

**DATE:** December 17, 2025

**TO:** Emily Brickman, P.G., *Senior Project Manager – Geologist, EnSafe*

**FROM:** Ian Klein, P.E., *Environmental Engineer, Harbor*

**RE:** Bi-weekly Site Inspection  
NABORS Landfill  
Mountain Home, AR  
*Harbor Project No: L8247885*

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Harbor conducted the bi-weekly site visit at the NABORS landfill in Mountain Home, Arkansas on December 11, 2025, to assess the general condition of the landfill and the leachate collection system (LCS). The LCS was last fully repaired by Advanced Fluid Technologies (AFT) in October and November of 2022; however, within a few weeks of these repairs, the LCS began malfunctioning. By March 2023, most of the LCS points were malfunctioning. A quote was then requested and received from AFT to repair the system again. No authorization for the subsequent repairs was provided prior to the expiration of Harbor's contract with DEQ in June 2023.

Landmarc Environmental (Landmarc), a company specializing in LCS installation and service, conducted a full assessment of the LCS on December 3-4, 2024. A report summarizing these activities was submitted on January 20, 2025. Harbor discontinued site visits in February 2025 until DEQ approved a new budget for activities occurring at NABORS. The budget was approved on April 3, 2025, and site visits will continue until 2026.

EnSafe submitted a Scope of Services and Fee Estimate (Revision 1) to the Arkansas Department of Energy and Environment Division of Environmental Quality (DEQ) Office of Land Resources on February 28, 2025, which included proposals from Harbor and Landmarc to complete repairs to the LCS. On July 10, 2025, the DEQ approved EnSafe's Scope of Services and Fee Estimate for LCS repairs, which were conducted on September 2-5, 2025. The LCS system was partially repaired, which included installation of 30-amp power disconnects and new PD6000 controllers. Harbor received a report from Landmarc on October 13, 2025, which was included with a report summarizing repairs prepared by Harbor and submitted on October 24, 2025.

Findings and observations from the current landfill inspection are summarized below:

- Vertical leachate collection sump (VLCS)-1 was not functioning correctly, and the sump was observed overflowing (see photograph 1).
- VLCS-2 appeared to be functioning correctly and was observed at 1/2 capacity.
- The leachate tank battery level was 67.6 inches.

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- Approximately two inches of stormwater was observed in the secondary containment. The pH of the stormwater was measured at 9.1, and the drainpipe was not opened (see photograph 2).
- LCS-1 displayed a leachate level of 64.3 inches. The sump did not activate in "hand" or "auto."
- LCS-2 displayed a leachate level of 22.3 inches. The station appeared to be operating in both "hand" and "auto" modes.
- LCS-3 displayed a leachate level of 31.3 inches. The station appeared to be operating; however, the "hand" and "auto" modes did not affect the sump, and the leachate level did not change over time.
- LCS-4 displayed a leachate level of 23.0 inches. The station appeared to be operating in both "hand" and "auto" modes.
- LCS-5 displayed a leachate level of 545.8 inches. Landmarc stated that the sump pump is more than likely faulty, causing voltage issues within the VFD. The station is not functioning correctly and will need additional repairs.
- LCS-6 displayed a leachate level of 532.2 inches. The station did not appear to be functioning correctly.
- LCS-7, LCS-8, and LCS-9 remain non-operational. Landmarc has submitted a proposal to complete repairs.
- An erosional washout is present along the road between LCS-4 and LCS-5.
- Two damaged pressure relief vents (PRV) were observed on the west side of Area 1-2, between LCS-1 and LCS-2 (see photograph 3 and 4). The damage is located near coordinates 36.46144, -92.45128.
- Damaged closure turf was observed on the north side of Area 1-2 at coordinates 36.46181, -92.45045 (see photograph 5). The damage is approximately 30 feet long by 3 feet wide. The damage was first observed on July 2, 2025.
- Damaged closure turf was observed on the east side of Area 1-3, above LCS-7 (see photograph 6). The damage is approximately 100 feet long by 9 feet wide. The closure turf tear was first observed on June 17, 2025.

Attachment A is a map showing the LCS points. Photographs are included in Attachment B. Copies of the field notes and the LCS status form are included in Attachment C.

The LCS functionality has improved significantly since Landmarc made their recent repairs. 417 Services began hauling leachate on July 2, 2024. From July 2, 2024 through February 23, 2025, 226 loads of leachate (866,700 gallons) was hauled to the City of Springfield, Missouri wastewater treatment plant under wastewater contribution permit #593.

No leachate was hauled between February 24, 2025, and April 10, 2025. 417 Services resumed hauling leachate on April 11, 2025. As of October 17, 2025, 180 loads of leachate (693,000 gallons) have been hauled to the City of Springfield for disposal. Leachate hauling has been paused since October 17, 2025, until more funds become available.

**Attachments:**

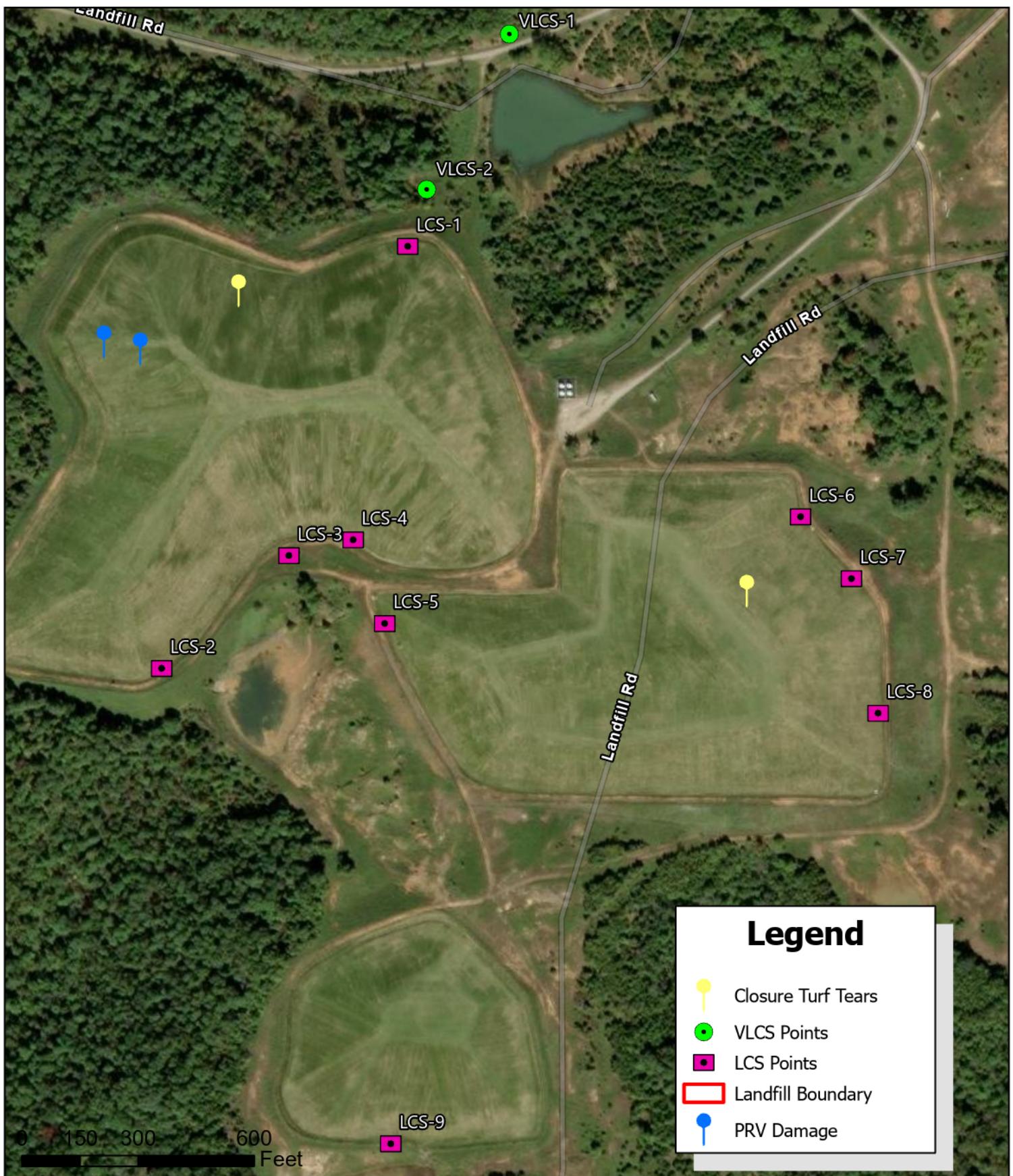
*Attachment A – Site Map*

*Attachment B – Site Photographs*

*Attachment C – Field Notes and Leachate Collection System Status Form*

**Attachment A**

**Site Map**

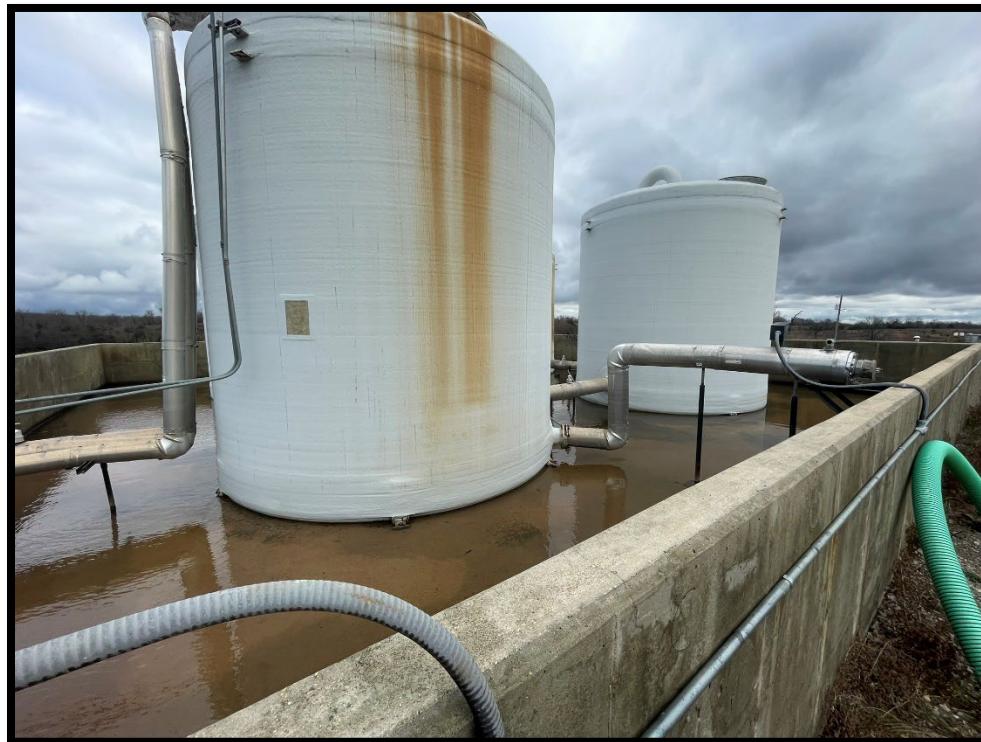


**Attachment B**

**Site Photographs**



**Photograph 1:** View of VLCS-1 at capacity and overflowing.



**Photograph 2:** View of stormwater in secondary containment at leachate tank battery.



**Photograph 3:** View of first damaged pressure relief vent on west side of Area 1-2.



**Photograph 4:** View of second damaged pressure relief vent on west side of Area 1-2



**Photograph 5:** View of damaged closure turf on the north side of Area 1-2.



**Photograph 6:** View of damaged closure turf on east side of Area 1-3.

**Attachment C**

**Field Notes and Leachate Collection System  
Status Inspection Form**

## ATTACHMENTS

### Nabors Landfill

BiWeekly Inspection - 12/11/25

60°F, Clear

- 11:30 Ian arrives on site
- 11:33 VCLS-2 Observed @ 1/2 cap.
- 11:35 VCLS-1 Observed overflowing
- 11:40 Tank Containment Observed
  - ↳ 67.6" in tank
  - ↳ 1<sup>3</sup>/<sub>4</sub>" SW in containment @ 9.1 pH
- 11:46 LCS-1 Observed
- 11:52 LCS-2 Observed
- 11:56 LCS-3 Observed
- 11:58 LCS-4 Observed
- 12:00 LCS-5 Observed
- 12:05 LCS-9 Observed
- 12:09 LCS-8 Observed
- 12:11 LCS-7 Observed
- 12:15 Tear in Liner Observed
- 12:20 LCS-6 Observed
- 12:25 Ian off site



## ATTACHMENTS



## Leachate Collection System Status

Date: 12/11 Arrival Time: 11:30 Location: NABORS Landfill Leachate Tank Battery Level (inches): 67.6

Weather Conditions: Clear 60°F

1 3/4 " SW in Containment 9.1 pH NOT Released

Panel Number	Display Functioning (Yes/No)	Leachate Level (inches)	Green Flashing? (Yes/No)	Amber Flashing? (Yes/No)	Red Flashing? (Yes/No)	Working in Hand? (Yes/No)	Working in Auto? (Yes/No)	VFD Operational? (Yes/No)	Comments
VLCS-1	N/A	N/A	N/A	N/A	Z	Z	Z	N/A	Sump Capacity: Overflow
VLCS-2	N/A	N/A	N/A	N/A	Z	Z	Z	N/A	Sump Capacity: 1/2
LCS-1	Y	64.3	Z	Z	Z	Z	Z	Y	
LCS-2	Y	22.3	Z	Z	Z	Z	Z	Y	
LCS-3	Y	31.3	Z	Z	Z	Z	Z	Z	Always On But Level Never Changes
LCS-4	Y	23.0	Z	Z	Z	Z	Z	Y	
LCS-5	Y	545.8	Z	Z	Z	Z	Z	Y	
LCS-6	Y	532.2	Z	Z	Z	Z	Z	Y	
LCS-7	Z	—	Z	Z	Z	Z	Z	Z	
LCS-8	Z	—	Z	Z	Z	Z	Z	Z	
LCS-9	Z	—	Z	Z	Z	Z	Z	Z	
General Comments:									

## ATTACHMENTS

End of Report

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