



September 29, 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 – 9/18/2026**  
City of Galena Construction and Demolition Landfill  
KDHE Permit No. 738  
Galena, Cherokee County, Kansas

Air monitoring was conducted on September 18, 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 ( $\text{H}_2\text{S}$ ) in parts per billion (ppb) and a Landtec GEM5000 to monitor methane ( $\text{CH}_4$ ) concentrations as a percent of the lower explosive limit (LEL). These two instruments were calibrated prior to use, and a prevailing south-southwest 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 (south) side of the landfill boundary as a background location, and a total of three additional locations were monitored downwind along the north side of the property. The  $\text{H}_2\text{S}$  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 sampling locations except the second downwind location (Sample ID 26091803) registered no detectable  $\text{H}_2\text{S}$  concentrations ( $\geq 0.003$  ppm). Sample ID 26091803, located directly north of the center of the landfill, exhibited an intermittent sulfur odor and one detectable  $\text{H}_2\text{S}$  concentration of 0.00384 ppm throughout the 15-minute monitoring, leading to a TWA of 0.000256 ppm.

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.

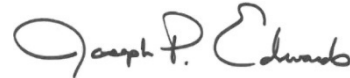
TriCore appreciates your time and consideration on this matter. If you have questions, comments, or need additional information, please do not hesitate to contact the undersigned.

Sincerely,

TriCore Group, LLC



Shane McKinzie



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 <sub>2</sub> S Readings |    |         |    |    |    |    |    |    |    |    |    |    |    |    | H <sub>2</sub> S<br>TWA | CH <sub>4</sub> |
|-----------|---------|-----------|--------------------------------------|----|---------|----|----|----|----|----|----|----|----|----|----|----|----|-------------------------|-----------------|
|           |         |           | 01                                   | 02 | 03      | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |                         |                 |
| 26091801  | 9/18/26 | 0818-0832 | 0                                    | 0  | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -                       | 0.0             |
| 26091802  | 9/18/26 | 0852-0906 | 0                                    | 0  | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -                       | 0.0             |
| 26091803  | 9/18/26 | 0912-0926 | 0                                    | 0  | 0.00384 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.000256                | 0.0             |
| 26091804  | 9/18/26 | 0930-0944 | 0                                    | 0  | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -                       | 0.0             |
| 26091805  | 9/18/26 | 0953      | 0                                    |    |         |    |    |    |    |    |    |    |    |    |    |    |    | n/a                     | 0.0             |

\*The H<sub>2</sub>S (hydrogen sulfide) results are reported in parts per million (ppm).

\*\*The CH<sub>4</sub> (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                                |
|-----------|---------|-----------|------------|-----------|----------------|------------------|-----------|--------------|-----------|---------------------|--------------------------------------------------|
| 26091801  | 9/18/26 | 0822-0824 | 37.07859   | -94.63203 | S              | 2.5              | 82.8      | 59.2         | 67.1      | 29.2                | Clear, sunny, no noticeable odor                 |
| 26091802  | 9/18/26 | 0853-0855 | 37.08206   | -94.62964 | S              | 4.5              | 85.7      | 53.7         | 67        | 29.23               | Clear, sunny, no noticeable odor                 |
| 26091803  | 9/18/26 | 0913-0915 | 37.08213   | -94.63183 | SSW            | 5.1              | 87.1      | 52.4         | 67.5      | 29.24               | Clear, sunny, light and intermittent sulfur odor |
| 26091804  | 9/18/26 | 0931-0933 | 37.08222   | -94.63416 | SSW            | 5.5              | 91        | 47           | 67.9      | 29.23               | Clear, sunny, light intermittent sulfur odor     |
| 26091805  | 9/18/26 | 0952-0954 | 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

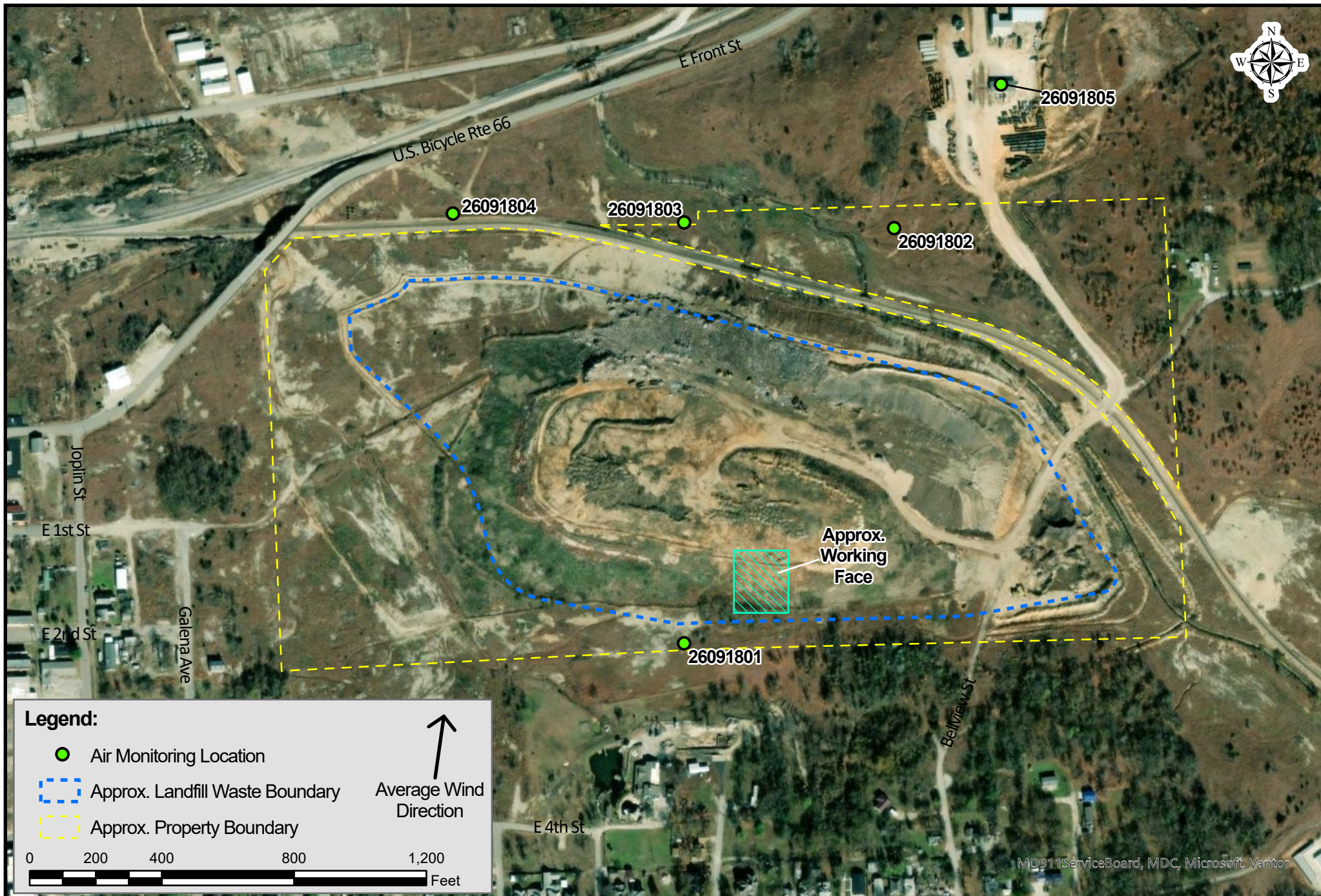


FIGURE 1  
 AMBIENT AIR MONITORING  
 JORDAN DISPOSAL LANDFILL  
 AIR MONITORING LOCATIONS 9/18/26



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: 9/29/26  
 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

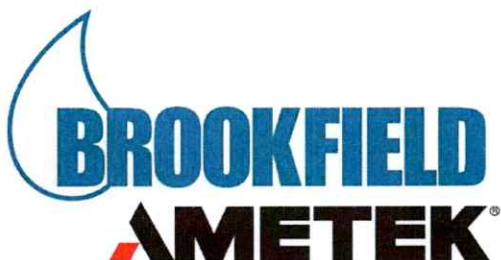
PROCEDURE #: 730-0099

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

**MODEL**

J605

**SRO NUMBER**

S211932

**SERIAL NUMBER**

60500759

### INCOMING

Calibration Gas

|                                                          |                                                          |                                    |
|----------------------------------------------------------|----------------------------------------------------------|------------------------------------|
|                                                          | Allowable Range $\pm 6\%$                                |                                    |
|                                                          | 0.47 to 0.53 ppm H <sub>2</sub> S                        | $\leq 3\%$                         |
| Concentration                                            | Mean @ Saturation                                        | Relative Standard Deviation        |
| <input type="text" value="0.5000"/> ppm H <sub>2</sub> S | <input type="text" value="0.0000"/> ppm H <sub>2</sub> 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 <sub>2</sub> S $\pm 6\%$             | $\leq 5\%$                         |
| Concentration                                           | Mean @ Saturation                                       | Relative Standard Deviation        |
| <input type="text" value="0.500"/> ppm H <sub>2</sub> S | <input type="text" value="0.502"/> ppm H <sub>2</sub> S | <input type="text" value="1.10%"/> |

Calibration Status as Left:

**In Calibration.**

Estimated Uncertainty of Calibration System: 3.5%



# 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 43683  
Description Landtec GEM5000  
Calibrated 9/15/2026 2:29:44PM

Manufacturer CES Landtec  
Model Number GEM5000  
Serial Number/ Lot G505601  
Number  
Location St. Louis  
Department

State Certified  
Status Pass  
Temp °C 22.2  
Humidity % 43

### Calibration Specifications

|                            |                |                |                 |                      |               |             |                  |
|----------------------------|----------------|----------------|-----------------|----------------------|---------------|-------------|------------------|
| Group # 1                  |                |                |                 | Range Acc % 0.0000   |               |             |                  |
| Group Name CH4             |                |                |                 | Reading Acc % 3.0000 |               |             |                  |
| Stated Accy Pct of Reading |                |                |                 | Plus/Minus 0.0       |               |             |                  |
| <u>Nom In Val / In Val</u> | <u>In Type</u> | <u>Out Val</u> | <u>Out Type</u> | <u>End As</u>        | <u>Lft As</u> | <u>Dev%</u> | <u>Pass/Fail</u> |
| 50.0 / 50.0                | %Volume        | 50.0           | %Volume         | 52.0                 | 50.0          | 0.00%       | Pass             |
| Group # 2                  |                |                |                 | Range Acc % 0.0000   |               |             |                  |
| Group Name CO2             |                |                |                 | Reading Acc % 3.0000 |               |             |                  |
| Stated Accy Pct of Reading |                |                |                 | Plus/Minus 0.0       |               |             |                  |
| <u>Nom In Val / In Val</u> | <u>In Type</u> | <u>Out Val</u> | <u>Out Type</u> | <u>End As</u>        | <u>Lft As</u> | <u>Dev%</u> | <u>Pass/Fail</u> |
| 35.0 / 35.0                | %Volume        | 35.0           | %Volume         | 34.8                 | 35.0          | 0.00%       | Pass             |
| Group # 3                  |                |                |                 | Range Acc % 0.0000   |               |             |                  |
| Group Name O2              |                |                |                 | Reading Acc % 3.0000 |               |             |                  |
| Stated Accy Pct of Reading |                |                |                 | Plus/Minus 0.0       |               |             |                  |
| <u>Nom In Val / In Val</u> | <u>In Type</u> | <u>Out Val</u> | <u>Out Type</u> | <u>End As</u>        | <u>Lft As</u> | <u>Dev%</u> | <u>Pass/Fail</u> |
| 20.9 / 20.9                | %Volume        | 20.9           | %Volume         | 21.7                 | 20.9          | 0.00%       | Pass             |
| Group # 4                  |                |                |                 | Range Acc % 0.0000   |               |             |                  |
| Group Name CO              |                |                |                 | Reading Acc % 3.0000 |               |             |                  |
| Stated Accy Pct of Reading |                |                |                 | Plus/Minus 0         |               |             |                  |
| <u>Nom In Val / In Val</u> | <u>In Type</u> | <u>Out Val</u> | <u>Out Type</u> | <u>End As</u>        | <u>Lft As</u> | <u>Dev%</u> | <u>Pass/Fail</u> |
| 1000 / 1000                | PPM            | 1000           | PPM             | 989                  | 1,000         | 0.00%       | Pass             |
| Group # 5                  |                |                |                 | Range Acc % 0.0000   |               |             |                  |
| Group Name H2S             |                |                |                 | Reading Acc % 3.0000 |               |             |                  |
| Stated Accy Pct of Reading |                |                |                 | Plus/Minus 0.0       |               |             |                  |
| <u>Nom In Val / In Val</u> | <u>In Type</u> | <u>Out Val</u> | <u>Out Type</u> | <u>End As</u>        | <u>Lft As</u> | <u>Dev%</u> | <u>Pass/Fail</u> |
| 50.0 / 50.0                | PPM            | 50.0           | PPM             | 49.0                 | 50.0          | 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** 43683

**Description** Landtec GEM5000

**Calibrated** 9/15/2026 2:29:44PM

| <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 /<br/>Lot Number</u> | <u>Last Cal Date /<br/>Opened Date</u> | <u>Next Cal Date /<br/>Expiration Date</u> |
| STL 50 CH4/35<br>CO2<br>L#304-4028832<br>4          | STL 50 CH4/35 CO2<br>L#304-402883248-1 | Gasco               | X03ME50CP5000<br>0  | 304-402883248<br>-1                   |                                        | 10/24/2027                                 |
| STL GEM+<br>BLEND<br>L#304-4036145<br>94-1          | STL GEM+ BLEND<br>L#304-403614594-1    | Gasco               | X03NI99CA34002<br>8 | 304-403614594<br>-1                   |                                        | 4/22/2028                                  |
| STL ZERO AIR<br>L#304-4027967<br>63-1               | STL ZERO AIR<br>L#304-402796763-1      | Gasco               | AIUZP15             | 304-402796763<br>-1                   |                                        | 9/6/2027                                   |

### Notes about this calibration

**Calibration Result** Calibration Successful

**Who Calibrated** Chris Harkins

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**

# CERTIFICATION OF CALIBRATION

Date Of Calibration: 14-Nov-2025



No. 66916



Certificate Number: G505601\_2/40075

Issued by: QED Environmental Systems Inc.

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

**Description:**

**Model:** GEM5000

**Serial Number:** G505601

**Accredited Results:**

| Methane (CH <sub>4</sub> ) |                        |                 |
|----------------------------|------------------------|-----------------|
| Certified Gas (%)          | Instrument Reading (%) | Uncertainty (%) |
| 5.0                        | 5.0                    | 0.42            |
| 15.0                       | 15.1                   | 0.66            |
| 60.0                       | 59.8                   | 1.03            |

| Carbon Dioxide (CO <sub>2</sub> ) |                        |                 |
|-----------------------------------|------------------------|-----------------|
| Certified Gas (%)                 | Instrument Reading (%) | Uncertainty (%) |
| 5.0                               | 4.9                    | 0.43            |
| 15.0                              | 15.0                   | 0.71            |
| 40.0                              | 40.1                   | 1.19            |

| Oxygen (O <sub>2</sub> ) |                        |                 |
|--------------------------|------------------------|-----------------|
| Certified Gas (%)        | Instrument Reading (%) | Uncertainty (%) |
| 21.2                     | 21.2                   | 0.25            |

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

CH<sub>4</sub>, CO<sub>2</sub> readings recorded at: 32.7 °C/90.8 °F

Barometric Pressure: 0981 mbar/28.97 "Hg

O<sub>2</sub> readings recorded at: 23.3 °C/74.0 °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](http://www.qedenv.com) (800) 624-2026 [info@qedenv.com](mailto:info@qedenv.com)

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

# CERTIFICATION OF CALIBRATION

Date Of Calibration: 14-Nov-2025



No. 66916



Certificate Number: G505601\_2/40075

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"              | 40.17"         | 2.0"     |
| Differential                                  | 0"              | 0"            | 4"               | 4.01"          | 0.7"     |

| Barometer (mbar)      |                       |
|-----------------------|-----------------------|
| Reference             | Instrument Reading    |
| 0981 mbar / 28.97 "Hg | 0981 mbar / 28.97 "Hg |

| Additional Gas Cells   |                     |                          |
|------------------------|---------------------|--------------------------|
| Gas                    | Certified Gas (ppm) | Instrument Reading (ppm) |
| H <sub>2</sub> S       | 250                 | 250                      |
| CO/H <sub>2</sub> COMP | 500                 | 499                      |

As received gas check readings:

| Methane (CH <sub>4</sub> ) |                        |
|----------------------------|------------------------|
| Certified Gas (%)          | Instrument Reading (%) |
| 5.0                        | 6.2                    |
| 15.0                       | 16.7                   |
| 60.0                       | 58.6                   |

| Carbon Dioxide (CO <sub>2</sub> ) |                        |
|-----------------------------------|------------------------|
| Certified Gas (%)                 | Instrument Reading (%) |
| 5.0                               | 5.5                    |
| 15.0                              | 16.0                   |
| 40.0                              | 41.3                   |

| Oxygen (O <sub>2</sub> ) |                        |
|--------------------------|------------------------|
| Certified Gas (%)        | Instrument Reading (%) |
| 21.2                     | 20.8                   |

As received Gas readings recorded at: 32.7 °C/90.8 °F

As received Barometric Pressure recorded at: 23.3 °C/74.0 °F

Date of Issue : 17 Nov 2025

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: I18 IGC Instance: I18

Page 2 of 2 | P0151-NANIST-1.1

[www.qedenv.com](http://www.qedenv.com) (800) 624-2026 [info@qedenv.com](mailto:info@qedenv.com)

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