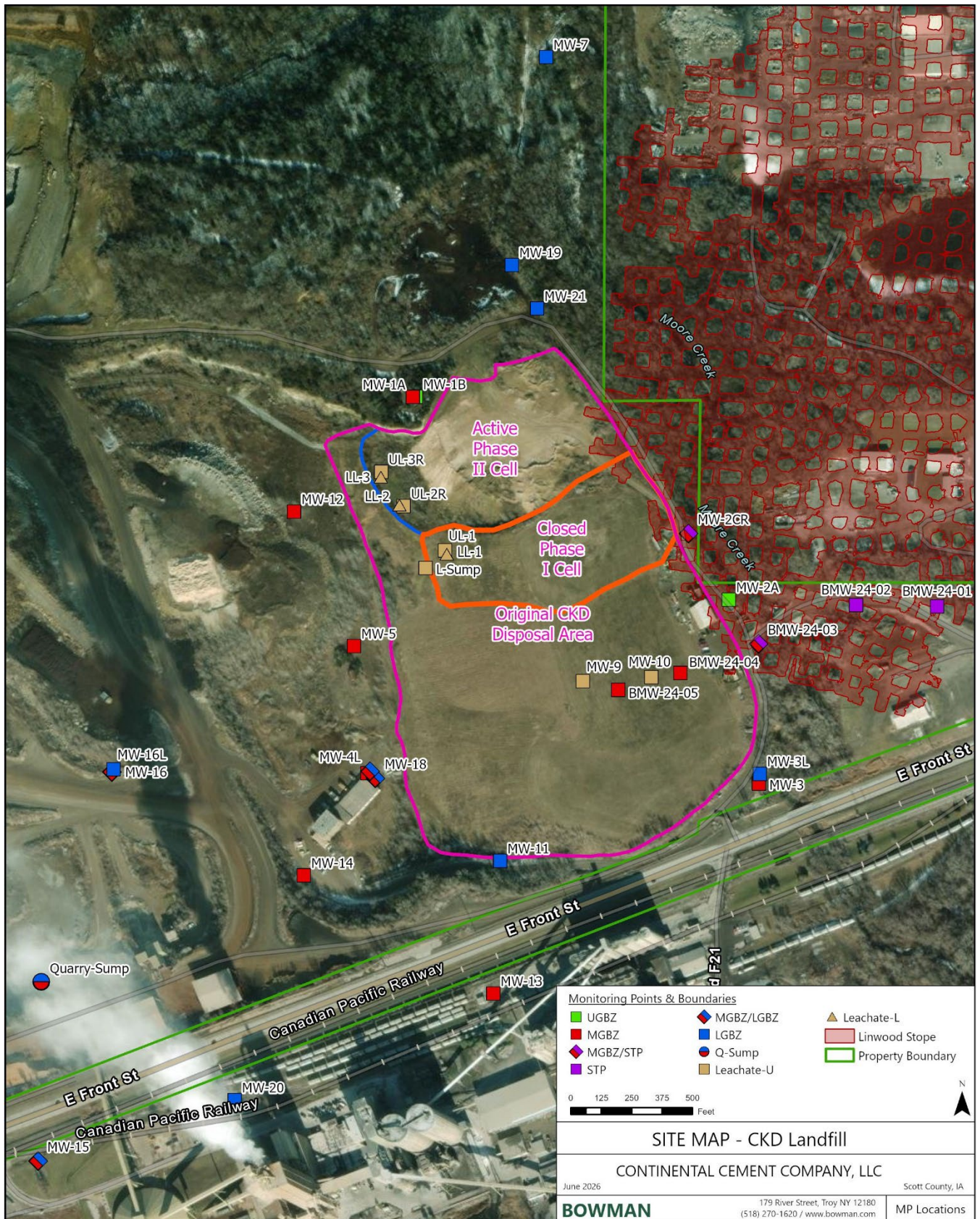


Figure 2. Map showing the location and aerial extent of the three monofill cells relative to Continental's property boundaries, the locations of groundwater and leachate monitoring points, and the western section of Linwood's Stope.

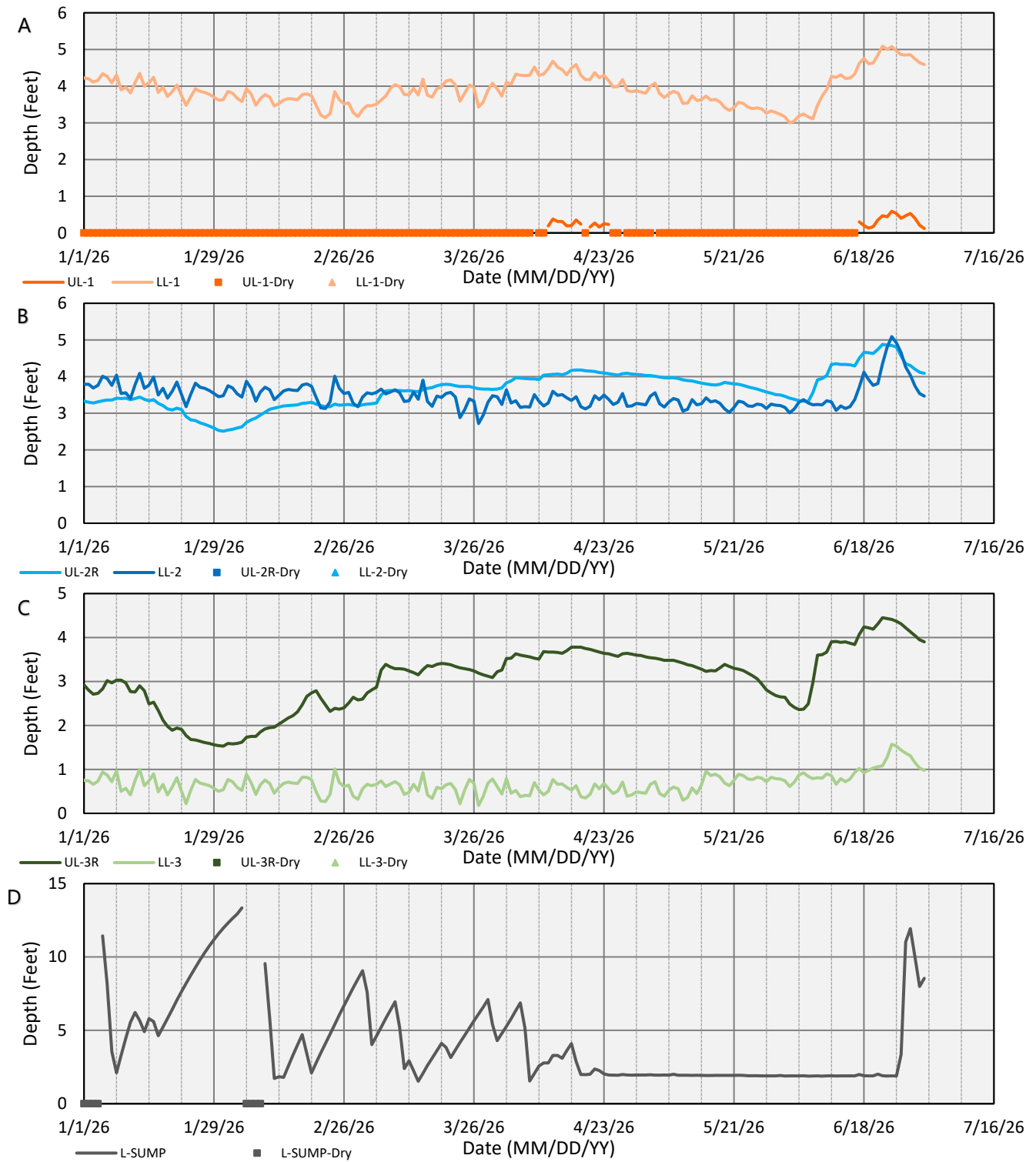


Figure 3. Plots showing the variation in the depth of leachate in the upper & lower leachate collection zones as measured at UL-1 and LL-1 (A), UL-2R and LL-2 (B), UL-3R and LL-3 (C), and L-Sump (D) in 2026.

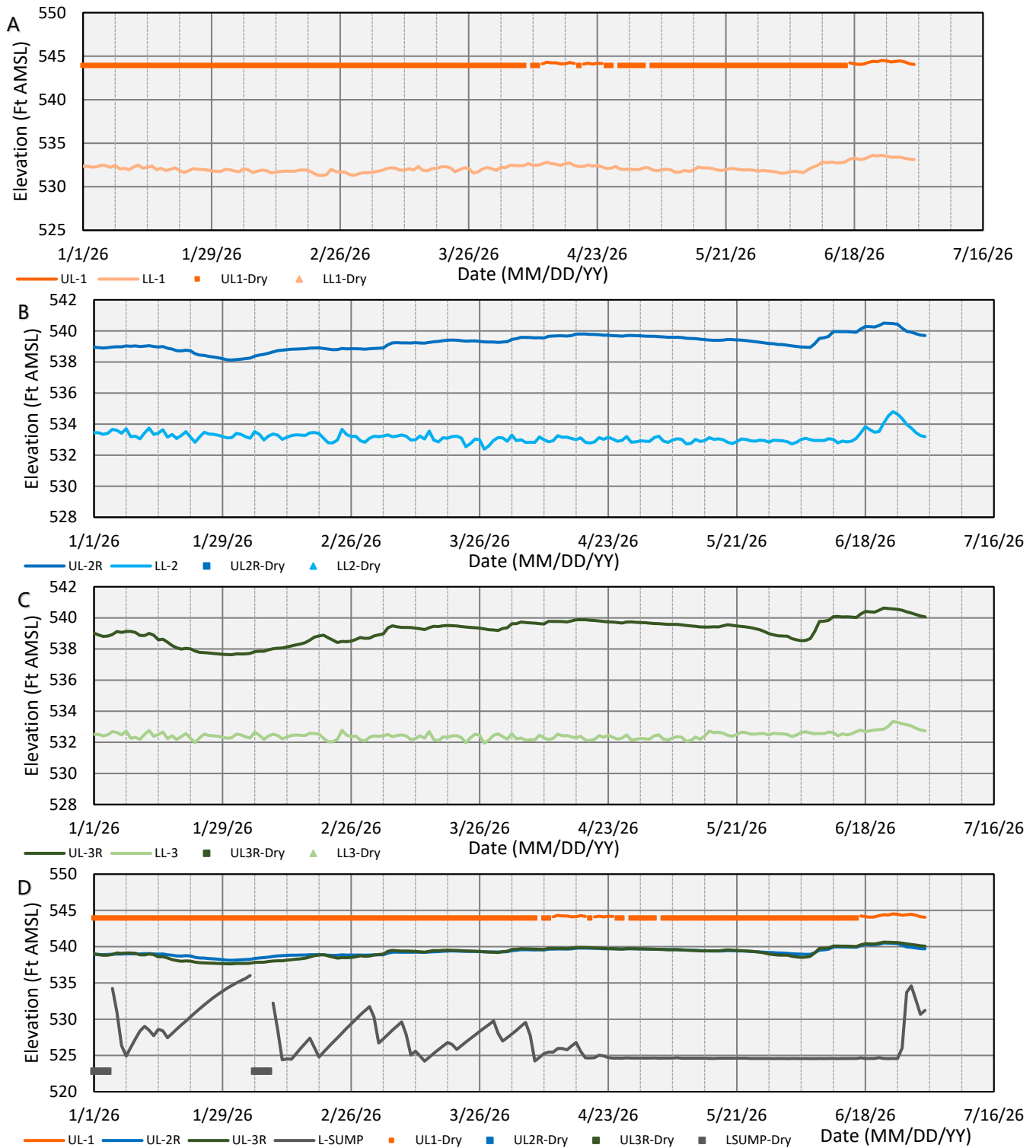


Figure 4. Plots showing the variation in leachate surface elevations in the upper & lower leachate collection zones as measured at UL-1 and LL-1 (A), UL-2R and LL-2 (B), UL-3R and LL-3 (C), and UL-1, UL-2R, UL-3R and L-Sump (D) in 2026. Where UL elevations are higher than LL elevations there is a downward hydraulic gradient. Where elevations at UL-2R are higher than elevations at UL-3R, the horizontal hydraulic gradient within the upper leachate collection zone is northward away from L-Sump.

5.0 References

- Blackstone Environmental, 2022. "UL Replacement CQA Certification Report", Report prepared for Continental Cement (Eric Sonsthagen, P.E., Senior Project Engineer;) and submitted to Iowa Department of Natural Resources.
- Blackstone Environmental, 2023. "Annual Water Quality Report", Report prepared for Continental Cement (Lindsay E. James, R.G., Senior Project Manager; Krista A. Brodersen, Senior Project Manager; Eric Sonsthagen, P.E., Senior Project Engineer) and submitted to Iowa Department of Natural Resources on November 30, 2023.
- Lafarge CTS, 1997. "Cement Kiln Dust Closure and Development Plan, Lafarge Davenport Plant", Report prepared by Lafarge Corporation (Jean-Guy Levaque, Director, Brian Gasiorowski, PE, and Gordon J. Johnson, Civil Engineer) and submitted to the Iowa Department of Natural Resources in January, 1997.
- Iowa Department of Natural Resources (IDNR), 1999. "Cement Kiln Dust Landfill Construction Inspection", Report prepared for Iowa Department of Natural Resources and LaFarge Corporation (Paul Brandt) and submitted to LaFarge Corporation in June, 1999. IDNR Document Number 44984.
- Iowa Department of Natural Resources (IDNR), 2002. "Landfill Inspection Report – New Construction", Report prepared for Iowa Department of Natural Resources and LaFarge Corporation (Paul Brandt) and submitted to LaFarge Corporation in December, 2002. IDNR Document Number 44950.
- Shive-Hattery, 1999. Transmittal of Records and Drawings for Phase I CKD Cell. Submitted to Iowa Department of Natural Resources on May 24, 1999. IDNR Document Numbers: 44912-44916.
- Shive-Hattery, 2000. "RE: Cement Kiln Dust (CKD) Pile Closure Status", Transmittal prepared for Lafarge Corporation (Todd J. Kinney, P.E.) and submitted to Iowa Department of Natural Resources on January 6, 2000. IDNR Document Number 44817.
- Shive-Hattery, 2002. CKD Monofill Phase II Plans. Submitted to Iowa Department of Natural Resources on November 11, 2002. IDNR Document Numbers: 44905-44908.