



June 16, 2026

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 – 5/20/2026
City of Galena Construction and Demolition Landfill
KDHE Permit No. 738
Galena, Cherokee County, Kansas

Dear Ms. Merritt,

Air monitoring was conducted on May 20, 2026, 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 J605 to monitor hydrogen sulfide (H₂S) in parts per billion (ppb) and a Landtec GEM5000 to monitor methane (CH₄) concentrations as a percent of the lower explosive limit (LEL). These two instruments were calibrated prior to use, and a prevailing northeast 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.

One location was monitored on the upwind (northeast) side of the landfill boundary as a background location, and a total of three additional locations were monitored downwind along the southwest sides of the property. 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. The northeast location (Sample ID 26052001) and southern-most location (Sample ID 26052002) registered no detectable H₂S concentrations (≥ 0.003 ppm), and no sulfur odor was observed along the entire south side of the landfill. The two samples southwest of the previously identified “hot spot” on the northwest end of the landfill (Sample ID 26052003 and 26052004), however, exhibited a sulfur odor and detectable H₂S concentrations. The H₂S concentrations ranged from 0 to 25.36 parts per billion (ppb), with a TWA of 6.90 ppb for Sample ID 26052003 and 1.81 ppb for Sample ID 26052004.

No sampling locations registered detectable methane concentrations above 0.0%. A site map is included as an attachment to this letter, and the tables attached below exhibit the air monitoring data (Table 1) and the location and weather conditions (Table 2) of each sampling location. Calibration certificates/reports for both the Jerome J605 and GEM5000 instruments are also included as attachments to this letter.

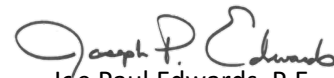
TriCore appreciates your time and consideration on this matter. If you have questions, comments, or need additional information, please do not hesitate to contact the undersigned.

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
Instrument Calibration Documents

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		
26052001	5/20/26	1358-1412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.0
26052002	5/20/26	1423-1437	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.0
26052003	5/20/26	1504-1518	0.01574	0.02487	0	0.02359	0.02536	0	0	0	0	0	0	0	0.01392	0	0	0.00690	0.0
26052004	5/20/26	1527-1541	0	0	0	0	0	0	0	0	0.00491	0.00407	0.00447	0.00347	0.00447	0.00581	0	0.00181	0.0
26052005	5/20/26	1553	0															n/a	0.0

*The H₂S (hydrogen sulfide) results are reported in parts per million (ppm).

**The CH₄ (methane) results are reported as a percentage of the lower explosive limit (LEL).

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	Barometric Pressure	Odor Observations
26052001	5/20/26	1402-1404	37.082184	-94.628665	NE	6.2	59.8	70.7	53.5	29.19	No noticeable odor
26052002	5/20/26	1424-1426	37.078624	-94.632695	NE	5.5	59.2	77.3	52.1	29.18	Intermittent decomposing waste odor
26052003	5/20/26	1506-1508	37.079642	-94.634949	NE	5.8	59.3	74.5	51.6	29.19	Intermittent strong sulfur odor
26052004	5/20/26	1537-1539	37.080514	-94.63571	NE	4.5	60.4	75.4	52.2	29.19	Intermittent sulfur odor
26052005	5/20/26	1552-1554	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



FIGURE 1
 AMBIENT AIR MONITORING
 JORDAN DISPOSAL LANDFILL
 AIR MONITORING LOCATIONS 5.20.26



TriCore Group, LLC
 PO Box 720992
 Oklahoma City, OK 73172
 405-256-2277
 www.tricoregrp.com

Address:
 1040 East Front Street
 Galena, KS 66739

County: Cherokee
 Lat: 37.083115
 Long: -94.62861

Drafted by SCM
 Drafted Date: 5/21/26
 Project #26C1KS-010



11 Commerce Blvd. | Middleboro, MA 02346
P: 508.946.6200 | F: 508.946.6262

CERTIFICATE NUMBER 392506
CUSTOMER NAME CITY OF GALENA
ADDRESS 211 W 7TH
GALENA KS 66739
USA

CERTIFICATE OF INSTRUMENT CALIBRATION

<u>MODEL</u>	<u>SERIAL NUMBER</u>	<u>CALIBRATION DATE</u>	<u>CALIBRATION DUE DATE</u>
J605-0001	60500759	4/28/2026	4/27/2027

To the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques. Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, AMETEK Brookfield WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications. This document shall not be reproduced, except in full, without the written approval of AMETEK Brookfield.

REFERENCE EQUIPMENT USED TO CALIBRATE THE EQUIPMENT

<u>TYPE/MODEL</u>	<u>SERIAL/LOT NUMBER</u>	<u>CALIBRATION DATE</u>	<u>CALIBRATION DUE DATE</u>
Cal Set	CC240536	2/21/2024	2/21/2027
<u>TYPE/MODEL</u>	<u>SERIAL/LOT NUMBER</u>	<u>CALIBRATION DATE</u>	<u>CALIBRATION DUE DATE</u>
Alicat	60245	7/22/2025	7/23/2026
<u>TYPE/MODEL</u>	<u>SERIAL/LOT NUMBER</u>	<u>CALIBRATION DATE</u>	<u>CALIBRATION DUE DATE</u>
Alicat	437338	7/22/2025	7/23/2026
<u>TYPE/MODEL</u>	<u>SERIAL/LOT NUMBER</u>	<u>CALIBRATION DATE</u>	<u>CALIBRATION DUE DATE</u>
Fluke	84030258	9/12/2025	9/12/2026

NIST TRACE # SRM 2730; 65-D-035; CAL013399 **PROCEDURE #:** 730-0099

All reference equipment used to calibrate the instrument listed upon this certificate have calibrations that are traceable to the National Institute of Standards and Technology (NIST).

APPROVAL SIGNATURE

TODD PLACE, QUALITY MANAGER

CALIBRATION PERFORMED BY MA



April 28, 2026
3375 N. Delaware Street, Chandler, AZ 85225
800.528.7411 Fax 602.281.1745
BrookfieldEngineering.com

J605 Incoming / Outgoing Data Sheet

<u>MODEL</u>	<u>SRO NUMBER</u>	<u>SERIAL NUMBER</u>
J605	S211932	60500759

INCOMING

Calibration Gas

	Allowable Range $\pm 6\%$ 0.47 to 0.53 ppm H ₂ S	$\leq 3\%$
Concentration	Mean @ Saturation	Relative Standard Deviation
<input type="text" value="0.5000"/> ppm H ₂ S	<input type="text" value="0.0000"/> ppm H ₂ S	<input type="text" value="0.00%"/>

Calibration Status as Received: **Functionally Unable to Check Calibration.**

OUTGOING

Calibration Gas

	Allowable Range 0.47 to 0.53 ppm H ₂ S $\pm 6\%$	$\leq 5\%$
Concentration	Mean @ Saturation	Relative Standard Deviation
<input type="text" value="0.500"/> ppm H ₂ S	<input type="text" value="0.502"/> ppm H ₂ S	<input type="text" value="1.10%"/>

Calibration Status as Left: **In Calibration.**

Estimated Uncertainty of Calibration System: 3.5%

CERTIFICATION OF CALIBRATION



Date Of Calibration: 30-Apr-2026

Certificate Number: G503796_2/41422

Issued by: QED Environmental Systems Inc.

Customer: PINE ENVIRONMENTAL SERVICES LLC
PO BOX 943 HIGHTSTOWN NJ 08520 UNITED STATES

Description:

Model: GEM5000

Serial Number: G503796

Accredited Results:

Methane (CH4)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.42
15.0	15.1	0.66
60.0	59.7	1.03

Carbon Dioxide (CO2)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.43
15.0	14.9	0.71
40.0	40.1	1.19

Oxygen (O2)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.0	21.0	0.25

Gas cylinders are traceable and details can be provided if requested.

CH4, CO2 readings recorded at: 32.3 °C/90.2 °F

Barometric Pressure: 0981 mbar/28.98 "Hg

O2 readings recorded at: 23.0 °C/73.4 °F

Method of Test : The analyzer is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure ISP17.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 118 IGC Instance: 118

Page 1 of 2 | LP015LNANIST-1.1

www.qedenv.com (800) 624-2026 info@qedenv.com

QED Environmental Systems Inc. 2355 Bishop Circle West, Dexter, MI 48130

CERTIFICATION OF CALIBRATION



No. 66916



Date Of Calibration: 30-Apr-2026

Certificate Number: G503796_2/41422

Issued by: QED Environmental Systems Inc.

Non Accredited results:

Pressure Transducers (inches of water column)					
Transducer	Certified (Low)	Reading (Low)	Certified (High)	Reading (High)	Accuracy
Static	0"	0"	40"	40.13"	2.0"
Differential	0"	0"	4"	4.03"	0.7"

Barometer (mbar)	
Reference	Instrument Reading
0981 mbar / 28.98 "Hg	0982 mbar / 28.99 "Hg

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
H ₂ S	249	249
CO/H ₂ COMP	498	499

As received gas check readings are only recorded if the instrument is received in a working condition. Where the instrument is received damaged no reading can be taken.

Date of Issue : 01 May 2026

Approved By Signatory


Julian Batic
Laboratory Inspection

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 118 · IGC Instance: 118

Page 2 of 2 | LP015LNANIST-1.1

www.qedenv.com (800) 624-2026 info@qedenv.com

QED Environmental Systems Inc. 2355 Bishop Circle West, Dexter, MI 48130



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 36249
Description GEM 5000
Calibrated 5/18/2026 2:39:10PM

Manufacturer CES Landtec
Model Number GEM 5000
Serial Number/ Lot G503796
Number
Location St. Louis
Department ENV

State Certified
Status Pass
Temp °C 22.2
Humidity % 43

Calibration Specifications

				Range Acc %			Pass/Fail
Group # 1				0.0000			
Group Name CO				Reading Acc %			
Stated Accy Pct of Reading				Plus/Minus		0.00	
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
1000.00 / 1000.00	PPM	1000.00	PPM	986.00	1,000.00	0.00%	Pass
Group # 2				Range Acc %			
Group Name H2S				Reading Acc %			
Stated Accy Pct of Reading				Plus/Minus		0.00	
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
50.00 / 50.00	PPM	50.00	PPM	46.00	50.00	0.00%	Pass
Group # 3				Range Acc %			
Group Name CO2				Reading Acc %			
Stated Accy Pct of Reading				Plus/Minus		0.00	
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
35.00 / 35.00	%Volume	35.00	%Volume	34.40	35.00	0.00%	Pass
Group # 4				Range Acc %			
Group Name CH4				Reading Acc %			
Stated Accy Pct of Reading				Plus/Minus		0.00	
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
50.00 / 50.00	%Volume	50.00	%Volume	48.70	50.00	0.00%	Pass
Group # 5				Range Acc %			
Group Name O2				Reading Acc %			
Stated Accy Pct of Reading Range				Plus/Minus		0.0	
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
20.9 / 20.9	%Volume	20.9	%Volume	21.3	20.9	0.00%	Pass



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 36249
Description GEM 5000
Calibrated 5/18/2026 2:39:10PM

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date/ Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
STL 50 CH4/35 CO2 L#304-4028832 4	STL 50 CH4/35 CO2 L#304-402883248-1	Gasco	X03ME50CP5000 0	304-402883248 -1		10/24/2027
STL GEM+ BLEND L#304-4031295 66-1	STL GEM+ BLEND L#304-403129566-1	Gasco	X03NI99CA34002 8	304-403129566 -1		8/26/2026
STL ZERO AIR L#304-4027967 63-1	STL ZERO AIR L#304-402796763-1	Gasco	AIUZP15	304-402796763 -1		9/6/2027

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Austin Carter

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

**Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance**