

DATE: February 4th, 2026

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

FROM: Zachary White, *Project Scientist*

RE: Explosive Gas Monitoring
 NABORS Landfill
 Three Brothers, AR
Harbor Project No: L8247885

Harbor conducted explosive gas (methane) monitoring of the existing site perimeter gas probes at the NABORS landfill site on November 3rd and 5th, 2025. An RKI Eagle 2 multi-gas monitor was utilized to measure methane (CH₄) in percent lower explosive limit (% LEL) from 0 – 100%, (or percent CH₄ if greater than 100% LEL), oxygen (O₂) in percent volume, carbon monoxide (CO) in parts per million (ppm), and hydrogen sulfide (H₂S) in ppm. Results of the explosive gas monitoring are summarized in the table below.

NABORS Landfill	
Semi-Annual Explosive Gas Monitoring – November 2025	
Weather Conditions:	Mostly sunny, 0-5 mph wind, mid 60s

Sample Point	Date	Time	CH ₄ (% LEL)	% CH ₄	% O ₂	CO	H ₂ S
GP-1	11/3/25	1257	0	—	17.1	0	0.0
GP-2	11/3/25	1346	0	—	17.4	0	0.0
GP-3	11/3/25	1358	0	—	19.0	0	0.0
GP-4	11/3/25	1402	0	—	18.4	0	0.0
GP-5	11/3/25	1415	0	—	17.1	0	0.0
GP-6	11/3/25	1426	0	—	18.9	0	0.0
GP-7	11/3/25	1432	0	—	18.3	0	0.0
GP-8	11/3/25	1500	0	—	16.4	0	0.0
GP-9	11/3/25	1534	0	—	18.4	0	0.0
GP-10	11/3/25	1540	0	—	15.8	0	0.0
GP-11	11/3/25	1545	0	—	15.9	2	0.0
GP-12	11/5/25	1550	0	—	12.5	0	0.0
GP-13	11/3/25	1112	0	—	16.2	0	0.0
GP-14	11/3/25	1641	2	—	17.0	0	0.0
GP-14R	11/3/25	1635	0	—	17.9	0	0.0
GP-15	11/3/25	1649	0	—	18.0	0	0.0
GP-16	11/3/25	1212	100	—	8.8	10	0.0

Sample Point	Date	Time	CH ₄ (% LEL)	% CH ₄	% O ₂	CO	H ₂ S
GP-16R	11/3/25	1147	0	—	20.9	0	0.0
GP-17	11/3/25	1225	0	—	18.0	0	0.0
GP-18	11/3/25	1250	35	—	12.0	0	0.0
GP-18R	11/3/25	1238	0	—	12.4	0	0.0
Main Office Area	11/3/25	1621	0	—	20.9	0	0.0
Second Office	11/3/25	1628	0	—	20.9	0	0.0
Restroom/Storage	11/3/25	1616	0	—	20.9	0	0.0
Scale House	11/3/25	1206	0	—	20.9	0	0.0

Methane detections were measured in GP-16 at a concentration of 100% LEL, at 2% LEL in GP-14, and 35% LEL in GP-18. CO was detected in GP-11 and GP-16. H₂S was not detected in any gas monitoring locations. Other than normal levels of O₂, no gas detections were measured in the scale house or office building. It should be noted that since 2018, no gas detections have occurred in the scale house or office building. As such, Harbor recommends removing these buildings from the gas monitoring program as they are no longer occupied or in use.

Attachments:

Attachment A – Sample Point Location Map

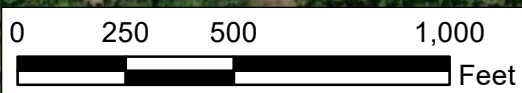
Attachment B – Instrument Calibration Record

Attachment A

Sample Point Location Map



Scales:



Legend

- Landfill Boundary
- Explosive Gas Monitoring Points

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Figure 3 - Gas Monitoring Points
NABORS Landfill
Mountain Home, Baxter County, AR

Date: 5/17/2024
Drawn by: TH
Checked by: LD

Attachment B

Instrument Calibration Record

Gas Detector Calibration and Maintenance Log

Instrument Name: QRAE II Model Number: PGM-2400P Serial Number: 181-151291

Date	Name	Calibration Gas Concentration				Gas Detector Reading on Calibration Gas				Maintenance Notes
		O ₂	LEL	H ₂ S	CO	O ₂	LEL	H ₂ S	CO	
11/3	MATT MARBURY	18%	50%	10 ppm	50 ppm	17.8 %	50 %	10.5 ppm	51 ppm	



CAL GAS LOT # 23-1473 EXP: 4/24/26