

DATE: February 3, 2025

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

FROM: Caleb Gourley, *Staff Scientist, Harbor*

RE: Bi-weekly Site Inspection
NABORS Landfill
Mountain Home, AR
Harbor Project No: ENSF-23299

Harbor visited the NABORS landfill in Mountain Home, Arkansas on January 29, 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 initial repairs on December 3-4, 2024. A report summarizing these activities was submitted on January 20, 2025.

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 functioning correctly and was observed at 3/4 capacity.
 - VLCS-2 appeared to be functioning correctly, and the sump was at approximately 1/2 capacity.
 - Approximately 7.5 inches of stormwater was observed in the leachate tank battery containment (see photograph 1). The pH of the stormwater was measured at 7.45 and approximately 1.5 inches of stormwater was released while on site.
 - The panel displays were off at all LCS stations except LCS-5 and LCS-7.
 - 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 remained at 0.0 inches and did not activate when the sump was placed in "hand" or "auto" mode. LCS-7 also displayed a pump fault alarm.
 - The display at LCS-9 had been removed (see photograph 2). In addition, the cover for the LCS-9 sump had either been manually removed or had fallen off (see photograph 3).
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- The closure turf has some significant rills present between LCS-1 and LCS-2 on the north side of Area 1-2. These rills have sediment deposited in them which allows vegetation to grow. 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 January 9, 2025, 417 Services hauled 187 loads of leachate totaling 716,550 gallons to the City of Springfield, Missouri wastewater treatment plant under wastewater contribution permit #593.

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 approximately 7.5 inches of stormwater in secondary containment.



Photograph 2: View of missing display in LCS-9 panel.



Photograph 3: View of cover removed from LCS-9 sump.

Attachment C

Field Notes and Leachate Collection System Status Inspection Form

ATTACHMENTS

Nabors Landfill

1/29/25

Bi-weekly site visit

weather: 60's, partly cloudy, slight breeze

1115: C. Gowdy on-site

1120: Arrive at VLCS-2

1124: Arrive at VLCS-1

1133: Arrive at leachate tank battery

- tank level @ 177.3"

- pH measured @ 7.45

~ around 7.5" of stormwater

in containment. 1.5" released

1140: Arrive at LCS-1

1143: Arrive at LCS-2

1144: Arrive at LCS-3

1145: Arrive at LCS-4

1147: Arrive at LCS-5

1150: Arrive at LCS-9

1157: Arrive at LCS-6

1159: Arrive at LCS-7

1200: Arrive at LCS-6

1210: C. Gowdy off-site





Leachate Collection System Status

Date: 1/27/25 Arrival Time: 1115 Location: NABORS Landfill Leachate Tank Battery Level (inches): 177.3"
 Weather Conditions: 60's, partly cloudy, slight breeze

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/A	N/A	N/A	Sump status:	3/4 full
VLCS-2	N/A	N/A	N/A	N/A	✓	Y	Y	N/A	N/A	N/A	Sump status:	1/2 full
LCS-1	✓	-	-	-	-	-	-	-	-	-	Station not operational	
LCS-2	✓	-	-	-	-	-	-	-	-	-	" "	
LCS-3	✓	-	-	-	-	-	-	-	-	-	" "	
LCS-4	✓	-	-	-	-	-	-	-	-	-	" "	
LCS-5	Y	9.7	✓	✓	✓	✓	✓	-	0	✓	Station OK	
LCS-6	✓	-	-	-	-	-	-	-	-	-	Station not operational	
LCS-7	Y	0.0	✓	✓	✓	✓	✓	-	26	Y	Pump Fault	
LCS-8	✓	-	-	-	-	-	-	-	-	-	Station not operational	
LCS-9	✓	-	-	-	-	-	-	-	-	-	" "	
General Comments:												

End of Report
