



December 3, 2025

Kansas Department of Health and Environment
Bureau of Waste Management
1000 SW Jackson Street, Suite 400
Topeka, KS 66612-1367
Attention: Heather Merritt

RE: Ambient Air Monitoring Activities – 11/25/2025
City of Galena Construction and Demolition Landfill
KDHE Permit No. 738
Galena, Cherokee County, Kansas

Dear Ms. Merritt,

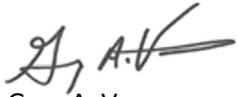
Air monitoring was conducted on November 25, 2025, according to the Ambient Air Monitoring Protocol dated October 6, 2025, and approved by KDHE on October 29, 2025. The protocol, following Kansas Administrative Regulations (K.A.R.) 28-29-333(b)(1), included the use of a Jerome 631-X to monitor hydrogen sulfide (H₂S) in parts per billion (ppb) and a Landtec GEM5000 to measure methane (CH₄) concentrations as a percent of the lower explosive limit (LEL). These two instruments were calibrated prior to use, and a prevailing northwest wind determined the monitoring locations. A Kestrel 4000 was used on site as a handheld weather meter to determine wind speed, temperature, humidity, dew point, and barometric pressure. A handheld Garmin GPS device was utilized to document the location of each sampling event along the permitted landfill boundary.

One location was monitored on the upwind (northwest) side of the landfill boundary as a background location, and a total of four additional locations were monitored around the south, southeast, and east sides of the landfill boundary. The H₂S readings were taken every minute for 15 minutes, and the Time Weighted Average (TWA) was documented as the average of the 15 readings from each location. All monitoring locations exhibited a 0 ppb TWA for H₂S, and no methane concentrations were observed above the device's detection limits during any of the monitoring locations, including inside the scalehouse office building. A site map is included as an attachment to this letter in addition to Table 1, exhibiting the air monitoring data and Table 2 exhibiting the location and weather conditions of each sampling location.

TriCore appreciates your time and consideration on this matter. If you have questions, comments, or need additional information, please do not hesitate to contact the undersigned.

Sincerely,

TriCore Group, LLC



Greg A. Vance



Joe Paul Edwards, P.E.

Attachments: Table 1: Ambient Air Monitoring Data
Table 2: Ambient Air Monitoring Location, Weather, and Observations
Figure 1: Air Monitoring Locations

Cc: Ashley Groves – City of Galena
Michelle Murphy – Jordan Disposal
Mads Gisselbaek – Jordan Disposal

C&D Landfill (No. 738) Ambient Air Monitoring Data

Table 1: Ambient Air Monitoring Data

Sample ID	Date	Time	Individual H ₂ S Readings															H ₂ S TWA	CH ₄	
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15			
25112501	11/25/25	1044-1058	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.0
25112502	11/25/25	1116-1130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.0
25112503	11/25/25	1136-1150	0	0	0	0	0	0	0	0	0	0	0	0.001	0	0	0	0	0.000	0.0
25112504	11/25/25	1154-1208	0	0	0	0.001	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.0
25112505	11/25/25	1211-1225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.0
25112506	11/25/25	1233	0															n/a	0.0	

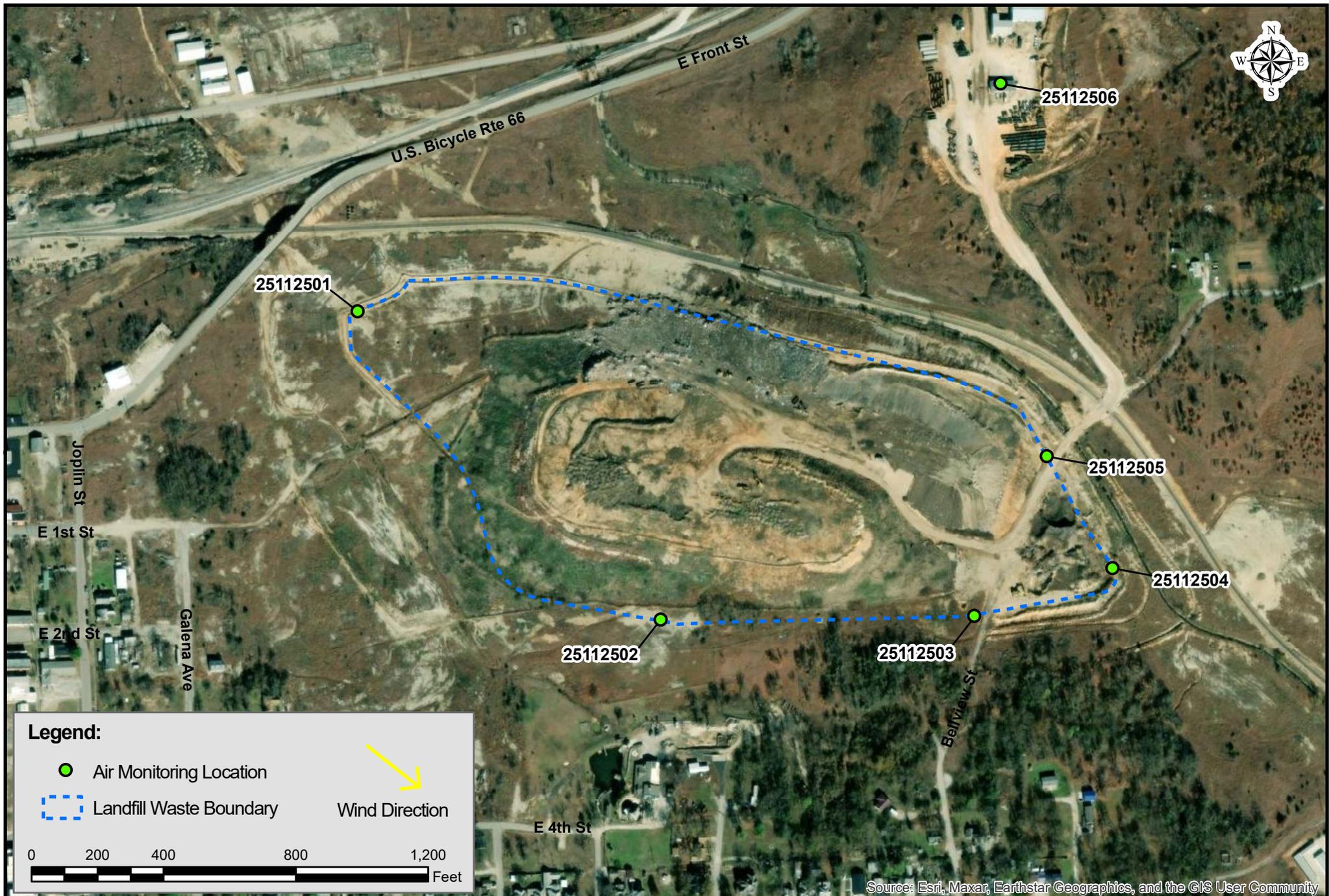
* The H₂S (hydrogen sulfide) results are reported in parts per million (ppm), and the CH₄ (methane) results are reported as a percent of the lower explosive limit (LEL).

** TWA = Time Weighted Average

Table 2: Ambient Air Monitoring Location, Weather, and Observations

Sample ID	Date	Time	Latitude	Longitude	Wind Direction	Wind Speed (mph)	Temp. (F)	Humidity (%)	Dew Point	Barom. Pressure	Odor Observations
25112501	11/25/25	1044-1058	37.08144	-94.63518	NW	6	55.4	79.1	49.1	29.02	No noticeable odor
25112502	11/25/25	1116-1130	37.07880	-94.63217	NW	6	56.7	69.4	46.3	28.99	No noticeable odor
25112503	11/25/25	1136-1150	37.07870	-94.62892	NW	6	57.1	75.8	50	28.96	Intermittent odor; decomposing waste, potential slight sulfur
25112504	11/25/25	1154-1208	37.07905	-94.62747	NW	7	58	67.8	47.8	28.99	Intermittent odor; decomposing waste, earthy smell
25112505	11/25/25	1211-1225	37.08000	-94.62810	NW	4	58.9	63.9	46.5	29.01	No noticeable odor
25112506	11/25/25	1233	Scalehouse		n/a	n/a	n/a	n/a	n/a	n/a	No noticeable odor

*Each weather reading is reported as: Wind Speed = miles per hour, Temperature & Dew Point = degrees Fahrenheit, Humidity = percentage, and Barometric Pressure = inches of mercury



Legend:

- Air Monitoring Location
- Landfill Waste Boundary
- ➔ Wind Direction



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

FIGURE 1
 AMBIENT AIR MONITORING
 JORDAN DISPOSAL LANDFILL
 AIR MONITORING LOCATIONS



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Drafted by SCM
 Date: 12/1/25
 Project #25C1KS-301