

Air Monitoring Summary Tables - Operational Period 1

Project Name: Jordan Disposal Landfill Fire 2026
Date/Time: [03/11/2026 16:00] - [03/12/2026 17:28]



Weather

Temperature: High of 70 °F, low of 28 °F
Wind Speed: 0.0 - 11.9 meters per second
Wind Direction: NNW on March 11 and SSW on March 12
Conditions: cloudy on March 11, and sunny on March 12; no rain throughout the deployment

Scope

EPA supported the response efforts by performing air monitoring in the community. EPA reported air monitoring data directly to KDHE for decision-making purposes. AreaRAE Pro multigas detectors were used to detect Volatile Organic Compounds (VOC), Carbon Monoxide (CO), Hydrogen Sulfide (H₂S), Lower Explosive Limit (LEL), and Oxygen (O₂). DustTrak particulate meters were used to take particulate matter readings, PM₁₀ - particles with diameter of 10 micrometers or smaller, and PM_{2.5} - particles with diameter of 2.5 micrometers or smaller. Air monitoring data were evaluated in real-time and summarized by operational periods. Air monitoring data are compared to community reference levels.

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Fixed Air Station Summary Tables

Fixed air stations are stationary monitoring locations that collect continuous air monitoring data. EPA is able to view and evaluate the air monitoring data in real time for comparison to community reference values.

Fixed Air Station 1 - Galena High School					
Instrument	Analyte (unit)	Min	Max	Average	Community Reference Level (TWA)
AreaRAE Pro	VOC (ppm)	0	0	0	4.8 (8 hr)
	CO (ppm)	0	0	0	9 (8 hr)
	H ₂ S (ppm)	0	0	0	0.33 (8 hr)
	LEL (%)	0	0	0	>10 (NA)
	O ₂ (%)	20.9	20.9	20.9	<19.5 or >23.5 (NA)
DustTrak	PM _{2.5} (µg/m ³)	4	30	7	35 (24 hr)
	PM ₁₀ (µg/m ³)	4	31	7	150 (24 hr)
Notes: This air monitoring station was taken down and remained offline from March 11, 2026 at 7:52 PM until March 12, 2026 at 6:51 AM, when it was reassembled and returned to service.					

Fixed Air Station 2 - 720 E. 5th Street					
Instrument	Analyte (unit)	Min	Max	Average	Community Reference Level (TWA)
AreaRAE Pro	VOC (ppm)	0	0	0	4.8 (8 hr)
	CO (ppm)	0	0	0	9 (8 hr)
	H ₂ S (ppm)	0	0	0	0.33 (8 hr)
	LEL (%)	0	0	0	>10 (NA)
	O ₂ (%)	20.9	21.3	20.95975	<19.5 or >23.5 (NA)
DustTrak	PM _{2.5} (µg/m ³)	0	52	6	35 (24 hr)
	PM ₁₀ (µg/m ³)	0	77	6	150 (24 hr)
Notes:					

Fixed Air Station 3 - 504 E. 4th Street					
Instrument	Analyte (unit)	Min	Max	Average	Community Reference Level (TWA)
AreaRAE Pro	VOC (ppm)	0	0	0	4.8 (8 hr)
	CO (ppm)	0	0	0	9 (8 hr)
	H ₂ S (ppm)	0	0	0	0.33 (8 hr)
	LEL (%)	0	0	0	>10 (NA)
	O ₂ (%)	20.9	20.9	20.9	<19.5 or >23.5 (NA)
DustTrak	PM _{2.5} (µg/m ³)	3	42	8	35 (24 hr)
	PM ₁₀ (µg/m ³)	3	48	8	150 (24 hr)
Notes:					

Table Notes

Analyte	Definition	Community Reference Level
CO	Carbon Monoxide	NAAQS, 8-hour TWA
H ₂ S	Hydrogen Sulfide	AEGL-1 , 8-hour TWA
LEL	Lower Explosive Limit	29 CFR 1910.146 Confined Spaces
O ₂	Oxygen	29 CFR 1910.146 Confined Spaces
PM ₁₀	Particulate Matter <10 microns	NAAQS, 24-hour TWA
PM _{2.5}	Particulate Matter <2.5 microns	NAAQS, 24-hour TWA
VOC	Volatile Organic Compounds	AEGL-1 for benzene, 8-hour TWA, with 0.53 PID CF

% Percent

< Less than

> Greater than

µg/m³ Micrograms per cubic meter

AEGL Acute Exposure Guideline Levels for Airborne Chemicals

CFR Code of Federal Regulations

NA Not applicable

NAAQS National Ambient Air Quality Standards

PID CF Photoionization detector correction factor

ppm Parts per million

TWA Time-weighted average