

DATE: June 5, 2025

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

FROM: Caleb Gourley, Senior Staff Scientist, Harbor

RE: Bi-weekly Site Inspection
NABORS Landfill
Mountain Home, AR
Harbor Project No: L82247885

Harbor visited the NABORS landfill in Mountain Home, Arkansas on June 4, 2025, to conduct the bi-weekly site inspection 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 again repair the system. 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.

The LCS remains largely unchanged from previous inspections. Findings and observations from the current landfill inspection are summarized below:

- Vertical leachate collection sump (VLCS)-1 is not functioning correctly and was observed at capacity and overflowing (see photographs 1-2). It appears that a fuse holder is missing a metal contact piece, which is causing the sump to malfunction.
 - VLCS-2 appeared to be functioning correctly and was observed at 1/2 capacity.
 - The leachate tank battery level was at 89.3 inches. This is the same observed level as the last inspection which occurred on May 21, 2025, and might be indicative of a malfunction with the leachate tank level monitor.
 - Approximately eight inches of stormwater was observed in the leachate tank containment. Approximately three inches were released while Harbor was on-site (see photograph 3).
 - The panel displays were off at all LCS stations except LCS-2, LCS-5, and LCS-7.
 - LCS-2 level was at 0.0 inches and did not activate when the sump was placed in "hand" or "auto" mode. LCS-2 also displayed a pump fault alarm.
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- LCS-5 level remained at 9.7 inches and did not activate when the sump was placed in “hand” or “auto” mode.
- LCS-7 level was at 0.0” and the station displayed a pump fault.
- The display at LCS-9 had been removed.
- An erosional washout is present along the road between LCS-4 and LCS-5.

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 leachate collection system has been functioning at a minimal level, resulting in some leachate generation, mainly by placing some of the LCS points in “hand” mode. Harbor contract water hauler 417 Services LLC (417 Services) began hauling leachate on July 2, 2024. As of February 23, 2025, 417 Services hauled 226 loads of leachate totaling 866,700 gallons 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. Since hauling resumed in April, and as of 5/31/25, 417 Services hauled 45 loads of leachate totaling 173,250 gallons to the City of Springfield for disposal.

Attachments:

Attachment A – Site Map

Attachment B – Site Photographs

Attachment C – Field Notes and Leachate Collection System Status Form

Attachment A

Site Map



Scales



Legend

- Landfill Boundary
- VLCS Points
- LCS Points



Attachment B

Site Photographs



Photograph 1: View of erosional rill from VLCS-1 overflow.



Photograph 2: View of VLCS-1 sump at capacity.



Photograph 3: View of leachate tank containment.

Attachment C

Field Notes and Leachate Collection System Status Inspection Form

ATTACHMENTS

Nabors Landfill

5/21/25

Bi-weekly Site Visit

weather: 70's, clear, light breeze

1012: C. Gouby on-site

1015: Arrive at VLCS-2

1021: Arrive at VLCS-1

- at capacity + overflowing

1024: Arrive at leachate tank battery

- tank level @ 89.3"

- ~2" of sw in containment

- none released

1029: Arrive at LCS-1

1039: Arrive at LCS-2

1041: Arrive at LCS-3

1043: Arrive at LCS-4

1045: Arrive at LCS-5

1050: Arrive at LCS-9

1055: Arrive at LCS-8

1057: Arrive at LCS-7

1059: Arrive at LCS-6

1111: C. Gouby off-site

Nabors Landfill

6/4/25

Bi-weekly Site Visit

weather: 80's, overcast, breezy

1030: C. Gouby on-site

1034: Arrive at VLCS-2

1037: Arrive at VLCS-1

1040: Arrive at leachate tank battery

- tank level @ 89.3

~8" of sw in cont.

1049: Arrive at LCS-1

1054: Arrive at LCS-2

1056: Arrive at LCS-3

1057: Arrive at LCS-4

1101: Arrive at LCS-5

1106: Arrive at LCS-9

1111: Arrive at LCS-8

1113: Arrive at LCS-7

- significant turb folds

1115: Arrive at LCS-6

1120: ~3" of sw released

1130: C. Gouby off-site



Leachate Collection System Status

 Date: 6/4/25 Arrival Time: 1030 Location: NABORS Landfill Leachate Tank Battery Level (inches): 89.3

 Weather Conditions: 80's, overcast breezy

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 Status	Hours	Alarm	Comments	
VLCS-1	N/A	N/A	N/A	N/A	N	N	N	N/A	N/A	N/A	Sump status:	at capacity
VLCS-2	N/A	N/A	N/A	N/A	N	Y	Y	N/A	N/A	N/A	Sump status:	1/2 full
LCS-1	—	—	—	—	—	—	—	—	—	—	station not operational	
LCS-2	Y	0.0	N	N	N	N	N	—	1853	Y	Pump Fault	
LCS-3	—	—	—	—	—	—	—	—	—	—	station not operational	
LCS-4	—	—	—	—	—	—	—	—	—	—	" "	
LCS-5	Y	1.7	N	N	N	N	N	—	0	N	Station ok	
LCS-6	—	—	—	—	—	—	—	—	—	—	station not operational	
LCS-7	Y	0.0	N	N	N	N	N	—	29	Y	Pump Fault	
LCS-8	—	—	—	—	—	—	—	—	—	—	station not operational	
LCS-9	—	—	—	—	—	—	—	—	—	—	" "	
General Comments:												

End of Report
