Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
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Morgan Hill, California 95037
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TV Tracking #1039 (Semi-Annual)

1. ☐ RECEIVED IN ENFORCEMENT: 01/10/2025

January 9, 2025

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street. Suite 600
San Francisco, CA 94105
Attn: Title V Reports
Compliance@baaqmd.gov

Director of Enforcement Division
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attn: TRI and Air Section (ENF-2-1)
r9.aeo@epa.gov

SUBJECT: Combined Title V Semi-Annual and Partial 8-34 Annual Report 40 CFR 63
Subpart AAAA Semi-Annual Report
The Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive, San Jose, CA 95037
Facility Number A1812

Dear Sir or Madam:

The Kirby Canyon Recycling & Disposal Facility (KCRDF) is pleased to submit the attached Combined Title V Semi-Annual and Partial 8-34 Annual Report for the period of July 1, 2024, through December 31, 2024, to the Bay Area Air Quality Management District (BAAQMD) and the United States Environmental Protection Agency (USEPA), Region IX. As required by 40 Code of Federal Regulations (CFR) Part 63 Subpart AAAA, the Semi-Annual Startup, Shutdown and Malfunction (SSM) Report is also enclosed. The Combined Title V Semi-Annual and Partial 8-34 Annual Report satisfies the requirements of the Title V Permit listed in Condition Number 1437 Part 16 and Standard Condition I.F.

Based on information and belief formed after reasonable inquiry, I certify under penalty of law that the statements included in this report are true, accurate, and complete.

Sincerely,

The Kirby Canyon Recycling & Disposal Facility

Mike Tejero
District Manager

Attachments: Combined Title V Semi-Annual and Partial 8-34 Annual Report

Combined
Title V Semi-Annual and Partial 8-34 Annual Report
For the Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, California 95037
Facility Number A1812
July 1, 2024, through December 31, 2024

Submitted on:
January 10, 2025

Prepared for:
The Kirby Canyon Recycling & Disposal Facility

For Submittal to:
The Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
Attn: Title V Reports

and

USEPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105
Attn: Director Enforcement Division, TRI & Air Section (ENF-2-1)

Prepared by:

WASTE MANAGEMENT

Kirby Canyon Recycling & Disposal Facility

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1 INTRODUCTION

1.1 Purpose

This document is a Combined Semi-Annual Title V Report and Partial 8-34 Annual Report for the Kirby Canyon Recycling & Disposal Facility (KCRDF), pursuant to Title V Permit Standard Condition 1.F and Condition Number 1437 Part 16. This Combined Report satisfies the requirements of Regulation 8, Rule 34, Section 411 of the Bay Area Air Quality Management District (BAAQMD) and Title 40 Code of Federal Regulations (CFR) Part 60 Subpart CC, Emission Guidelines (EG) for municipal solid waste (MSW) landfills. This Combined Report meets the requirements of Title V Standard Condition 1.F, BAAQMD Regulation 8-34-411, and 40 CFR §60.757(f) and 40 CFR part 62, Subpart F and OOO and covers compliance activities conducted from July 1, 2024, through December 31, 2024. During the timeframe included in this report from July 1, 2024, through December 31, 2024, the site began compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA (effective September 27, 2021) for wellhead temperature and pressure standards. This Combined Report also includes the Semi-Annual Report of Start-up, Shutdown and Malfunction (SSM) Plan activities pursuant to National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 63, Subpart AAAA for Landfills.

Section 2 of this Combined Report contains the elements required to satisfy both BAAQMD Regulation 8-34-411 and 40 CFR §60.757(f). A Performance Test Report for the A-12 Flare that meets the requirements of both BAAQMD Regulation 8-34-413 and 40 CFR §60.758(g) was conducted on February 14, 2024. Section 3 of this Combined Report includes performance test data collected during the reporting period as well as a discussion of the data from the Performance Test for the A-12 Flare, in compliance with BAAQMD Regulation 8-34-412, and Title V Permit Condition Number 1437 Parts 12 and 13. The February 14, 2024, Performance Test Report results for the A-12 Flare are included in Appendix O of the Combined Report.

Section 4 contains the Semi-Annual Report of SSM Plan activities.

1.2 Record Keeping and Reporting

Records are maintained and available for inspection in accordance with BAAQMD Regulation 8-34-501.12 and 40 CFR §60.758. The primary location for records storage is at the KCRDF. Records are maintained at this location for a minimum of five years.

1.3 Report Preparation

This Combined Report has been prepared by the KCRDF.

2 SEMI-ANNUAL MONITORING REPORT

In accordance with the KCRDF Title V Permit Standard Condition 1.F; Condition 1437, Part 16; BAAQMD Regulation 8-34-411 and 40 CFR §60.757(f), this report is a Combined Semi-Annual Title V Report and Partial 8-34 Annual Report that is required to be submitted by the KCRDF. The report contains monitoring data for the operation of the landfill gas collection and control system (GCCS). The operational records have been reviewed and summarized. The timeframe included in this report is July 1, 2024, through December 31, 2024. The following table lists the rules and regulations that are required to be included in this Combined Report.

Table 2-1 Semi-Annual Report Requirements

RULE	REQUIREMENT	LOCATION IN REPORT
8-34-501.1 §60.757(f)(4)	All collection system downtime, including individual well shutdown times and the reason for the shutdown.	Section 2.1, Appendices B & C
8-34-501.2 §60.757(f)(3)	All emission control system downtime and the reason for the shutdown.	Section 2.2, Appendix B
8-34-501.3, 8-34-507, §60.757(f)(1)	Continuous temperature for all operating flares and any enclosed combustor subject to Section 8-34-507.	Section 2.3, Appendix D
8-34-501.4, 8-34-510	Testing performed to satisfy any of the requirements of this Rule.	Sections 2.4 & 2.10, Appendix E
8-34-501.5, 8-34-505	Monthly landfill gas (LFG) flow rates and well concentration readings for facilities subject to 8-34-404.	Sections 2.5, 2.10 & 2.11, Appendices I & L
8-34-501.6, 8-34-503, 8-34-506, §60.757(f)(5)	For operations subject to Section 8-34-503 and 8-34-506, records of all monitoring dates, leaks in excess of the limits in Section 8-34-301.2 or 8-34-303 that are discovered by the operator, including the location of the leak, leak concentration in parts per million by volume (ppmv), date of discovery, the action taken to repair the leak, date of the repair, date of any required re-monitoring, and the re-monitored concentration in ppmv.	Section 2.6 & 2.7, Appendices F & G
8-34-501.7	Annual waste acceptance rate and current amount of waste in place.	Section 2.8
8-34-501.8	Records of the nature, location, amount, and date of deposition of non-degradable wastes, for any landfill areas excluded from the collection system requirement as documented in the Collection and Control Design Plan.	Section 2.9
8-34-501.9, 8-34-505, §60.757(f)(1)	For operations subject to Section 8-34-505, records of all monitoring dates and any excesses of the limits stated in Section 8-34-305 that are discovered by the operator, including well identification number, the measured excess, the action taken to repair the excess, and the date of repair.	Section 2.10, Appendices I & K
8-34-501.10, 8-34-508, §60.757(f)(1)	Continuous gas flow rate records for any site subject to Section 8-34-508.	Section 2.11, Appendix L
8-34-501.11, 8-34-509	For operations subject to Section 8-34-509, records or key emission control system operating parameters.	Section 2.2.2

Table 2-1 (Continued)

RULE	REQUIREMENT	LOCATION IN REPORT
8-34-501.12	The records required above shall be made available and retained for a period of five years.	Section 1.2
§60.757(f)(2)	Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under §60.756.	Section 2.2.1
§60.757(f)(6)	The date of installation and the location of each well or collection system expansion added pursuant to paragraphs (a)(3), (b), (c)(4) of §60.755.	Section 2.13
§60.10 (d)(5)(i)	Start-up, Shutdown, and Malfunction Events	Section 4, Appendices B & C
§63	Subpart AAAA	Section 2.10

2.1 Collection System operation (BAAQMD 8-34-501.1 & §60.757(f)(4))

Appendix A contains a map of the KCRDF's existing landfill GCCS. Section 2.1.1 summarizes the collection system downtime. Section 2.1.2 includes the individual well shutdown times and the reason for each shutdown.

2.1.1 Collection System Downtime

During the period covered in this report, the landfill GCCS was not shut down for more than five days on any one occasion. The total GCCS Downtime for the reporting period of July 1, 2024, through December 31, 2024, is 28.6 hours. The downtime for the 2024 calendar year is 59.6 hours out of an allowable 240 hours per year pursuant to BAAQMD Regulation 8-34-113.2 (Limited Exemption, Inspection and Maintenance). The Flare SSM Log that list dates, times, and lengths of shutdowns for the reporting period is included in Appendix B.

2.1.2 Well Start-Up and Disconnection Log

There were seventeen (17) Well SSM events during the reporting period. Wellfield construction activity is discussed in Section 2.13.

The Wellfield SSM Log that list dates, times, and lengths of shutdowns for the reporting period is included in Appendix C.

2.2 Emission Control Device Downtime (BAAQMD 8-34-501.2 & §60.757(f) (3))

No bypassing of the control system or other emissions of raw LFG occurred during the reporting period. The SSM Log that includes all downtimes and reasons for each shutdown for the A-12 Flare is presented in Appendix B. As indicated in Section 2.1.1, the collection system downtime for the 2024 calendar year (January 1, 2024, through

December 31, 2024) is 59.6 hours out of an allowable 240 hours per year pursuant to BAAQMD Regulation 8-34-113.2 (Limited Exemption, Inspection and Maintenance).

During the reporting period, KCRDF submitted the BAAQMD Reportable Compliance Activity Form for temporary flare shutdown event on August 26, 2024 (RCA Number RCA 200588), caused due to unplanned utility power interruption. KCRDF submitted the 30-day breakdown report letters and the Title V 10 and 30-day letters. Copies of submitted letters are included in Appendix J.

2.2.1 LFG Bypass Operations (§60.757(f)(2))

Title 40 CFR §60.757(f)(2*)* is not applicable at the KCRDF because a bypass line has not been installed. LFG cannot be diverted from the control equipment.

2.2.2 Key Emission Control Operating Parameters (BAAQMD 8-34-501.11 & 8-34-509)

The A-12 Flare is subject to continuous temperature monitoring as required in BAAQMD Regulation 8-34-507 and §60.757(f)(1). See Section 2.3 for flare temperature monitoring results.

2.3 Temperature Monitoring Results (BAAQMD 8-34-501.3, 8-34-507, & §60.757(f)(1))

The combustion zone temperature of the A-12 Flare is monitored with Type K Thermocouples. The temperature is displayed and digitally recorded with a General Electric (GE) data panel and Yokogawa FX112 continuous digital recorder. The temperature readings are downloaded and archived each working day.

Flare operating records indicate that the A-12 Flare three-hour average combustion zone temperature did not drop below the 1,400 degrees Fahrenheit (°F) limit, as required by Title V Permit A1812 Condition 1437 Part 10, during the reporting period when the A-12 Flare was in operation.

The flare operating records also indicate that the A-12 Flare combustion zone temperature did not drop below 1,412°F on a three-hour average basis, while in operation during the other reporting periods, pursuant to the limits established during the February 14, 2024, Performance Tests.

Appendix D contains flare temperature deviation/ inoperative monitor reports for the reporting period while the A-12 Flare was in operation.

2.4 Monthly Cover Integrity Monitoring (BAAQMD 8-34-510)

The Monthly Cover Integrity Monitoring Reports are included in Appendix E. The cover integrity monitoring was performed on the following dates:

- July 25, 2024
- August 5,6 and 26, 2024
- September 26, 2024
- October 7, 8, and 28, 2024
- November 26, 2024
- December 16, 2024

During the reporting period, site technician noted few locations with surface cracks and ponding. No other areas of concern were found during the reporting period. See Appendix E, Cover Integrity Monitoring Reports for repair details.

2.5 Less than Continuous Operation (BAAQMD 8-34-501.5)

The KCRDF does not operate under BAAQMD Regulation 8-34-404 (Less Than Continuous Operation) and therefore is not required to submit monthly LFG flow rates.

2.6 Surface Emissions Monitoring (BAAQMD 8-34-501.6, 8-34-506, & §60.757(f)(5))

Quarterly Surface Emissions Monitoring (SEM), pursuant to BAAQMD Regulation 8-34-506, occurred during the reporting period on the following dates:

- Third Quarter 2024 – July 24, 2024
- Fourth Quarter 2024 – December 2, 2024

A Thermo Scientific Toxic Vapor Analyzer 1000 (TVA1000) flame ionization detector (FID) was used to perform the SEM during the Third and Fourth Quarter 2024 events. The landfill surface was monitored along the path delineated on the SEM walking path map. Any areas suspected of having emission problems by visible observations were also monitored. Immediately prior to the Third and Fourth Quarter 2024 monitoring events, the monitoring equipment was calibrated using zero air and 500 parts per million by volume (ppmv) methane (CH_4) calibration gas.

The Third Quarter 2024 routine SEM was performed on July 24, 2024, and two (2) exceedances (FID readings greater than 500 ppm CH_4 above background measurements) were detected. The ten-day re-monitoring event was conducted on July 24, 2024, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on August 16, 2024, and no exceedances were detected.

The Fourth Quarter 2024 SEM was performed on December 2, 2024, and nine (9) exceedances (FID readings greater than 500 ppm CH_4 above background measurements) were detected. Corrective actions were completed. The ten-day re-monitoring event was conducted on December 3, 2024, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on December 20, 2024, and no exceedances were detected. The Third and Fourth Quarter 2024 SEM Reports are included in Appendix F.

2.7 Component Leak Testing (BAAQMD 8-34-501.6 & 8-34-503)

Quarterly component leak testing, pursuant to BAAQMD Regulation 8-34-503, occurred during the reporting period on the following dates:

- Third Quarter 2024 – July 24, 2024
- Fourth Quarter 2024 – December 2, 2024

A Thermo Scientific TVA1000 FID was used to perform both the Third and Fourth Quarter 2024 component leak testing events. No exceedances of 1,000 ppm were identified during the Third and Fourth Quarter 2024 monitoring events.

Appendix G contains the Quarterly Component Leak Check Monitoring Reports.

2.8 Solid Waste Placement Records (BAAQMD 8-34-501.7)

The solid waste placement records were reviewed for the timeframe of July 1, 2024, through December 31, 2024. The current waste-in-place figure includes solid waste placed in the landfill through December 31, 2024. A table of monthly totals for the reporting period is provided in Appendix H. The total waste accepted and placed at the KCRDF landfill did not exceed the 2,600 ton-per-day limit during the reporting period, pursuant to Title V Permit Condition Number 1437, Part 1a. The current waste-in-place tonnage listed below did not exceed the 19.84 million tons limit as required in the Title V Permit Condition Number 1437, Part 1b. Table 2-2 summarizes the solid waste placement records for the reporting period.

Table 2-2 Solid Waste Placement

Waste Placement	Total Waste Landfilled Excluding Cover
July 1, 2024, through December 31, 2024	127,230 tons
Current Waste-In-Place as of December 31, 2024	Approximately 8.83 Million tons

2.9 Non-degradable Waste Acceptance Records (BAAQMD 8-34-501.8)

The GCCS Design Plan for the KCRDF does not include non-degradable waste areas that are excluded from the collection system. Therefore, BAAQMD Regulation 8-34-501.8 is not applicable.

2.10 Wellhead Monitoring Data (BAAQMD 8-34-501.4 & 8-34-505)

Wellhead monitoring was performed on a monthly basis pursuant to BAAQMD Regulation 8-34-505. Effective September 27, 2021, the site began compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards. The well readings for July 1, 2024, through December 31, 2024, are included in Appendix I. Each well was monitored in accordance with the following requirements:

- 8-34-305.1 – Each wellhead shall operate under a vacuum.
- 8-34-305.2 – The LFG temperature in each wellhead shall be less than 55 degrees Celsius (131°F).
- 8-34-305.4 – The oxygen (O_2) concentration in each wellhead shall be less than 5 percent (%) by volume.

The wellhead monitoring was performed on the following dates:

- July 2, 3, 12, 15, 16, 17, and 18, 2024
- August 1, 2, 5, and 7, 2024
- September 3, 4, 5, and 6, 2024
- October 1, 2, 3, 4, and 22, 2024
- November 1, 4, 5, 5, and 11, 2024
- December 2, 3, 4, 7, 9, 10 and 12, 2024

2.10.1 Wellhead Deviations (BAAQMD 8-34-501.9 & §60.757(f)(1))

Please refer to the Wellfield Deviation Log, included in Appendix K, for exceedance records for the reporting period of July 1, 2024, through December 31, 2024. BAAQMD Regulation 8-34-305 (Wellhead Requirements) requires that each wellhead shall operate under a vacuum; wellhead temperature shall be less than 131°F (55 Degrees Celsius); and either the nitrogen concentration shall be less than 20 percent or the oxygen concentration shall be less than 5 percent. During this reporting period, there were no additional exceedances associated with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards.

2.10.2 Higher Operating Value (HOV) Wells

During the reporting period, the following wells are approved to operate at a higher operating value (HOV) temperature of 145°F: 51, 57, 58, 65, 66, 71, 74, 78, 86, 91, 92, 95, 98, 99, 119, 127, 128, 133, and 135. Wells 56, 75, 76, 87, and 89, are approved to operate at a HOV temperature of 156°F.

Copies of all BAAQMD correspondence are located in Appendix J.

2.11 Gas Flow Monitoring Results (BAAQMD 8-34-501.10, 8-34-508, & §60.757(f)(1)

The A-12 Flare LFG flow rate is measured continuously with a Kurz flowmeter. The LFG flow is displayed and digitally recorded with a General Electric data panel and Yokogawa FX112 continuous digital recorder. The flow meter is maintained pursuant to the manufacturer's recommendations. The flare flow meter meets the requirements of BAAQMD Regulation 8-34-508 by recording fuel flow at least every fifteen (15) minutes. Appendix D contains the specific details. The flow data for the flare are available for review at the KCRDF. Appendix L contains a summary of the monthly LFG flow rates and heat input for the flare.

Table 2-3 below is a summary of the LFG flow from July 1, 2024, through December 31, 2024, for the A-12 Flare. The A-12 Flare did not exceed the annual heat input rate of 1,087,700 million British Thermal Units (MMBTU), pursuant to Title V Permit A1812 Condition Number 1437, Part 8. The A-12 Flare did not exceed the permitted daily limit of 2,980 million British Thermal Units (BTU) for the duration of this event.

Table 2-3 Total LFG Flow A-12 Flare – July 1, 2024, through December 31, 2024

Emission Control Device	Average Flow (scfm)	Methane (%)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heat Input (MMBTU)
A-12 Flare	2,016	48.8	530,868,360	259,241,601	262,612

scfm = standard cubic feet per minute CH_4 = methane   % = percent   scf = standard cubic feet
**Methane concentration from February 14, 2024, Source Test for the A-12 Flare.*

2.12 Compliance with Title V Permit Cond. No. 1437, Part 14

The condensate injection rate did not exceed five (5) gallons per minute (gpm) during injection events (excluding startup times).

Table 2-4 summarizes the condensate injection rate and 12-month (consecutive) throughput in gallons for July 1, 2024, through December 31, 2024. Per Title V Permit A1812 Condition Number 1437 Part 14, the 12-month rolling average is below the permitted condensate injection limit of 2.0 million gallons per year. The monthly condensate injection logs are included in Appendix M.

Table 2-4 Condensate Injection Rates

Month	Average Condensate Injection Rate (gpm)	Monthly Condensate Injection Throughput (gallons)	Condensate Injection Throughput 12-Month Total (gallons)
July-24	2.3	37,755	726,407
August-24	2.2	51,321	729,025
September-24	2.5	52,143	724,867
October-24	2.6	55,991	727,704

Month	Average Condensate Injection Rate (gpm)	Monthly Condensate Injection Throughput (gallons)	Condensate Injection Throughput 12-Month Total (gallons)
November-24	2.5	62,691	728,451
December-24	2.6	57,515	695,564

gpm= gallons per minute

2.13 Compliance with §60.757(f)(6)

"The date of installation and the location of each well or collection system expansion added pursuant to (a)(3), (b), (c)(4) of §60.755."

The GCCS was modified pursuant to Title V Permit Number A1812 during the reporting period. During the reporting period, two vertical wells were decommissioned. No new vertical wells were started.

As of December 31, 2024, the GCCS system consists of 87 vertical wells, 0 horizontal collectors, and 4 leachate collection risers (LCRS).

2.14 Compliance with Title V Permit Cond. No. 1437, Parts 2 and 3

A total of 2,892.2 tons of contaminated soil containing volatile organic compounds (VOCs) greater than 50 parts per million (ppm) was received during the reporting period.

KCRDF suspects that approximately 19.5 tons of potentially contaminated soil was delivered on October 31, 2024, and applied for daily cover. On November 8, 2024, in an abundance of caution KCRDF submitted the 10-day notification to the BAAQMD for a potential deviation due to a customer mischaracterizing their soil material. The 30-day Title V letter was submitted on November 26, 2024. Copies of submitted letters are included in Appendix J.

Low-VOC soil (containing less than 50 ppm of VOCs) was received during the reporting period. Required records of soil acceptance are available for review at the KCRDF.

2.15 Compliance with Title V Permit Cond. No. 23022, Part 2

Diesel Engine S-8 (the diesel engine for the portable compressor) is required to be operated less than 1,290 hours during any consecutive 12-month period. S-8 operated a total of 68 hours during the 12-month period, January 1, 2024, through December 31, 2024. S-8 operated a total of 59 hours during the 6-month reporting period, July 1, 2024, through December 31, 2024. S-8 used a total of approximately 115 gallons of diesel fuel during the 6-month reporting period.

2.16 Compliance with Title V Permit Cond. No. 1437, Part 20

Effective July 2012, the A-12 Flare Sulfur dioxide emissions shall not exceed 300 ppmv and SO_2 (dry) emissions shall not exceed 94.9 tons per year. The total reduced sulfur (TRS) shall not exceed 860 ppmv (dry) expressed as hydrogen sulfide.

To demonstrate compliance with above limits, the site will conduct annual testing of total TRS at the landfill gas main header. The source test data for (source test conducted on February 14, 2024) TRS value was used to calculate the monthly SO_2 emissions in tons. The SO_2 emission did not exceed limit during the reporting period. The SO_2 tons 12-month rolling logs are included in Appendix P.

2.17 Compliance with Title V Permit Cond. No. 25872

To demonstrate compliance with permit limits for Source S-24, Construction & Demolition Debris Stockpile, the total construction & demolition debris accepted at S-24 in any consecutive 12-month period is limited to 104,000 tons and 500 tons for each day. To demonstrate compliance with Source S-25 Green and Wood Waste Stockpile the total combined green waste and wood waste debris accepted at S-25 in any consecutive 12-month period is limited to 250,000 and 4,500 tons each day. During the reporting period, the site did not exceed the permitted annual and daily limits. Required records are available for review at the KCRDF.

3 PERFORMANCE TEST REPORT

In accordance with BAAQMD Regulation 8-34-413 and 40 CFR §60.757(g) in the New Source Performance Standard (NSPS), a Performance Test Report is required to be submitted from subject facilities containing performance and monitoring data for the operation of the GCCS. The operational records listed in Table 3-1 have been reviewed, summarized, and are included in this Performance Test Report.

Table 3-1 Performance Test Requirements

RULE	REQUIREMENT	LOCATION IN REPORT
8-34-412, §60.8, §60.752(b)(2)(iii)(B), §60.754(d)	Compliance Demonstration Test	Section 3.1, Appendix O
§60.757(g)(1)	A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for future collection system expansion.	Section 3.2, Appendix A
§60.757(g)(2)	The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based.	Section 3.3
§60.757(g)(3)	The documentation of the presence of asbestos or non-degradable material for each area from which collection wells have been excluded based on the presence of asbestos or non-degradable material.	Section 3.4
§60.757(g)(4)	The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on non-productivity and the calculations of gas generation flow rate for each excluded area.	Section 3.5
§60.757(g)(5)	The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill.	Section 3.6
§60.757(g)(6)	The provisions for the control of off-site migration.	Section 3.7 Appendix N

3.1 A-12 Flare Performance Test Results (BAAQMD 8-34-412)

The most recent A-12 Flare Compliance Demonstration Test (Performance Test) was performed on the A-12 Flare by Blue Sky Environmental, LLC on February 14, 2024, pursuant to Title V Permit A1812 Condition Number 1437 Part 12. The Performance Test Report for the A-12 Flare indicates that the flare is in compliance with BAAQMD Regulation 8-34-301.3. As required by BAAQMD Regulation 8-34-301.3, the flare meets the non-methane organic compound (NMOC) emission rate of less than 30 ppmv. Pursuant to Title V Permit A1812 Condition Number 1437 Part 10, the A-12 Flare meets the oxides of nitrogen (NO_x) emission concentration limit of less than 0.06 pounds (lbs)/MMBTU. The A-12 Flare meets the carbon monoxide (CO) emission concentration limit of less than 0.3 lbs/MMBTU, pursuant to Title V Permit A1812 Condition Number 1437 Part 11. Table 3-2 shows the results of the A-12 Flare Performance Test, averaged from six test runs - three with condensate on, and three with condensate off.

The A-12 2024 Source Test Report was submitted to the BAAQMD on April 11, 2024, within 60 days of the test date. The source test correspondence and results for the above control device is included in Appendix O.

Table 3-2 A-12 Flare Performance Test Results – February 14, 2024

Condition	Flare (A-12) Average Results		8-34-301.3 limit	Compliance Status
	Condensate ON	Condensate OFF		
NMOC (ppmv @ 3% O_2, as CH_4)	<2.5	<2.5	30 ppmv	In Compliance
NO_x, lbs/MMBTU	0.0439	0.0383	0.06	In Compliance
CO, lbs/MMBTU	0.0704	0.0619	0.30	In Compliance

3.2 Compliance with §60.757(g)(1)

"A diagram of the collection system showing collection system positioning including wells, horizontal collectors…"

A map dated November 30, 2023, of the landfill GCCS showing the positioning of all vertical wells, horizontal collectors, and other LFG extraction devices is included in Appendix A.

3.3 Compliance with §60.757(g)(2)

"The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based."

The KCRDF GCCS has historically provided LFG wells and collectors spaced in accordance with standard industry practices. The A-12 flare, LFG extraction wells, and piping are more than adequate to move the current LFG flow rate. KCRDF will continue to add additional LFG control capacity as necessary with the approval of BAAQMD. The installed collector density appears more than adequate for controlling surface emissions, based on continuous compliance and operational experience.

The total capacity of the LFG mover equipment was designed and will be designed to meet the current United States Environmental Protection Agency (USEPA) Model AP- 42 projections of LFG generation and the historic LFG extraction rates determined to be continuously available from the facility.

Demonstrating Compliance with §60.757(g)(2)

"The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based."

Compliance with 40 CFR §60.757(g)(2) is maintained by performing quarterly SEM. Refer to Section 2.6, Surface Emissions Monitoring for information pertaining to the SEM results. These results show that the GCCS has sufficient coverage over the waste footprint. Combined LFG recovery for the reporting period was 2,016 scfm. The current A-12 flare system has the capacity to destroy ~ twice the actual recovery. Well monitoring data shows that adequate vacuum is available at all points in the wellfield, demonstrating that the piping network is sufficient to handle all extracted LFG.

3.4 Compliance with §60.757(g)(3)

"The documentation of the presence of asbestos or non-degradable material for each area from which collection wells have been excluded based on the presence of asbestos or non-degradable material."

There are no segregated areas or accumulations of asbestos material documented for the site in the GCCS Design Plan. Therefore, 40 CFR §60.757(g)(3) is not applicable.

3.5 Compliance with §60.757(g)(4)

"The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on non-productivity and the calculations of gas generation flow rate for each excluded area."

Non-productive areas have not been excluded from the coverage of the GCCS. Therefore, 40 CFR §60.757(g)(4) is not applicable.

3.6 Compliance with §60.757(g)(5)

"The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill."

The A-12 Flare and blower system were installed in October and November 2007 and started up on December 3, 2007. The A-12 Flare and blower system is anticipated to be able to accommodate the expected LFG flow rate over the life of the landfill.

3.7 Compliance with §60.757(g)(6)

"The provisions for the control of off-site migration."

Quarterly LFG migration monitoring, including all on-site buildings, occurred on the following dates:

- Third Quarter 2024 – July 15, 2024
- Fourth Quarter 2024 – October 18, 2024

All probes were in compliance with no detections above the 5.0 percent methane limit during the Third and Fourth Quarter 2024 monitoring events. There were no LFG migration occurrences at the KCRDF, and no areas of concern were identified during the Third and Fourth Quarter 2024 monitoring events. The LFG migration monitoring and building monitoring results for both quarterly events are included in Appendix N.

Demonstrating Compliance with §60.757(g)(6)

"The provisions for the control of off-site migration."

The landfill operator will continue surface and perimeter monitoring in accordance with the approved monitoring plans. If the GCCS at the KCRDF does not meet the measures of performance set forth in the NSPS/EG, the GCCS will be adjusted or modified in accordance with the NSPS/EG requirements.

4 START-UP, SHUTDOWN, MALFUNCTION REPORT

4.1 SSM Report for the Collection and Control Systems at the KCRDF

The NESHAPS contained in 40 CFR Part 63, AAAA for MSW landfills to control hazardous air pollutants include the regulatory requirements for submittal of a Semi-Annual Report (under 40 CFR §63.10(d)(5) of the general provisions) if an SSM event occurred during the reporting period. The reports required by §63.1980(a) of the NESHAP and §60.757(f) of the NSPS summarize the GCCS exceedances. These two Semi-Annual Reports contain similar information and have been combined as allowed by §63.10(d)(5)(i) of the General Provisions.

NESHAP 40 CFR Part 63, AAAA became effective on January 16, 2004. Those SSM events that occurred during the semi-annual reporting period are reported in this section (July 1, 2024-December 31, 2024). The following information is included as required:

- During the reporting period, seventeen (17) A-12 Flare SSM events occurred. During the reporting period. The A-12 Flare shut down and restarted during the reporting period due to the reasons noted in the Flare SSM Log, located in Appendix B.
- During the reporting period, seventeen (17) wellfield SSM events occurred. Details are included in the Wellfield SSM Log, located in Appendix C.
- During the reporting period, there was one (1) monitoring/recorder equipment SSM events occurred.
- In all thirty-five (35) events, automatic systems and operator actions were consistent with the standard operating procedures contained in the SSM Plan.
- No exceedances of any applicable emission limitation in the landfills NESHAP (63.10(d)(5)(i)) occurred.
- Revisions of the SSM Plan to correct deficiencies in the landfill operations or procedures were neither required, nor prepared (§63.6(e)(3)(viii)).

I certify the following:

> ***Based on information and belief formed after reasonable inquiry, information on the startup, shutdown, malfunction forms, all accompanying reports, and other required certifications are true, accurate, and complete.***

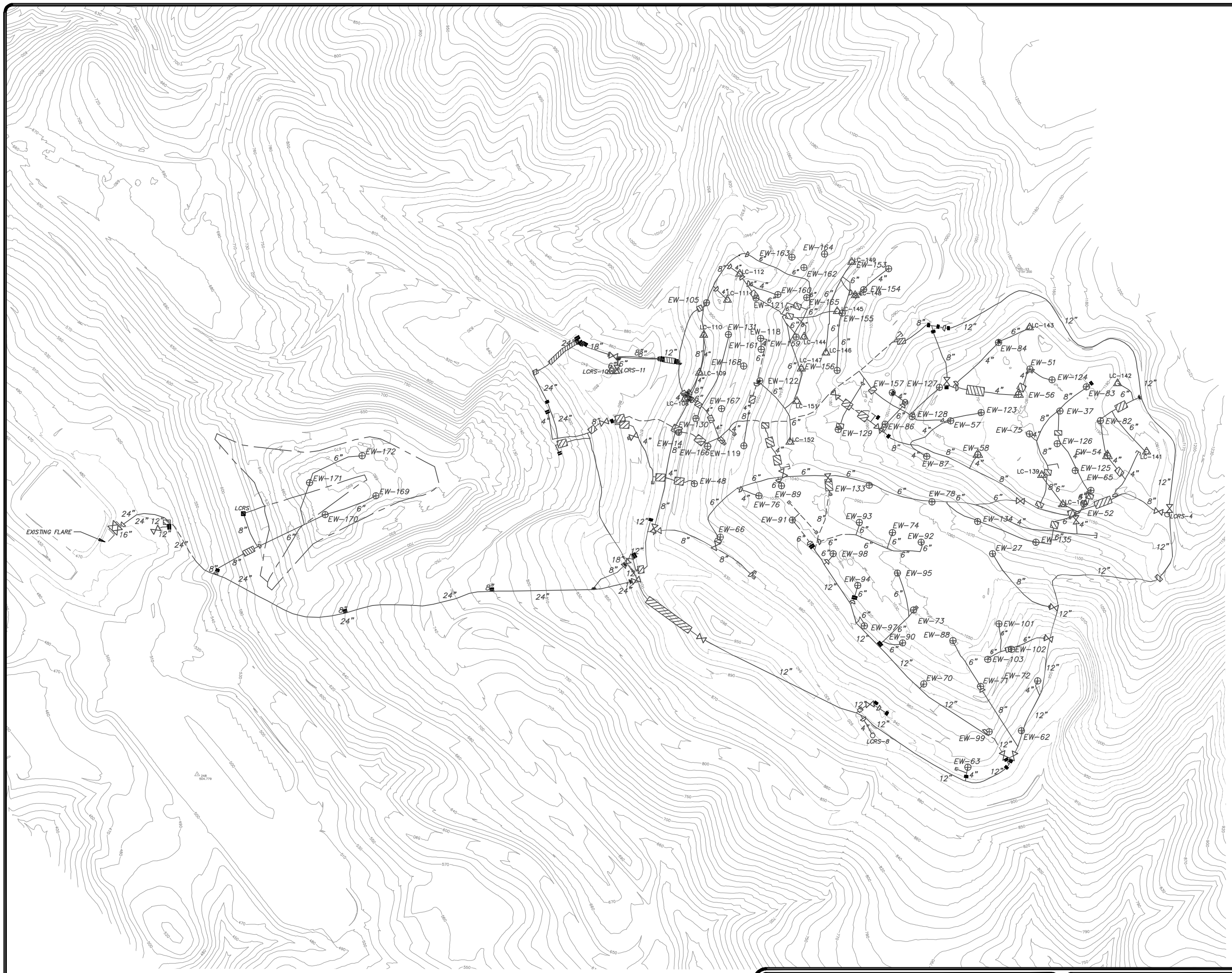
Signature of Responsible Official

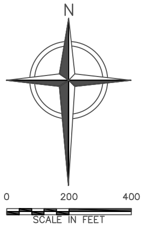
01.9.2025
Date

Mike Tejero
Name of Responsible Official

APPENDIX A

LANDFILL GAS COLLECTION SYSTEM SITE MAP





LEGEND

—1400—	EXISTING 10' CONTOUR
—12"—	EXISTING ABOVEGROUND PIPING
– – – –12"– – – –	EXISTING BELOWGROUND PIPING
— · — · — · —	EXISTING HORIZONTAL COLLECTOR
———— — ———	EXISTING LCRS COLLECTION PIPING
⊕ EW-3	EXISTING LFG EXTRACTION WELL
△ LC-108	EXISTING LOCAL CONTROL WELL
⊗	EXISTING REMOTE WELLHEAD
○ H6	EXISTING HORIZONTAL COLLECTOR WELLHEAD
⋈	EXISTING CONTROL VALVE
—▌	EXISTING BLIND FLANGE
—▌—	EXISTING FLANGE CONNECTION
—▷—	EXISTING REDUCER FITTING
▨	EXISTING ROAD CROSSING
○ RISER	EXISTING RISER
—]	EXISTING CAP ON EXISTING PIPE
■	EXISTING LCRS WELLHEAD

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: JANUARY 26, 2023.
2. SUPPLEMENTAL 2016 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JULY 19, 2017. WELL LOCATIONS PER RECORD DRAWINGS WELL SCHEDULE DATED: JULY 13, 2016.
3. 2017 GCCS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: OCTOBER 11, 2017
4. 2019 GCCS AS-BUILT SURVEYS PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 19, 2019 AND DECEMBER 30, 2019
5. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM DATED: JANUARY 27 AND 30, 2020, AND BY SCS ENGINEERS DATED: FEBRUARY 4, 2020.
6. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
7. SUPPLEMENTAL 2020 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 3, 2020, NOVEMBER 5, 2020 AND NOVEMBER 6, 2020.
8. 2021 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 4, 2021.
9. 2022 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: SEPTEMBER 29, 2022.
10. 2023 GCCS IMPROVEMENTS PRE-CONSTRUCTION SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: MAY 3, 2023.
11. SUPPLEMENTAL 2023 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 22, 2023

RECORD DRAWINGS

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 11/30/23
DRAWN BY KT
DESIGNED BY CME
CHECKED BY AMN
APPROVED BY PJS

TETRA TECH

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2023 AS-BUILT

AS-BUILT SITE PLAN

SHEET NO.
1

PROJECT NO.
230053

File: X:\PROJECTS\KIRBY CANYON\230053 - 2023 AS-BUILT UPDATE\Project Drawings\230053-KIRBY CYN_2023 AS BUILT_11.29.23.dwg Layout: S1 User: KEPLER.TSE Nov 30, 2023 - 9:22am

APPENDIX B

FLARE SSM LOG AND GCCS DOWNTIME REPORT

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG
AFFECTED EQUIPMENT: A-12 Flare

Completed By: Rajan Phadnis/Tino Robles

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
SSMP REPORT - From July 1 through December 31, 2024

Identify Flare & Check Applicable Event	(1) Start of Event `	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/02/24 09:02	7/02/24 09:06	0.07	1.2	Flare shutdown due to air compressor fault. Technician added oil and conducted inspection and maintenance. Third party vendor was contacted. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/2/2024	☐ Manual (Go to Section 9) ☒ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☐ No (Stop)	☐ Yes (Go to Section 12) ☒ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/02/24 10:14	7/02/24 10:20	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/2/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/02/24 10:58	7/02/24 11:02	0.07	0.7	Flare shutdown due to compressor high temperature alarm. Rental compressor was ordered. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/2/2024	☐ Manual (Go to Section 9) ☒ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☐ No (Stop)	☐ Yes (Go to Section 12) ☒ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/02/24 11:42	7/02/24 11:48	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/2/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/03/24 08:44	7/03/24 08:48	0.07	0.5	Flare was shutdown to during vendor inspection on compressor system. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 3	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/03/24 09:16	7/03/24 09:22	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 4	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/03/24 11:56	7/03/24 12:00	0.07	0.4	Flare shutdown due to compressor high temperature alarm. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☐ Manual (Go to Section 9) ☒ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☐ No (Stop)	☐ Yes (Go to Section 12) ☒ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/03/24 12:18	7/03/24 12:24	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/03/24 14:46	7/03/24 14:50	0.07	3.4	Flare shutdown due to compressor high temperature alarm. During technician inspection on the flare system, PG&E power was lost. Emergency generator was started. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☐ Manual (Go to Section 9) ☒ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☐ No (Stop)	☐ Yes (Go to Section 12) ☒ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/03/24 18:08	7/03/24 18:14	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/03/24 18:50	7/03/24 18:54	0.07	0.03	Flare shutdown to switchover to utility power after power was restored. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 3	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/03/24 18:52	7/03/24 18:58	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 4	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/03/24 18:54	7/03/24 18:58	0.07	0.3	Flare shutdown during startup sequence. Technician performed inspection of flowmeter. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☐ Manual (Go to Section 9) ☒ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☐ No (Stop)	☐ Yes (Go to Section 12) ☒ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/03/24 19:10	7/03/24 19:16	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/28/24 10:52	7/28/24 10:56	0.07	1.5	Flare shutdown due to low temperature alarm caused by high wind condition. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/28/2024	☐ Manual (Go to Section 9) ☒ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☐ No (Stop)	☐ Yes (Go to Section 12) ☒ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/28/24 12:20	7/28/24 12:26	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/28/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	8/26/24 14:02	8/26/24 14:06	0.07	0.6	Flare shutdown during unplanned power outage event. RCA was filed. RCA number 200588 was assigned. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	8/26/2024	☐ Manual (Go to Section 9) ☒ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☐ No (Stop)	☐ Yes (Go to Section 12) ☒ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	8/26/24 14:38	8/26/24 14:44	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	8/26/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG
AFFECTED EQUIPMENT: A-12 Flare

Completed By: Rajan Phadnis/Tino Robles

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
SSMP REPORT - From July 1 through December 31, 2024

Identify Flare & Check Applicable Event	(1) Start of Event `	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	8/26/24 16:06	8/26/24 16:10	0.07	0.6	Flare shutdown to switchover to utility power. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	8/26/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 3	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	8/26/24 16:42	8/26/24 16:48	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	8/26/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 4	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	9/11/24 10:28	9/11/24 10:32	0.07	5.8	Flare was shutdown to connect air compressor to Generator ATS unit. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	9/11/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 3	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	9/11/24 16:14	9/11/24 16:20	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	9/11/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 4	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	10/05/24 04:42	10/05/24 04:46	0.07	1.3	Flare shutdown due to rental compressor fault alarm. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	10/5/2024	☐ Manual (Go to Section 9) ☒ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☐ No (Stop)	☐ Yes (Go to Section 12) ☒ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	10/05/24 06:00	10/05/24 06:06	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	10/5/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	12/06/24 20:16	12/06/24 20:20	0.07	1.2	Flare shutdown due to low temperature alarm. Adjusted louvers. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/6/2024	☐ Manual (Go to Section 9) ☒ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☐ No (Stop)	☐ Yes (Go to Section 12) ☒ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	12/06/24 21:30	12/06/24 21:36	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/6/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	12/11/24 08:26	12/11/24 08:30	0.07	9.8	Flare was shutdown to install new blower. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/11/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 3	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	12/11/24 18:12	12/11/24 18:18	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/11/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 4	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	12/13/24 08:58	12/13/24 09:02	0.07	0.6	Flare was shutdown during testing on new blower. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/13/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 3	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	12/13/24 09:36	12/13/24 09:42	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/13/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 4	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	12/16/24 14:30	12/16/24 14:34	0.07	0.4	Flare was shutdown for inspection on KOP and condensate injection system. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/16/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 3	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	12/16/24 14:54	12/16/24 15:00	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/16/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 4	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	12/17/24 13:20	12/17/24 13:24	0.07	0.4	Flare was shutdown during third party maintenance on condensate injection system and troubleshooting on pilot. Flare was inspected and restarted.	☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/17/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 3	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	
Component: A-12 Flare ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	12/17/24 13:42	12/17/24 13:48	0.10			☒ 113: Inspection and Maintenance ☐ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/17/2024	☒ Manual (Go to Section 8) ☐ Automatic (Go to Section 10)	Procedure 1 to 4	☐ Yes (Go to Section 10) ☒ No (Stop)	☐ Yes (Go to Section 11) ☐ No (Stop)	

TOTAL DOWNTIME 2024 (HOURS):	**59.6**
TOTAL DOWNTIME From July 1 2024 through December 31, 2024 (HOURS):	**28.6**
TOTAL PERMITTED GCCS DOWNTIME FOR 1 YEAR (HOURS):	**240.0**
TOTAL AVAILABLE RUNTIME From July 1 2024 through December 31, 2024	**4417.0**
TOTAL RUNTIME From July 1 2024 through December 31, 2024 (HOURS):	**4388.4**
RUNTIME PERCENTAGE July 1 2024 through December 31, 2024 (HOURS) :	**99.4%**
SSM Counts :	**17**

*There were 721 hours in November 2024, due to Daylight Saving Time.

(a) **STANDARD OPERATING PROCEDURES**

Shutdown

Procedure No.	Procedure
1	Ensure that there are no unsafe conditions present, contact manager immediately
2	Initiate shutdown sequence below by one or more of the following (Note date and time in Section 1 of form above) Press Emergency Stop if necessary Close On/Off switch(es) or Push On/Off button(s) Close adjacent valves if necessary
3	Observe that system achieves normal shutdown ranges for levels, pressures, and temperatures (Note date and time in Section 2 of form above)

Startup

Procedure No.	Procedure
1	Ensure that there are no unsafe conditions present
2	Ensure that the system is ready to start by one of the following: Valves are in correct position Levels, pressures, and temperatures are within normal starting range Alarms are cleared Power is on and available to control panel and ready to energize equipment. Emergency stop is de-energized
3	Initiate start sequence (Note time and date in section 1 of form above)
4	Observe that system achieves normal startup ranges for levels, pressures, and temperatures (Note time and date in Section 2 of form above)

Malfunction

EQUIPMENT	PURPOSE	MALFUNCTION EVENT	COMMON CAUSES	PROCEDURE NO. -TYPICAL RESPONSE ACTIONS
LFG Collection and Control System				
Blower or Other Gas Mover Equipment	Applies vacuum to wellfield to extract LFG and transport to control device	Loss of LFG Flow/Blower Malfunction	-Flame arrestor fouling/deterioration -Automatic valve problems -Blower failure (e.g., belt, motor, impeller, coupling, seizing, etc.) -Loss of power -Extraction piping failure -Condensate knock-out problems -Extraction piping blockages	1. Repair breakages in extraction piping 2. Clean flame arrestor 3. Repair blockages in extraction piping 4. Verify automatic valve operation, compressed air/nitrogen supply 5. Notify power utility, if appropriate 6. Provide/utilize auxiliary power source, if necessary 7. Repair Settlement in Collection Piping 8. Repair Blower 9. Activate back-up blower, if available 10. Clean knock-up pot/demister 11. Drain knock-out pot
Extraction Wells and Collection Piping	Conduits for extractions and movement of LFG flow	Collection well and pipe failures	-Break/crack in header or lateral -Leaks at wellheads, valves, -Collection piping blockages -Problems due to settlement (e.g. pipe separation, deformation, development of low points)	12. Repair leaks or breaks in lines or wellheads 13. Follow procedures for loss of LFG flow/blower 14. Repair blockages in collection piping 15. Repair settlement in collection piping 16. Re-install, repair, or replace piping
Blower or Other Gas Mover Equipment And Control Device	Collection and control of LFG	Loss of electrical power	- Force majeure/Act of God (e.g., lightning, flood, earthquake, etc.) -Area-wide or local blackout or brown-out -Interruption in service (e.g. blown service fuse) -Electrical line failure -Breaker trip -Transformer failure -Motor starter failure/trip -Overdraw of power -Problems in electrical panel -Damage to electrical equipment from on-site operations	17. Check/reset breaker 18. Check/repair electrical panel components 19. Check/repair transformer 20. Check/repair motor starter 21. Check/repair electrical line 22. Test amperage to various equipment 23. Contact electricity supplier 24. Contact/contract electrician 25.Provide auxiliary power (if necessary)
LFG Control Device	Combusts LFG	Low temperature conditions at control device	-Problems with temperature - monitoring equipment -Problems/failure of - thermocouple and/or -Change of LFG flow -Change of LFG quality -Problems with air louvers -Problems with air/fuel controls -Change in atmospheric	26. Check/repair temperature monitoring equipment 27. Check/repair thermocouple and/or wiring 28. Follow procedures for loss of flow/blower malfunction 29. Check/adjust louvers 30. Check/adjust air/fuel controls
LFG Control Device	Combusts LFG	Loss of Flame	-Problems/failure of thermocouple -Loss/change of LFG flow -Loss/change of LFG quality -Problems with air/fuel controls -Problems/failure of flame sensor -Problems with temperature monitoring equipment	31. Check/repair temperature monitoring equipment 32. Check/repair thermocouple 33. Follow procedures for loss of flow/blower malfunction 34. Check/adjust air/fuel controls 35. Check/adjust/repair flame sensor 36. Check/adjust LFG collectors
Flow Monitoring/ Recording Device	Measures and records gas flow from collection system to control	Malfunctions of Flow Monitoring/Recording Device	-Problems with orifice plate, pitot tube, or other in-line flow measuring device -Problems with device controls and/or wiring -Problems with chart recorder	37. Check/adjust/repair flow measuring device and/or wiring 38. Check/repair chart recorder 39. Replace paper in chart recorder
Temperature Monitoring/	Monitors and records	Malfunctions of Temperature	-Problems with thermocouple	40. Check/adjust/repair thermocouple

EQUIPMENT	PURPOSE	MALFUNCTION EVENT	COMMON CAUSES	PROCEDURE NO. -TYPICAL RESPONSE ACTIONS
LFG Collection and Control System				
Recording Device	combustion temperature of enclosed combustion device	Monitoring/Recording Device	-Problems with device controls and/or wiring -Problems with chart recorder	41. Check/adjust/repair controller and/or wiring 42. Check/adjust/repair electrical panel components 43. Check/repair chart recorder 44. Replace paper in chart recorder
Control Device	Combusts LFG	Other Control Device Malfunctions	-Control device smoking (i.e. visible emissions) -Problems with flare insulation -Problems with pilot light system -Problems with air louvers -Problems with air/fuel controllers -Problems with thermocouple -Problems with burners -Problems with flame arrester -Alarmed malfunction conditions not covered above -Unalarmed conditions discovered during inspection not covered above	45. Site-specific diagnosis procedures 46. Site-specific responses actions based on diagnosis 47. Open manual louvers 48. Clean pitot orifice 49. Clean/drain flame arrestor 50. Refill propane supply 51. Check/repair pilot sparking system

(b) For each permit limit exceedance complete an "SSM Plan Departure Form". Notify BAAQMD verbally or by fax within 2 working days after commencing the actions that an event inconsistent with the SSM Plan and which resulted in an exceedance of an applicable emission permit has occured. Follow up in writing to the agency within 7 working days after the end of the event.

APPENDIX C

WELLFIELD SSM LOG

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: Rajan Phadnis/Tino Robles

Kirby Canyon Recycling & Disposal Facility, San Jose, CA
SSMP REPORT - From July 1 2024 through December 31, 2024

Identify Well & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Well ID Number:133 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	6/03/24 12:25	6/03/24 12:27	0.03	520.8	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	6/3/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:133 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	6/25/24 06:15	6/25/24 06:17	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	6/25/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:91 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/03/24 06:00	7/03/24 06:02	0.03	316.5	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/3/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:91 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/16/24 11:30	7/16/24 11:32	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/16/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:78 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/15/24 07:00	7/15/24 07:02	0.03	167.0	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/15/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:78 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/22/24 07:00	7/22/24 07:02	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/22/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:89 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/18/24 08:20	7/18/24 08:22	0.03	291.4	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/18/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:89 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/30/24 12:45	7/30/24 12:47	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/30/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:133 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/23/24 06:30	7/23/24 06:32	0.03	26.2	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/23/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:133 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	7/24/24 09:40	7/24/24 09:42	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/24/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:93 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/22/24 10:25	7/22/24 10:27	0.03	406.7	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/22/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:93 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	8/08/24 10:10	8/08/24 10:12	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	8/8/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:156 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	8/21/24 14:33	8/21/24 14:35	0.03	376.7	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	8/21/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:156 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	9/06/24 08:15	9/06/24 08:17	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	9/6/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:156 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	9/13/24 07:05	9/13/24 07:07	0.03	72.9	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	9/13/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:156 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	9/16/24 09:00	9/16/24 09:02	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	9/16/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:92 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	8/12/24 08:30	8/12/24 08:32	0.03	550.5	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	8/12/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:92 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	9/04/24 08:00	9/04/24 08:02	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	9/4/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: Rajan Phadnis/Tino Robles

Kirby Canyon Recycling & Disposal Facility, San Jose, CA

SSMP REPORT - From July 1 2024 through December 31, 2024

Identify Well & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Well ID Number:78 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/29/24 08:50	7/29/24 08:52	0.03	1,557.7	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/29/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:78 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	10/02/24 07:35	10/02/24 07:37	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	10/2/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:134 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	9/17/24 09:30	9/17/24 09:32	0.03	838.8	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	9/17/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:134 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	10/22/24 09:20	10/22/24 09:22	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	10/22/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:92 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	10/22/24 08:15	10/22/24 08:17	0.03	147.1	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	10/22/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:92 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	10/28/24 12:20	10/28/24 12:22	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	10/28/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:74 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	7/16/24 06:45	7/16/24 06:47	0.03	2,753.1	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	7/16/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:74 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	11/08/24 00:50	11/08/24 00:52	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	11/8/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:98 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	11/01/24 06:45	11/01/24 06:47	0.03	264.3	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	11/1/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:98 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	11/12/24 08:00	11/12/24 08:02	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	11/12/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:155 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	12/07/24 08:30	12/07/24 08:32	0.03	286.8	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/7/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:155 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	12/19/24 08:20	12/19/24 08:22	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/19/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:98 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	11/15/24 07:00	11/15/24 07:02	0.03	576.3	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	11/15/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:98 ☒ Startup Event ☐ Shutdown Event ☐ Malfunction Event	12/09/24 08:15	12/09/24 08:17	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/9/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:58 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	12/18/24 08:45	12/18/24 08:47	0.03	326.2	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/18/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:58 ☐ Startup Event ☐ Shutdown Event ☐ Malfunction Event	12/31/24 23:59	1/01/25 00:01	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/31/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:87 ☐ Startup Event ☒ Shutdown Event ☐ Malfunction Event	12/30/24 11:20	12/30/24 11:22	0.03	35.7	Well Located in Active Filling Area. Well Raised.	☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/30/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 3	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	
Well ID Number:87 ☐ Startup Event ☐ Shutdown Event ☐ Malfunction Event	12/31/24 23:59	1/01/25 00:01	0.03			☐ 113: Inspection and Maintenance ☒ 116: Well Raising ☐ 117: Gas Collection ☐ 118: Construction Activities	12/31/2024	☒ Manual (Go to Section 9) ☐ Automatic (Go to Section 11)	Procedure No. 1 to 4	☐ Yes (Go to Section 11) ☒ No (Stop)	☐ Yes (Go to Section 12) ☐ No (Stop)	

From July 1 2024 through December 31, 2024 SSM Counts : **17**

(a) **STANDARD OPERATING PROCEDURES**

Shutdown

Procedure No.	Procedure
1	Ensure that there are no unsafe conditions present, contact manager immediately
2	Initiate shutdown sequence below by one or more of the following (Note date and time in Section 1 of form above)
	Press Emergency Stop if necessary
	Close On/Off switch(es) or Push On/Off button(s)
	Close adjacent valves if necessary
3	Observe that system achieves normal shutdown ranges for levels, pressures, and temperatures (Note date and time in Section 2 of form above)

Startup

Procedure No.	Procedure
1	Ensure that there are no unsafe conditions present
2	Ensure that the system is ready to start by one of the following:
	Valves are in correct position
	Levels, pressures, and temperatures are within normal starting range
	Alarms are cleared
	Power is on and available to control panel and ready to energize equipment.
	Emergency stop is de-energized
3	Initiate start sequence (Note time and date in section 1 of form above)
4	Observe that system achieves normal startup ranges for levels, pressures, and temperatures (Note time and date in Section 2 of form above)

Malfunction

EQUIPMENT	PURPOSE	MALFUNCTION EVENT	COMMON CAUSES	PROCEDURE NO. -TYPICAL RESPONSE ACTIONS
LFG Collection and Control System				
Blower or Other Gas Mover Equipment	Applies vacuum to wellfield to extract LFG and transport to control device	Loss of LFG Flow/Blower Malfunction	-Flame arrestor fouling/deterioration -Automatic valve problems -Blower failure (e.g., belt, motor, impeller, coupling, seizing, etc.) -Loss of power -Extraction piping failure -Condensate knock-out problems -Extraction piping blockages	1. Repair breakages in extraction piping 2. Clean flame arrestor 3. Repair blockages in extraction piping 4. Verify automatic valve operation, compressed air/nitrogen supply 5. Notify power utility, if appropriate 6. Provide/utilize auxiliary power source, if necessary 7. Repair Settlement in Collection Piping 8. Repair Blower 9. Activate back-up blower, if available 10. Clean knock-up pot/demister 11. Drain knock-out pot
Extraction Wells and Collection Piping	Conduits for extractions and movement of LFG flow	Collection well and pipe failures	-Break/crack in header or lateral -Leaks at wellheads, valves, -Collection piping blockages -Problems due to settlement (e.g. pipe separation, deformation, development of low points)	12. Repair leaks or breaks in lines or wellheads 13. Follow procedures for loss of LFG flow/blower malfunction 14. Repair blockages in collection piping 15. Repair settlement in collection piping 16. Re-install, repair, or replace piping
Blower or Other Gas Mover Equipment And Control Device	Collection and control of LFG	Loss of electrical power	- Force majeure/Act of God (e.g., lightning, flood, earthquake, etc.) -Area-wide or local blackout or brown-out -Interruption in service (e.g. blown service fuse) -Electrical line failure -Breaker trip -Transformer failure -Motor starter failure/trip -Overdraw of power -Problems in electrical panel -Damage to electrical equipment from on-site operations	17. Check/reset breaker 18. Check/repair electrical panel components 19. Check/repair transformer 20. Check/repair motor starter 21. Check/repair electrical line 22. Test amperage to various equipment 23. Contact electricity supplier 24. Contact/contract electrician 25.Provide auxiliary power (if necessary)
LFG Control Device	Combusts LFG	Low temperature conditions at control device	-Problems with temperature -monitoring equipment -Problems/failure of -thermocouple and/or thermocouple wiring -Change of LFG flow -Change of LFG quality -Problems with air louvers -Problems with air/fuel controls -Change in atmospheric conditions	26. Check/repair temperature monitoring equipment 27. Check/repair thermocouple and/or wiring 28. Follow procedures for loss of flow/blower malfunction 29. Check/adjust louvers 30. Check/adjust air/fuel controls

EQUIPMENT	PURPOSE	MALFUNCTION EVENT	COMMON CAUSES	PROCEDURE NO. -TYPICAL RESPONSE ACTIONS
LFG Collection and Control System				
LFG Control Device	Combusts LFG	Loss of Flame	-Problems/failure of thermocouple -Loss/change of LFG flow -Loss/change of LFG quality -Problems with air/fuel controls -Problems/failure of flame sensor -Problems with temperature monitoring equipment	31. Check/repair temperature monitoring equipment 32. Check/repair thermocouple 33. Follow procedures for loss of flow/blower malfunction 34. Check/adjust air/fuel controls 35. Check/adjust/repair flame sensor 36. Check/adjust LFG collectors
Flow Monitoring/ Recording Device	Measures and records gas flow from collection system to control	Malfunctions of Flow Monitoring/Recording Device	-Problems with orifice plate, pitot tube, or other in-line flow measuring device -Problems with device controls and/or wiring -Problems with chart recorder	37. Check/adjust/repair flow measuring device and/or wiring 38. Check/repair chart recorder 39. Replace paper in chart recorder
Temperature Monitoring/ Recording Device	Monitors and records combustion temperature of enclosed combustion device	Malfunctions of Temperature Monitoring/Recording Device	-Problems with thermocouple -Problems with device controls and/or wiring -Problems with chart recorder	40. Check/adjust/repair thermocouple 41. Check/adjust/repair controller and/or wiring 42. Check/adjust/repair electrical panel components 43. Check/repair chart recorder 44. Replace paper in chart recorder
Control Device	Combusts LFG	Other Control Device Malfunctions	-Control device smoking (i.e. visible emissions) -Problems with flare insulation -Problems with pilot light system -Problems with air louvers -Problems with air/fuel controllers -Problems with thermocouple -Problems with burners -Problems with flame arrester -Alarmed malfunction conditions not covered above -Unalarmed conditions discovered during inspection not covered above	45. Site-specific diagnosis procedures 46. Site-specific responses actions based on diagnosis 47. Open manual louvers 48. Clean pitot orifice 49. Clean/drain flame arrestor 50. Refill propane supply 51. Check/repair pilot sparking system

(b) For each permit limit exceedance complete an "SSM Plan Departure Form". Notify BAAQMD verbally or by fax within 2 working days after commencing the actions that an event inconsistent with the SSM Plan and which resulted in an exceedance of an applicable emission permit has occured. Follow up in writing to the agency within 7 working days after the end of the event.

APPENDIX D

FLARE TEMPERATURE DEVIATION/ INOPERATIVE MONITOR REPORTS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA BAAQMD Rule 34, Section 501

TEMPERATURE DEVIATION/ INOPERATIVE MONITOR REPORT From July 1 2024 through December 31, 2024

AFFECTED EQUIPMENT: A-12 Flare

REPORT PREPARED BY: Rajan Phadnis **DATE:** January 1, 2025
TEMPERATURE SENSING DEVICE: Thermocouple **MODEL:** Thermo-Electric

START DATE & TIME	END DATE & TIME	DURATION (hours)	TEMP (°F) / FLOW (SCFM)	CAUSE	EXPLANATION	ACTION TAKEN
No deviations during July 2024						
No deviations during August 2024						
No deviations during September 2024						
No deviations during October 2024						
No deviations during November 2024						
12/10/24 2:52 PM	12/10/24 3:00 PM	0.13	Data gap	Data logger offline during installation of EDGE device	KCRDF upgrading system with EDGE device	Power was restored and data logger was recording normally.

Note: The A-12 Flare combustion zone three-hour average temperature did not drop below 1,412 limit established in the February 14, 2024, Annual Source tests, pursuant to Title V Permit A1812 Condition 1437 Part 9, during the reporting period while the flare was in operation.
°F= degrees Fahrenheit
scfm= standard cubic feet per minute

APPENDIX E

COVER INTEGRITY MONITORING REPORTS

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: July 25, 2024
REPORT DATE: July 25, 2024
TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking	X		Cell 6 slopes
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description **Note cell and near-by wells**	**Date of Repair**	**Description of Repair (add soil, water)**
Surface cracks on slopes at cell 6 (identified in May 2024)	In progress	Corrective action initiated during May 2024. Location was corrected during August 2024 upon completion of soil work.

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: 8/5/2024, 8/6/024, and 8/26/2024
REPORT DATE: August 26, 2024
TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap	X		Seeps near wells
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description **Note cell and near-by wells**	**Date of Repair**	**Description of Repair (add soil, water)**
Surface cracks on slopes at cell 6 (identified in May 2024)	8/5/24 and 8/6/24	Added soil to the affected areas
Seeps near well 110, 122,159 and 160	-	

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: September 26, 2024
REPORT DATE: September 26, 2024
TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap	X		Seeps near wells
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description **Note cell and near-by wells**	**Date of Repair**	**Description of Repair (add soil, water)**
Seeps near wells 110, 122, 159 and 160 (identified in August 2024	-	Affected locations were remediated in October 2024

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: 10/7/2024, 10/8/2024, and 10/28/2024
REPORT DATE: October 28, 2024
TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap	X		See below for corrective action
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description **Note cell and near-by wells**	**Date of Repair**	**Description of Repair (add soil, water)**
Seeps near wells 122, 159 and 160	10/07/24	Added soil
Seep near well 110	10/08/24	Added soil

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: November 26, 2024
REPORT DATE: November 26, 2024
TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description **Note cell and near-by wells**	**Date of Repair**	**Description of Repair (add soil, water)**

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: December 16, 2024
REPORT DATE: December 16, 2024
TECHNICIAN: Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

APPENDIX F

SURFACE EMISSIONS MONITORING REPORTS

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

December 31, 2024

Ms. Becky Azevedo
Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, CA 95037

Re: Fourth Quarter 2024 Surface Emissions and Component Leak Monitoring Report for the Kirby Canyon Recycling and Disposal Facility

Dear Ms. Azevedo:

This monitoring report for the "**Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill"** contains the results of the **Fourth Quarter 2024 Integrated and Instantaneous** Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by RES Environmental, Inc. (RES). Re-monitoring of surface emissions was conducted by KCRDF personnel.

APPLICABLE REQUIREMENTS

The monitoring discussed in this report was conducted in accordance with the following requirements:

Surface Emission Monitoring (SEM)

- New Source Performance Standard (NSPS), Title 40 of the Code of Federal Regulations (CFR) §60.755 (c) and (d), 40 CFR 60, Appendix A Method 21, promulgated by the United States Environmental Protection Agency (USEPA).

- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95460 to §95476, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).

- Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) and Section 607 (Landfill Surface Inspection procedures).

- United States Environmental Protection Agency's (USEPA) *Standards of Performance for Municipal Solid Waste Landfills*; 40 Code of Federal Regulations (CFR) Part 63, Subpart AAAA-National Emission Standards for Hazardous Air Pollutants (NESHAP).

Component Leak Monitoring

- Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 301 (Landfill Gas Collection and Emission Control System Requirements) and Section 602 (Collection and Control System Leak Inspection procedures).
- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95464, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).

KCRDF Plan and Alternative Compliance Measures

An Alternative Compliance Option (ACO) Request was submitted to the California Air Resources Board (CARB) on May 16, 2011. After receipt of comments, this ACO was amended, restated, and submitted to BAAQMD on July 1, 2016. SEM and Component Leak monitoring was conducted per the methods outlined in the July 1, 2016, ACO.

PROCEDURES

General

The surface of the KCRDF disposal area has been divided into one-hundred-and-fifty (150), approximately 50,000 square foot monitoring grids. The entire landfill surface is monitored with the exception of active portions of the Landfill, slope areas, and as requested in the approved ACO, areas containing only asbestos-containing waste, inert waste and/or non-decomposable waste which are excluded for safety as allowed by CCR Title 17 §95466.

Field personnel walked the surface of the landfill following the 25-foot interval walking pattern as depicted the 2011 KCRDF AB-32 SEM Plan, which traverses each monitoring grid. Additionally, in accordance with the provisions of 40 CFR 60.753(d) and 60.755(c)(1-3), the entire perimeter of the landfill surface was monitored. During the event, special attention was given to monitoring unusual cover conditions (stressed vegetation, cracks, seeps, etc.) and any areas with unusual odors.

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was calibrated to 500 parts per million by volume (ppm_v) methane, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a) and NSPS. The FID was calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The Instantaneous SEM procedures followed the requirements of 40 CFR 60.755 (c) and (d) and CCR Title 17 §95471(c)(2).

RES personnel walked the surface of the landfill on a grid-by-grid basis with the wand tip held at 2 inches from the landfill surface. While sampling the grid; the technicians also checked any surface impoundments (wells or otherwise) for leaks. Technicians also checked any surface cracks, seeps, or other areas that show evidence of surface emissions (odors or distressed vegetation). Active and sloped areas excluded for safety were documented on field data sheets and maps.

All instantaneous surface monitoring was performed in accordance with the applicable requirements referenced in this report. Any detections of methane above 200 ppm_v (areas of concern) or 500 ppm_v (exceedances) for instantaneous were recorded, flagged, and marked on an SEM Map, which, wherever required, is included in the Appendices of this report. Applicable corrective action and re-monitoring timelines are listed below:

- Corrective actions must be initiated within 5 days of the initial exceedance and re-monitoring shall be conducted within 10 days of the initial exceedance.
    - If the re-monitoring event shows the exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance.
    - If the 1-month re-monitoring event shows the location is still corrected, all re-monitoring requirements have been completed.
- If either the first 10-day or 1-month re-monitoring events show a second exceedance, additional corrective actions shall be completed, and a second re-monitoring event shall be conducted within 10 days of the second exceedance.
- If the second 10-day re-monitoring event shows the second exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance. If the 1-month re-monitoring event shows the area is still corrected, monitoring requirements have been completed.

If any location shows three exceedances, an additional well shall be installed within 120 days of the initial exceedance.

Integrated Surface Emissions Monitoring

The Integrated surface monitoring was conducted using a TVA 1000 calibrated to 25 ppm_v for the integrated monitoring, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The field technician traversed the grid walking path over a continuous 25-minute period using the TVA 1000 held within 3 inches above the landfill surface. The Integrated monitoring procedures followed the requirements of CCR Title 17 §95471(c)(3).

Grids with results greater than 25 ppm_v were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppm_v are subject to the following re-monitoring timeline:

- Re-monitoring shall be conducted within 10 days of the initial exceedance.
- If the 10-day re-monitoring event shows the exceedance is corrected, all re-monitoring requirements have been completed.
- If either the first 10-day re-monitoring event shows a second grid exceedance, additional corrective actions shall be completed, and a second re-monitoring event shall be conducted within 10 days of the second exceedance.

- If the second 10-day re-monitoring event shows the second exceedance is corrected, all re-monitoring requirements have been completed.

- The second 10-day re-monitoring event shows a third grid exceedance, an additional well shall be installed within 120 days of the third exceedance.

Component Leak Monitoring Procedures

RES personnel monitored the exposed LFG components under positive pressure (pipes, wellheads, valves, blowers, and other mechanical appurtenances) using a TVA 1000 calibrated to 500 ppm_v. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppm_v per requirements outlined in pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B) and 1,000 ppm_v per requirements outlined in BAAQMD 8-34-303 were recorded. Applicable corrective action and re-monitoring timelines are listed below:

- Leaks between 500 and 999 ppm_v must be corrected and re-monitored within 10 days of the initial exceedance.

- Leaks at or above 1000 ppm_v must be corrected and re-monitored within 7 days of the initial exceedance.

FOURTH QUARTER 2024 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the Fourth Quarter 2024.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on December 2, 2024, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

Initial Monitoring Event Exceedances of 500 ppm_v

There were 9 exceedances of 500 ppm_v as methane detected on December 2, 2024. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (on July 24, 2024).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on December 3, 2024. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on December 20, 2024. All locations were observed at less than 500 ppm_v.

Readings between 200 ppm$_v$ and 499 ppm$_v$ (Initial and Re-monitored)

There were no readings between 200 ppm$_v$ and 499 ppm$_v$ as methane detected during the initial monitoring event on December 2, 2024. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm$_v$ but below 500 ppm$_v$ are required to be recorded.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on December 3, 2024, in accordance with the ACO and requirements outlined in CCR Title 17 §95469.

Initial Monitoring Event Exceedances of 25 ppm$_v$

There were no grids with exceedances of 25 ppm$_v$ as methane detected during the initial monitoring event on December 3, 2024.

The average methane concentration of each grid was recorded during the monitoring event per applicable requirements. See Attachment B, Integrated SEM 25 ppm$_v$ Exceedances and Monitoring Log, and SEM Map included in Attachment B, for details.

Component Leak Monitoring Results

Component leak monitoring was conducted per the applicable requirements on December 2, 2024. No leaks greater than 500 ppm$_v$ were identified. Please see Attachment C, for details.

WEATHER CONDITIONS

Wind Speed Conductions during the Surface Emission Monitoring Events

Wind speeds during initial monitoring were monitored using a portable weather station. The station has a strip chart that records the wind speed and direction. After completion of monitoring, the strip chart is reviewed by RES office staff to determine the average and maximum wind speeds during the monitoring and the average wind direction during each grid and ensure that the wind speed requirements are met (no gusts greater than 20 mph, average wind speed cannot exceed 10 mph). These values are documented in the field data sheets. The chart data is scanned and included in Attachment D.

Precipitation Requirements

Per the KCRDF's ACO, the initial monitoring event was carefully scheduled so that it could be conducted in compliance with the precipitation requirements (no measurable precipitation within 24 hours). Re-monitoring events are required to adhere to strict timelines. Any conflicts with precipitation requirements are discussed in the results section of this document.

EQUIPMENT CALIBRATION

The portable analyzers were calibrated to meet the instrument specifications requirements of U.S. EPA Method 21. The calibration gas used was methane, diluted to a nominal concentration of 25

ppm_v in air for integrated sample analyses and 500 ppm_v in air for instantaneous monitoring to comply with the requirements.

All analyzers were calibrated prior to use with required response time and precision related instrument checks. Calibration records include the following: One time response time test record; One time response factor determination for methane; Calibration Precision test records (test to be performed every 3 months); and Daily Instrument Calibration and Background test records for each gas meter that was used during the quarterly monitoring event. The calibration log records are included in Attachment E.

All monitoring was completed in accordance with the applicable regulatory requirements or approved alternatives. If you have any questions regarding this report, please do not hesitate to contact me at rphadnis@wm.com.

Thank you,
Waste Management

Rajan Phadnis
Environmental Protection Specialist

Attachment A – Instantaneous Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- SEM Map

Attachment B – Integrated Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- SEM Map

Attachment C – Component Leak Monitoring Event Records

- Component Leak Exceedances and Monitoring Logs

Attachment D – Weather Station Data

- Strip Chart Data

Attachment E – Calibration Records

- Instrument and Gas Calibration Records

Attachment A

Instantaneous Surface Emission Monitoring Event Records

Table A.1
Instantaneous Landfill Surface Emissions Monitoring
Initial Monitoring Event Areas of Concern

2024 QUARTER: 4

PERFORMED BY: RES

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
O10	137	12/2/2024	6,000	Surface
O11	82	12/2/2024	642	57
O12	119	12/2/2024	13000	27
O13	137	12/2/2024	2549	97
O14	59	12/2/2024	2534	118
O6	120	12/2/2024	3000	LR04
O7	72	12/2/2024	1000	122
O8	66	12/2/2024	1000	Surface
O9	138	12/2/2024	1000	90

Table A.2
Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs (NSPS/BAAQMD 8-34)

2024 QUARTER: 4

INITIAL MONITORING PERFORMEI RES
FOLLOW-UP MONITORING PERFORMED BY: KCRDF-Tino Robles
LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments-Wells
Grid Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
137	12/2/2024	6,000	12/3/2024	Added soil	12/3/2024	201		12/20/2024	154		Surface
82	12/2/2024	642	12/3/2024	Added soil and tuned	12/3/2024	31		12/20/2024	22		57
119	12/2/2024	13,000	12/3/2024	Added soil and tuned	12/3/2024	94		12/20/2024	82		27
137	12/2/2024	2,549	12/3/2024	Added soil	12/3/2024	117		12/20/2024	76		97
59	12/2/2024	2,534	12/3/2024	Added soil and tuned	12/3/2024	106		12/20/2024	66		118
120	12/2/2024	3,000	12/3/2024	Added soil and tuned	12/3/2024	86		12/20/2024	25		LR04
72	12/2/2024	1,000	12/3/2024	Added soil and tuned	12/3/2024	77		12/20/2024	67		122
66	12/2/2024	1,000	12/3/2024	Added soil	12/3/2024	45		12/20/2024	71		Surface
138	12/2/2024	1,000	12/3/2024	Added soil	12/3/2024	102		12/20/2024	48		90

Table A.3
Instantaneous Landfill Surface Emissions Monitoring Exceedance and Monitoring Logs (AB-32)

2024 QUARTER: 4

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: KCRDF-Tino Robles

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			Comments-Well locations
Exceedance Grid ID No.	Monitoring Date	Field Reading	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
137	12/2/2024	6,000	12/3/2024	201					
82	12/2/2024	642	12/3/2024	31					
119	12/2/2024	13,000	12/3/2024	94					
137	12/2/2024	2,549	12/3/2024	117					
59	12/2/2024	2,534	12/3/2024	106					
120	12/2/2024	3,000	12/3/2024	86					
72	12/2/2024	1,000	12/3/2024	77					
66	12/2/2024	1,000	12/3/2024	45					
138	12/2/2024	1,000	12/3/2024	102					

Table A.4
Instantaneous Landfill Surface Emissions Monitoring
Areas of Concern Greater than 200 ppmv

2024 QUARTER: 4
INITIAL MONITORING PERFORMED BY RES
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			**Re-mon Event**		**Comments**
Exceedance Grid ID No.	Monitoring Date	Field Reading	Monitoring Date	Reading ppm	
None					

Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs (NSPS/BAAQMD 8-34)

2024 QUARTER: Q4
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: Tino Robles
LANDFILL NAME: Kirby Canyon

Wind Direction: NW
Wind Speed: 9

Wind Direction: N
Wind Speed: 4

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	WELL
O10	12/2/2024	6,000	12/3/2024	Added dirt	12/3/2024	201		12/20/2024	154		Surface
O11	12/2/2024	642	12/3/2024	Tune well, Becs increase, added dirt	12/3/2024	31		12/20/2024	22		57
O12	12/2/2024	13,000	12/3/2024	Tune well, Becs increase, added dirt	12/3/2024	94		12/20/2024	82		27
O13	12/2/2024	2,549	12/3/2024	Added dirt	12/3/2024	117		12/20/2024	76		97
O14	12/2/2024	2,534	12/3/2024	Becs increase, added dirt	12/3/2024	106		12/20/2024	66		118
O6	12/2/2024	3,000	12/3/2024	Tune well, Becs increase, added dirt	12/3/2024	86		12/20/2024	25		LR04
O7	12/2/2024	1,000	12/3/2024	Becs increase, added dirt	12/3/2024	77		12/20/2024	67		122
O8	12/2/2024	1,000	12/3/2024	Added dirt	12/3/2024	45		12/20/2024	71		Surface
O9	12/2/2024	1,000	12/3/2024	Added dirt	12/3/2024	102		12/20/2024	48		90

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leigh Wade, Jerry Munoz, Anthony Canelos, Luis Gruvalo, Dan Long

Cal. Gas Exp. Date: 11-10-25

Date: 12-2-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 62 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	1130	1145	112	3	4	6	
37	JM	1130	1145	89	3	4	6	
38	AC	1130	1145	115	3	4	6	
41	LA	1130	1145	71	3	4	6	
42	DL	1130	1145	98	3	4	6	
43	LW	1145	1200	110	3	5	6	
44	JM	1145	1200	42	3	5	6	
47	AC	1145	1200	69	3	5	6	
48	LA	1145	1200	82	3	5	6	
49	DL	1145	1200	148	3	5	6	
52	LW	1200	1215	66	3	5	6	
53	JM	1200	1215	95	3	5	6	
54	AC	1200	1215	70	3	5	6	
55	LA	1200	1215	32	3	5	6	
57	DL	1200	1215	18	3	5	6	
58	LW	1215	1230	52	3	4	6	
59	JM	1215	1230	2534	3	4	6	Well 118
60	AC	1215	1230	34	3	4	6	
61	LA	1215	1230	27	3	4	6	
64	DL	1215	1230	12	3	4	6	
65	LW	1230	1245	81	3	5	6	
66	JM	1230	1245	1,000	3	5	6	Surface
67	AC	1230	1245	128	3	5	6	
68	LA	1230	1245	59	3	5	6	
70	DL	1230	1245	18	3	5	6	
71	LW	1245	1300	78	3	4	6	
72	JM	1245	1300	1,000	3	4	6	Well 122
73	AC	1245	1300	62	3	4	6	
74	LA	1245	1300	48	3	4	6	
75	DL	1245	1300	25	3	4	6	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leigh Wane, Luis Arevalo
Jerry Munoz, Don Lens
Anthony Canales

Cal. Gas Exp. Date: 11-10-25

Date: 12-2-24 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 65 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
79	LW	1300	1315	18	4	5	6	
80	JM	1300	1315	34	4	5	6	
81	AC	1300	1315	96	4	5	6	
82	LA	1300	1315	642	4	5	6	Well 57
83	DC	1300	1315	52	4	5	6	
85	LW	1315	1330	27	3	5	6	
86	JM	1315	1330	75	3	5	6	
87	AC	1315	1330	98	3	5	6	
89	LA	1315	1330	41	3	5	6	
90	DC	1315	1330	36	3	5	6	
94	LW	1330	1345	118	3	4	6	
97	JM	1330	1345	52	3	4	6	
101	AC	1330	1345	65	3	4	6	
104	LA	1330	1345	32	3	4	6	
105	DC	1330	1345	26	3	4	6	
109	LW	1345	1400	54	3	5	6	
112	JM	1345	1400	46	3	5	6	
116	AC	1345	1400	54	3	5	6	
119	LA	1345	1400	13,000	3	5	6	Well 27
120	DC	1345	1400	3,000	3	5	6	Well Lroy
124	LW	1400	1415	41	3	4	6	
125	JM	1400	1415	75	3	4	6	
126	AC	1400	1415	82	3	4	6	
127	LA	1400	1415	41	3	4	6	
128	DC	1400	1415	56	3	4	6	
132	LW	1415	1430	44	3	4	6	
133	JM	1415	1430	30	3	4	6	
134	AC	1415	1430	29	3	4	6	
135	LA	1415	1430	37	3	4	6	
136	DC	1415	1430	48	3	4	6	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leis Lwadt; Luis Arevalo
Jerry Munoz; Den Lang
Anthony Canales

Cal. Gas Exp. Date: 11-10-25

Date: 12-2-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 65 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
137	LW	1430	1445	6,000	3	4	6	SURFACE
138	JM	1430	1445	1,000	3	4	6	WELL 90
139	AC	1430	1445	35	3	4	6	
140	LA	1430	1445	47	3	4	6	
141	DC	1430	1445	32	3	4	6	
142	LW	1445	1500	51	2	3	6	
143	JM	1445	1500	40	2	3	6	
144	AC	1445	1500	26	2	3	6	
145	LA	1445	1500	32	2	3	6	
146	DC	1445	1500	51	2	3	6	
147	LW	1500	1515	32	2	3	7	
148	JM	1500	1515	44	2	3	7	
149	AC	1500	1515	60	2	3	7	
150	LA	1500	1515	45	2	3	7	
76	DC	1500	1515	98	2	3	7	
77	LW	1515	1530	106	3	4	8	
84	JM	1515	1530	85	3	4	8	
91	AC	1515	1530	115	3	4	8	
92	LA	1515	1530	88	3	4	8	
93	DC	1515	1530	28	3	4	8	
98	LW	1530	1545	71	2	3	8	
99	JM	1530	1545	145	2	3	8	
100	AC	1530	1545	61	2	3	8	
106	LA	1530	1545	71	2	3	8	
107	DC	1530	1545	116	2	3	8	
113	LW	1545	1600	54	2	2	8	
121	JM	1545	1600	71	2	2	8	
129	AC	1545	1600	48	2	2	8	

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leigh Wade

Cal. Gas Exp. Date:

Date: 12-2-24 Instrument Used: Grid Spacing:

Temperature: Precip: Upwind BG: Downwind BG:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
88								
95								Active-fresh
96								
102								
103								
110								
111								
117								
118								
1								
2								no waste in place
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
15								
20								
21								

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHNAOR

Cal. Gas Exp. Date:

Date: 12-2-24 Instrument Used: Grid Spacing:

Temperature: Precip: Upwind BG: Downwind BG:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								
108								
114								
115								
122								
123								

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Cashuaor

Cal. Gas Exp. Date:

Date: 12-2-24 Instrument Used: Grid Spacing:

Temperature: Precip: Upwind BG: Downwind BG:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
130								↓
131								

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

Orange Flag Landfill Surface Emissions Monitoring
Exceedances and Monitoring Log

Site: KIRBY

Quarter / Year: 4th 2024
Technician: LEISHWADE
Instrument: TVA1000
Calibration Standard: 500ppm

Page of Pages

Initial Monitoring Event				First Re-Monitoring Event - 10 Days			Second Re-Monitoring Event - 10 Days			30-Day Follow-up Monitoring			Comments
Flag Number	Grid Number	Field Reading (ppm)	Date Monitored	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	
~~0~~-11	82	642	12-2-24										
~~0~~-12	119	13,000											WELL 57
~~0~~-13	137	2,545											WELL 27
~~0~~-14	59	2534											WELL 97
~~0~~-10	137	6000											WELL 118
~~0~~-6	120	3,000											SURFACE
~~0~~-7	72	1,000											WELL LR04
0-8	66	1,000											WELL 122
~~0~~-9	138	1,000											SURFACE
0-													WELL 90
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2024
Quarter: 4th

IME Date	Time	IME Location ID	IME Concentration (ppm)
12-2-24	1117	KCLC0108	27
	1005	KCLC0109	14
	1115	KCLC0110	39
	1052	KCLC0111	22
	1015	KCLC0112	36
	1025	KCLC0139	51
	1113	KCLC0140	45
	1031	KCLC0141	61
	1014	KCLC0142	120
	1007	KCLC0143	20
	1037	KCLC0145	34
	1107	KCLC0147	19
	1120	KCLC0149	34
	1113	KCLC0151	47
	1035	KCLC0152	22
	1010	KCLC0153	64
	1121	KCLC0154	17
	1028	KCLC0155	35
	1017	KCLC0156	22
	1100	KCLC0157	59
	1005	KCLC0158	32
	1118	KCLC0159	22
	1111	KCLC0160	46
	1045	KCLC0161	19
	1040	KCYN0014	27
	1036	KCYN0027	13,000
	1030	KCYN0048	44
	1008	KCYN0051	28
	1030	KCYN0054	61
	1115	KCYN0056	45
	1022	KCYN0057	642
	1003	KCYN0058	38
	1053	KCYN0062	60
	1107	KCYN0063	45
	1015	KCYN0065	24
	1029	KCYN0066	31
	1110	KCYN0070	27
	1027	KCYN0071	18
	1055	KCYN0072	38
	1104	KCYN0074	34
	1020	KCYN0075	26
	1117	KCYN0076	18
	1110	KCYN0078	35
	1100	KCYN0082	77

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: ____________________

Quarter: ____________________

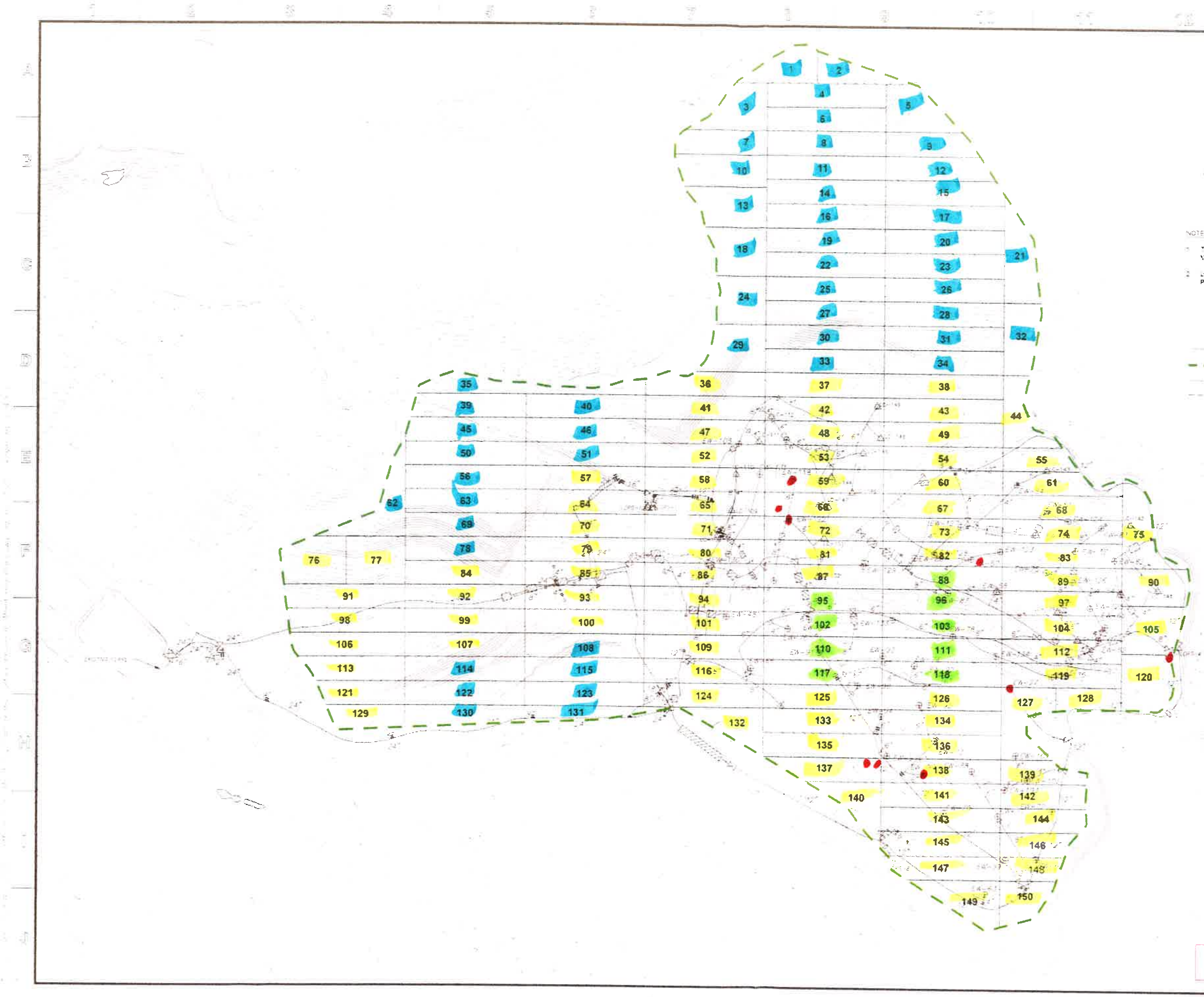
IME Date	Time	IME Location ID	IME Concentration (ppm)
12-2-24	1027	KCYN0084	31
	1005	KCYN0086	20
	1031	KCYN0087	54
	1106	KCYN0088	36
	1025	KCYN0089	21
	1102	KCYN0090	1,000
	1040	KCYN0091	40
	1035	KCYN0092	31
	1007	KCYN0093	40
	1017	KCYN0094	26
	1030	KCYN0095	51
	1040	KCYN0097	2549
	1100	KCYN0098	30
	1036	KCYN0099	61
	1114	KCYN0101	48
	1100	KCYN0102	27
	1008	KCYN0103	32
	1020	KCYN0105	39
	1014	KCYN0118	2534
	1010	KCYN0119	42
	1107	KCYN0121	46
	1103	KCYN0122	1,000
	1102	KCYN0123	38
	1031	KCYN0124	21
	1107	KCYN0125	18
	1012	KCYN0126	35
	1051	KCYN0127	42
	1115	KCYN0128	27
	1105	KCYN0129	14
	1020	KCYN0130	81
	1112	KCYN0131	47
	1040	KCYN0133	30
	1100	KCYN0134	51
	1035	KCYN0135	28
	1049	KCYN0162	36
	1057	KCYN0163	51
	1011	KCYN0164	46

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: ____________________

Quarter: ____________________

IME Date	Time	IME Location ID	IME Concentration (ppm)
12-2-24	1052	KCYN0165	43
	1022	KCYN0166	31
	1101	KCYN0167	52
	1018	KCYN0168	28
	1058	KCYN0169	75
	1106	KCYN0170	62
	1118	KCYN0171	114
	1121	KCYN0172	89
	1123	KCYNLR04	3,000
	1120	KCYNLR08	31
	1125	KCYNLR11	18
	1126	KCYNLR12	26



N

NOTES

1. TOPOGRAPHIC DATA BASED ON AERIAL MAPPING PREPARED BY MILLER CREEK ASSOCIATES DATED MARCH 26, 2021
2. LOCATIONS DEPICTED FOR THE EXISTING GCCS COMPONENTS PROVIDED TO SCS BY WASTE MANAGEMENT, VARIOUS DATES

LEGEND

— — —	LIMIT WASTE BOUNDARY
	ABOVE GRADE HDPE SDR 17 LFG HEADER LATERAL
	BELOW GRADE HDPE SDR 17 LFG HEADER LATERAL
	LFG EXTRACTION WELL
	LFG VALVE
	LFG REDUCER
	ROAD BENCH CROSSING
52	SEM GRID BLOCK

Instantaneous
12-2-24

🟨	Grids monitored
🟩	Active Area?
🟦	No waste in place
🔴	500+ ppm

PRELIMINARY PLAN
FOR REVIEW AND PLANNING PURPOSES ONLY

SHEET TITLE
SLM GRID AND PENETRATION MAP

PROJECT TITLE
SURFACE EMISSIONS
MONITORING PLANS
KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
MORGAN HILL, CALIFORNIA

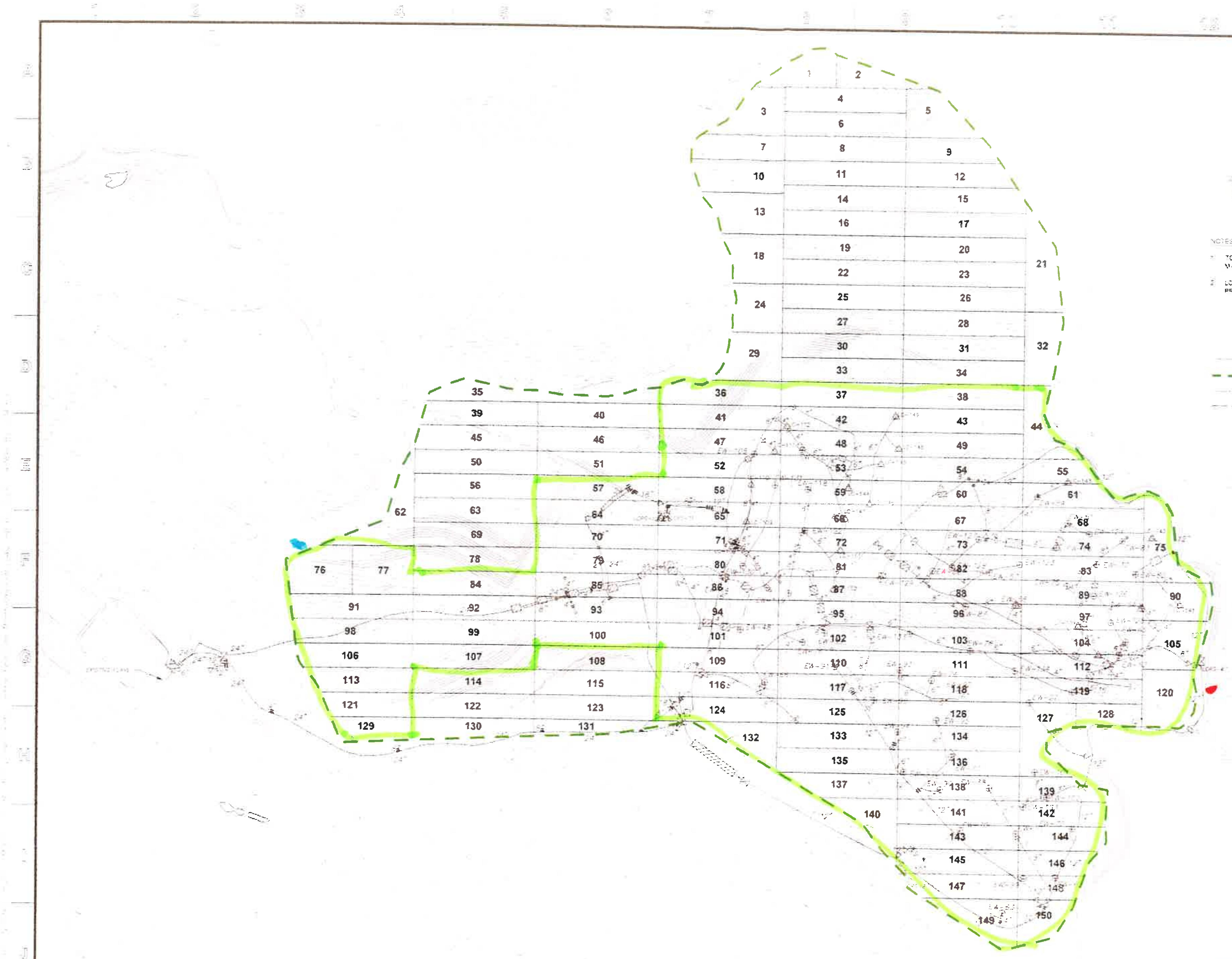
WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS

09-02-2021

AS SHOWN

3



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NOTES

1. TOPOGRAPHIC DATA BASED ON AERIAL MAPPING PREPARED BY MILLER CREEK ASSOCIATES DATED MARCH 26, 2021

2. LOCATIONS DEPICTED FOR THE EXISTING GCCS COMPONENTS PROVIDED TO SCS BY WASTE MANAGEMENT, VARIOUS DATES

LEGEND

LIMIT WASTE BOUNDARY
ABOVE GRADE HDPE SDR 17 LFG HEADER/LATERAL
BELOW GRADE HDPE SDR 17 LFG HEADER/LATERAL
LFG EXTRACTION WELL
LFG VALVE
LFG REDUCER
ROAD BENCH CROSSING
52 SEM GRID BLOCK

4th quarter
NSPS

🟩 perimeter survey
● upwind
● downwind

PRELIMINARY PLAN
FOR REVIEW AND PLANNING PURPOSES ONLY

SHEET TITLE
SEM GRID AND PENETRATION MAP

PROJECT TITLE
SURFACE EMISSIONS
MONITORING PLANS
KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
MORGAN HILL, CALIFORNIA

CLIENT
WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS

DATE
09-02-2021

SCALE
AS SHOWN

3

Attachment B

Integrated Surface Emission Monitoring Event Records

Table B.1
Integrated Landfill Surface Monitoring
Exceedances and Monitoring Log

2024 QUARTER: 4

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: N/A

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			1st Re-mon Event - 10 Days			Comments
Exceedance Grid ID No.	Monitoring Date	Field Reading	Monitoring Date	No Exced. <25 ppm	No Exced. >25 ppm	
None						

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Lois Lunar; Lisa Arnold; Johnny Reno; Dan Lane; Anthony Lancelot

Cal. Gas Exp. Date: 11-10-25

Date: 12-3-24 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 48 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	0600	0625	16.31	1	2	9	
37	JM	0600	0625	18.55	1	2	9	
38	AC	0600	0625	14.21	1	2	9	
41	LA	0600	0625	11.77	1	2	9	
42	DL	0600	0625	20.81	1	2	9	
43	LW	0625	0650	16.45	3	4	6	
44	JM	0625	0650	9.75	3	4	6	
47	AC	0625	0650	11.61	3	4	6	
48	LA	0625	0650	20.31	3	4	8	
49	DL	0625	0650	18.65	3	4	6	
52	LW	0650	0715	16.27	2	2	9	
53	JM	0650	0715	17.80	2	2	9	
54	AC	0650	0715	16.57	2	2	9	
55	LA	0650	0715	18.40	2	2	9	
57	DL	0650	0715	6.13	2	2	9	
58	LW	0715	0740	9.31	1	2	10	
59	JM	0715	0740	13.85	1	2	10	
60	AC	0715	0740	21.46	1	2	10	
61	LA	0715	0740	8.65	1	2	10	
64	DL	0715	0740	5.47	1	2	10	
65	LW	0740	0805	13.58	2	2	9	
66	JM	0740	0805	18.77	2	2	9	
67	AC	0740	0805	22.45	2	2	9	
68	LA	0740	0805	9.70	2	2	9	
70	DL	0740	0805	6.40	2	2	9	
71	LW	0805	0830	9.81	1	2	12	
72	JM	0805	0830	11.56	1	2	12	
73	AC	0805	0830	16.21	1	2	12	
74	LA	0805	0830	7.50	1	2	12	
75	DL	0805	0830	6.81	1	2	12	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Lesh Walker, Luis Arevalo, Jimmy Murer, Des lans, Anthony Chavelos

Cal. Gas Exp. Date: 11-10-25

Date: 12-3-24 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 57 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
79	LW	0830	0855	6.54	1	2	13	
80	JM	0830	0855	8.13	1	2	13	
81	AC	0830	0855	11.55	1	2	13	
82	LA	0830	0855	16.22	1	2	13	
83	DC	0830	0855	9.71	1	2	13	
86	LW	0855	0920	8.40	1	2	12	
87	JM	0855	0920	11.77	1	2	12	
89	AC	0855	0920	9.54	1	2	12	
90	LA	0855	0920	7.13	1	2	12	
94	DC	0855	0920	13.81	1	2	12	
97	LW	0920	0945	8.04	2	3	13	
101	JM	0920	0945	9.60	2	3	13	
104	AC	0920	0945	8.52	2	3	13	
105	LA	0920	0945	7.03	2	3	13	
109	DC	0920	0945	9.24	2	3	13	
112	LW	0945	1010	6.67	2	3	12	
116	JM	0945	1010	7.15	2	3	12	
119	AC	0945	1010	8.07	2	3	12	
120	LA	0945	1010	6.31	2	3	12	
124	DC	0945	1010	7.91	2	3	12	
125	LW	1010	1035	9.51	2	3	12	
126	JM	1010	1035	10.47	2	3	12	
127	AC	1010	1035	7.60	2	3	12	
128	LA	1010	1035	6.13	2	3	12	
132	DC	1010	1035	7.08	2	3	12	
133	LW	1035	1100	8.13	2	3	12	
134	JM	1035	1100	7.60	2	3	12	
135	AC	1035	1100	8.14	2	3	12	
136	LA	1035	1100	7.94	2	3	12	
137	DC	1035	1100	9.77	2	3	12	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leighwant / Luis Arevalo
Jerry Manor / Dsr Ierk
Anthony Clendles

Cal. Gas Exp. Date: 11-10-25

Date: 12-3-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 60 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
138	LW	1100	1125	7.54	3	3	12	
139	JM	1100	1125	8.96	3	3	12	
140	AC	1100	1125	7.13	3	3	12	
141	LA	1100	1125	6.82	3	3	12	
142	DC	1100	1125	7.85	3	3	12	
143	LW	1125	1150	7.99	2	2	12	
144	JM	1125	1150	8.13	2	2	12	
145	AC	1125	1150	6.50	2	2	12	
146	LA	1125	1150	7.08	2	2	12	
147	DC	1125	1150	6.34	2	2	12	
148	LW	1150	1215	8.15	2	4	12	
149	JM	1150	1215	7.98	2	4	12	
150	AC	1150	1215	6.53	2	4	12	
76	LA	1150	1215	11.54	2	4	12	
77	DC	1150	1215	13.68	2		12	
84	LW	1215	1240	17.50	3	5	12	
85	JM	1215	1240	21.32	3	5	12	
91	AC	1215	1240	18.07	3	5	12	
92	LA	1215	1240	20.50	3	5	12	
93	DC	1215	1240	19.75	3	5	12	
98	LW	1240	1305	16.11	1	2	12	
99	JM	1240	1305	19.84	1	2	12	
100	AC	1240	1305	11.77	1	2	12	
106	LA	1240	1305	13.58	1	2	12	
107	DC	1240	1305	11.60	1	2	12	
113	LW	1305	1330	12.54	2	3	14	
121	JM	1305	1330	9.81	2	3	14	
129	AC	1305	1330	12.47	2	3	14	

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Longhurst

Cal. Gas Exp. Date: ______

Date: 12-3-24 Instrument Used: ______ Grid Spacing: ______

Temperature: ______ Precip: ______ Upwind BG: ______ Downwind BG: ______

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
88								Active Area 3
95								
96								
102								
103								
110								
111								
117								
118								
1								No waste in place
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leishwnor

Cal. Gas Exp. Date:

Date: 12-7-24 Instrument Used: Grid Spacing:

Temperature: Precip: Upwind BG: Downwind BG:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								
108								
114								
115								
122								
123								

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIS / NADK ____________ ____________
____________ ____________ ____________
____________ ____________ Cal. Gas Exp. Date: ______

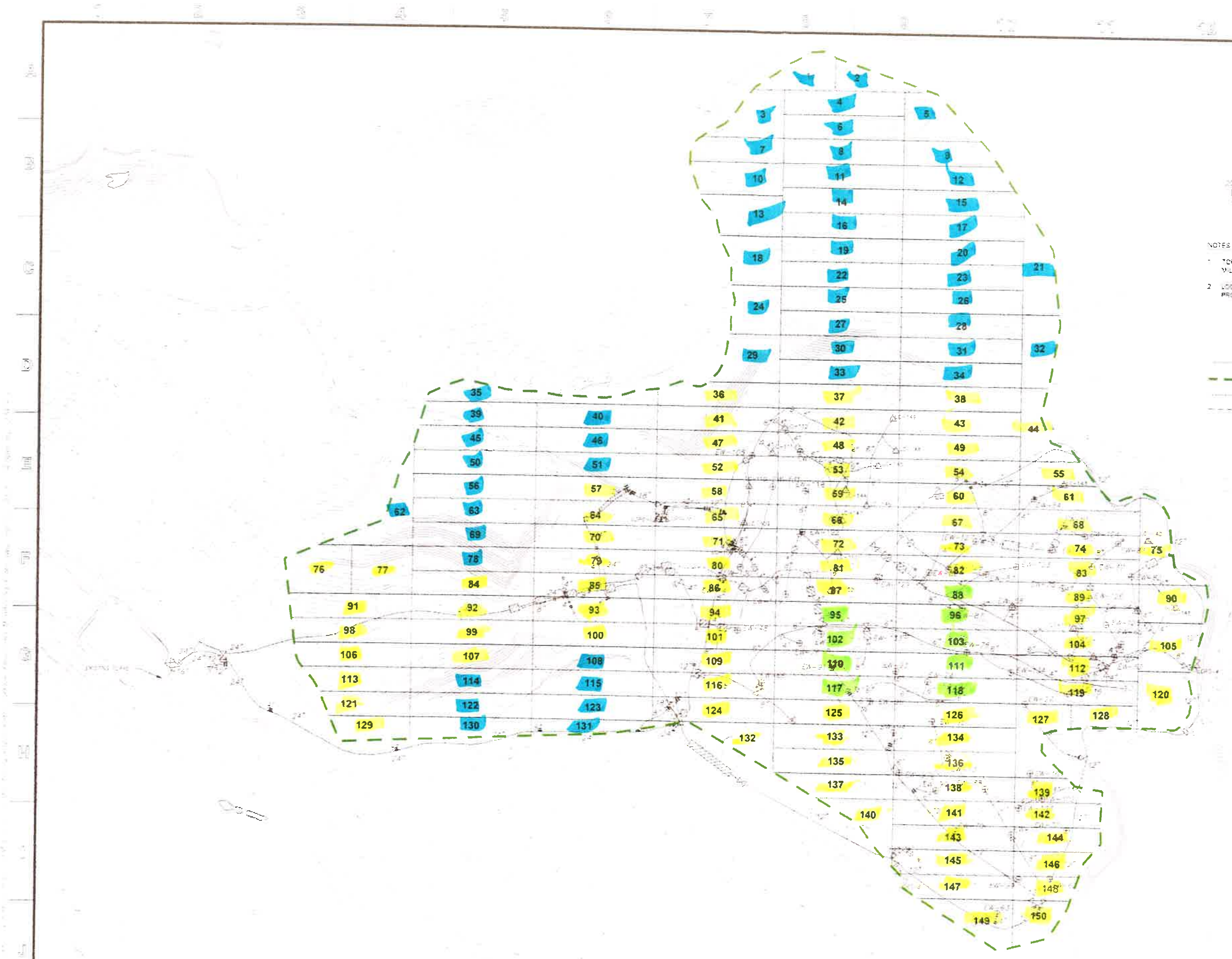
Date: 12-3-24 Instrument Used: ____________ Grid Spacing: ____________

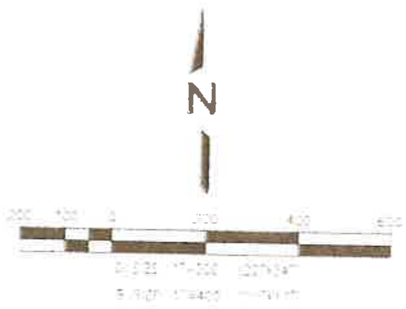
Temperature: ________ Precip: ________ Upwind BG: ________ Downwind BG: ________

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
130								↓
131								

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3





NOTES

1. TOPOGRAPHIC DATA BASED ON AERIAL MAPPING PREPARED BY MILLER CREEK ASSOCIATES DATED MARCH 26, 2021.
2. LOCATIONS DEPICTED FOR THE EXISTING GCCS COMPONENTS PROVIDED TO SCS BY WASTE MANAGEMENT, VARIOUS DATES.

LEGEND

— — —	LIMIT WASTE BOUNDARY
	ABOVE GRADE HDPE SDR 17 LFG HEADER/LATERAL
	BELOW GRADE HDPE SDR 17 LFG HEADER/LATERAL
	LFG EXTRACTION WELL
	LFG VALVE
	LFG REDUCER
	ROAD BENCH CROSSING
52	SEM GRID BLOCK

Integrators
12-3-24

🟨 Grids monitored
🟩 Active-face
🟦 No waste in place

PRELIMINARY PLAN
FOR REVIEW AND PLANNING PURPOSES ONLY

SHEET TITLE
SEM GRID AND PENETRATION MAP

PROJECT TITLE
SURFACE EMISSIONS
MONITORING PLANS
KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
MORGAN HILL, CALIFORNIA

CLIENT
WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS

DATE
09-03-2021

SCALE
AS SHOWN

3

Attachment C

Component Leak Monitoring Event Records

Table C.1

AB-32 Component Leak Monitoring

Summary of Component Leaks Greater than 500 ppmv

2024 QUARTER: 4

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Location	Initial Monitoring			Corrective Action		10-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	12/02/24	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

Table C.2
BAAQMD Component Leak Monitoring
Summary of Component Leaks Greater than 1,000 ppmv

2024 QUARTER: 4
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		7-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	12/02/24	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

LANDFILL NAME: Kirby

QUARTERLY LFG COMPONENT LEAK MONITORING

INSTRUMENT FID
MAKE: Thermo Environr
MODEL: TVA 1000
S/N: 1036346773

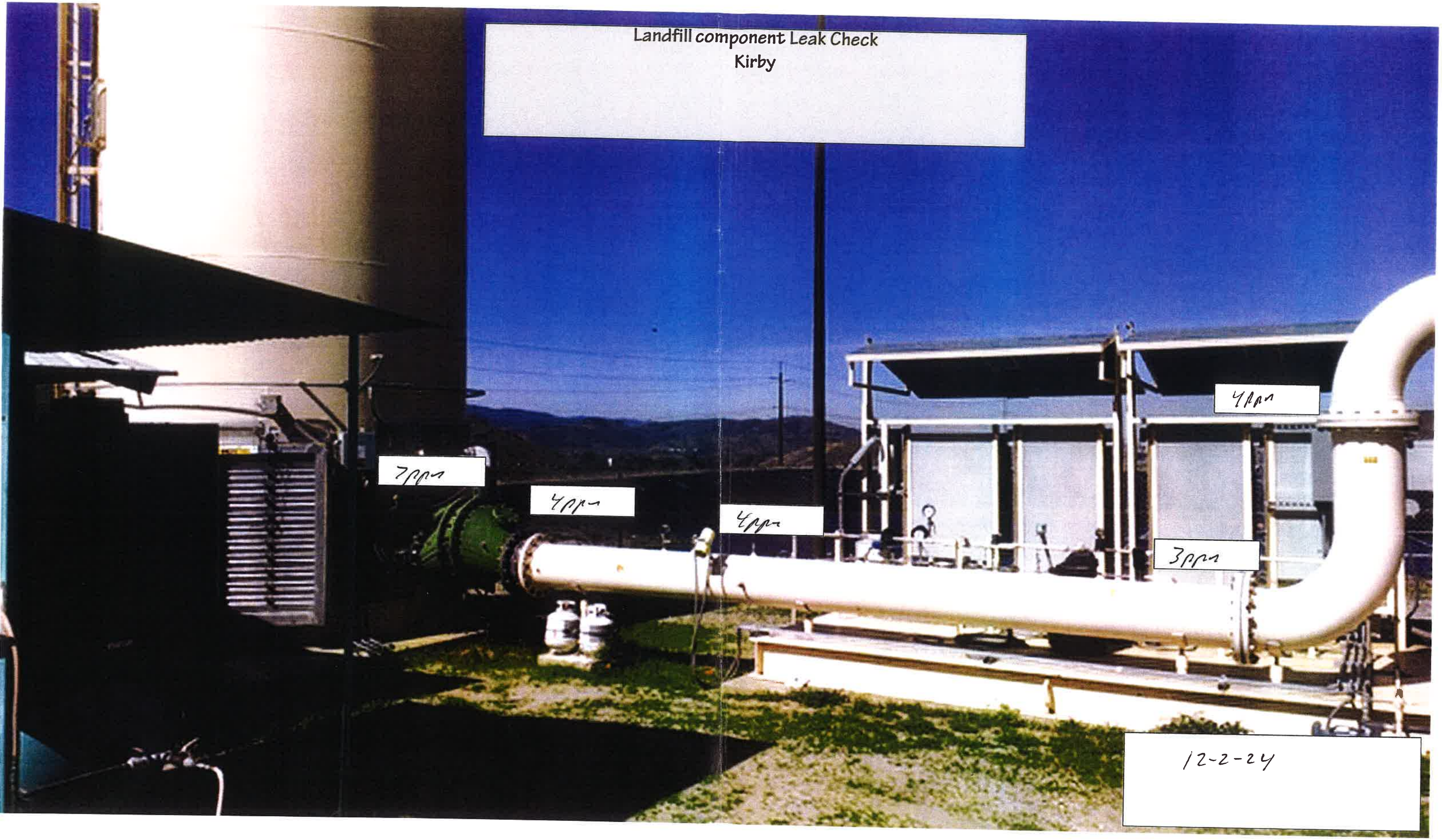
DATE OF SAMPLING: 12-2-24
TECHNICIAN: [illegible]

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)

In the event that an exceedance is detected, please intiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.

NOTE: Leaks over 500 ppmv methane are exceedances at any component containing landfill gas, pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B).

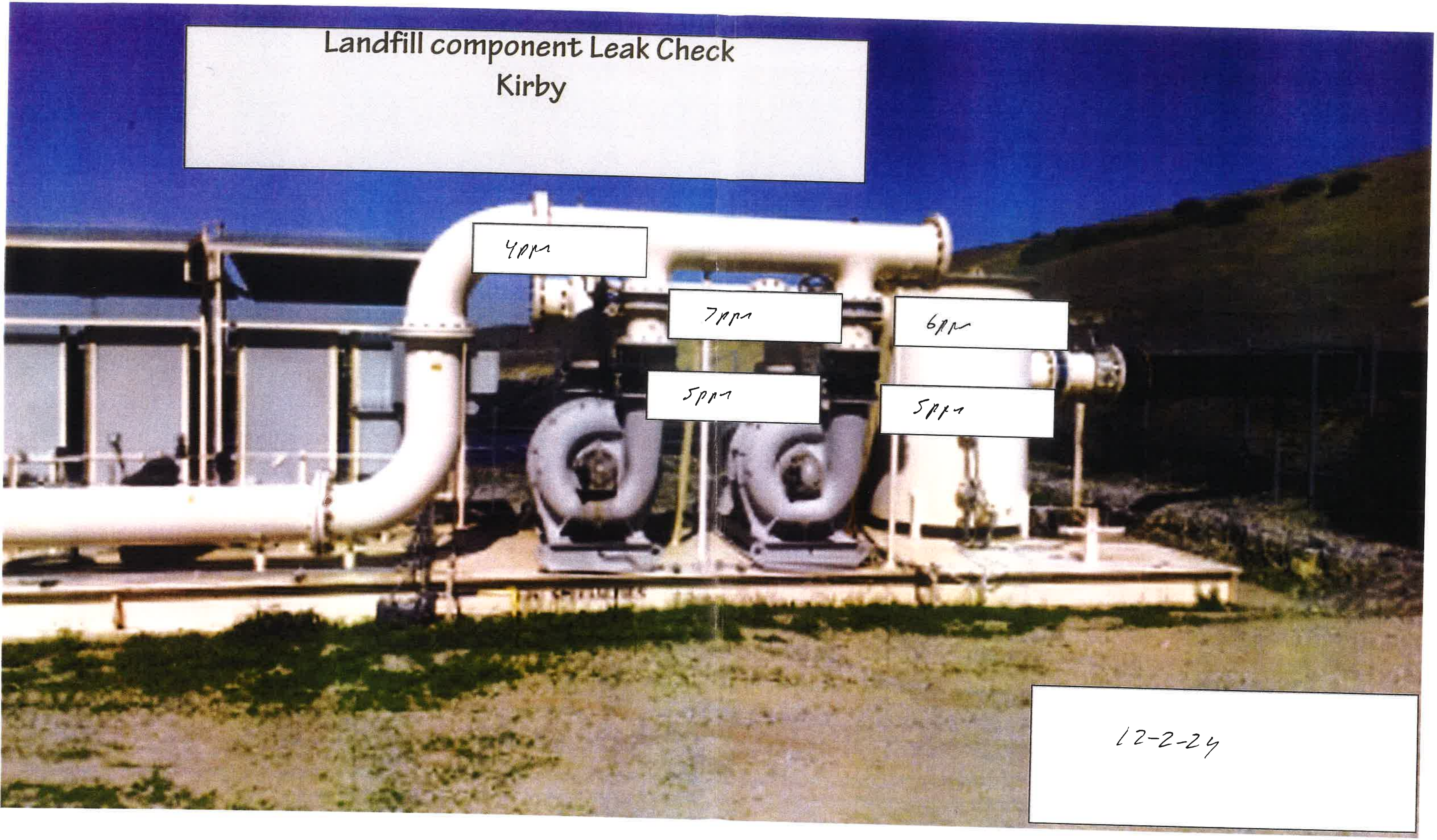
NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.



Landfill component Leak Check
Kirby

12-2-24

Landfill component Leak Check
Kirby

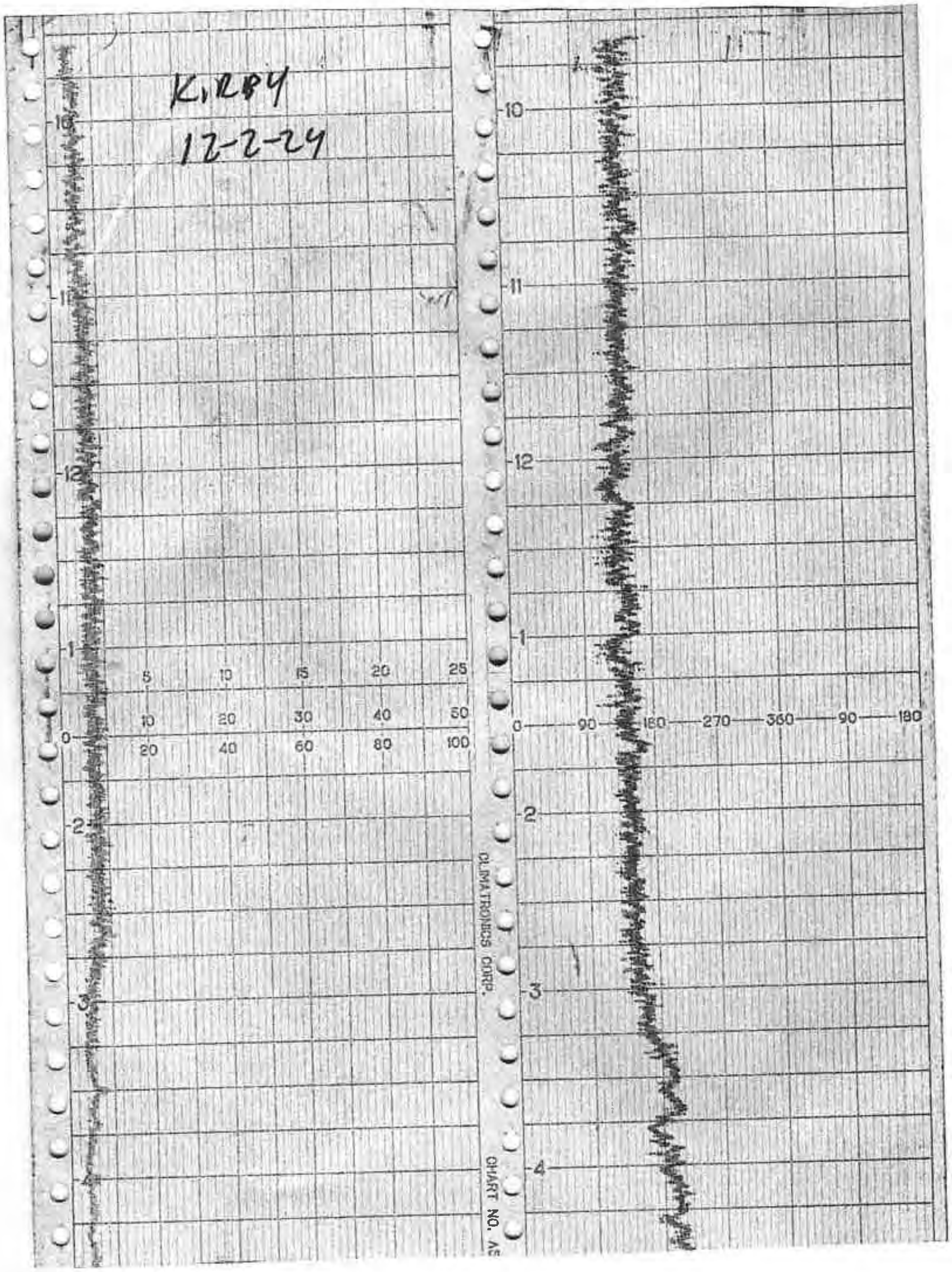


12-2-24

Attachment D

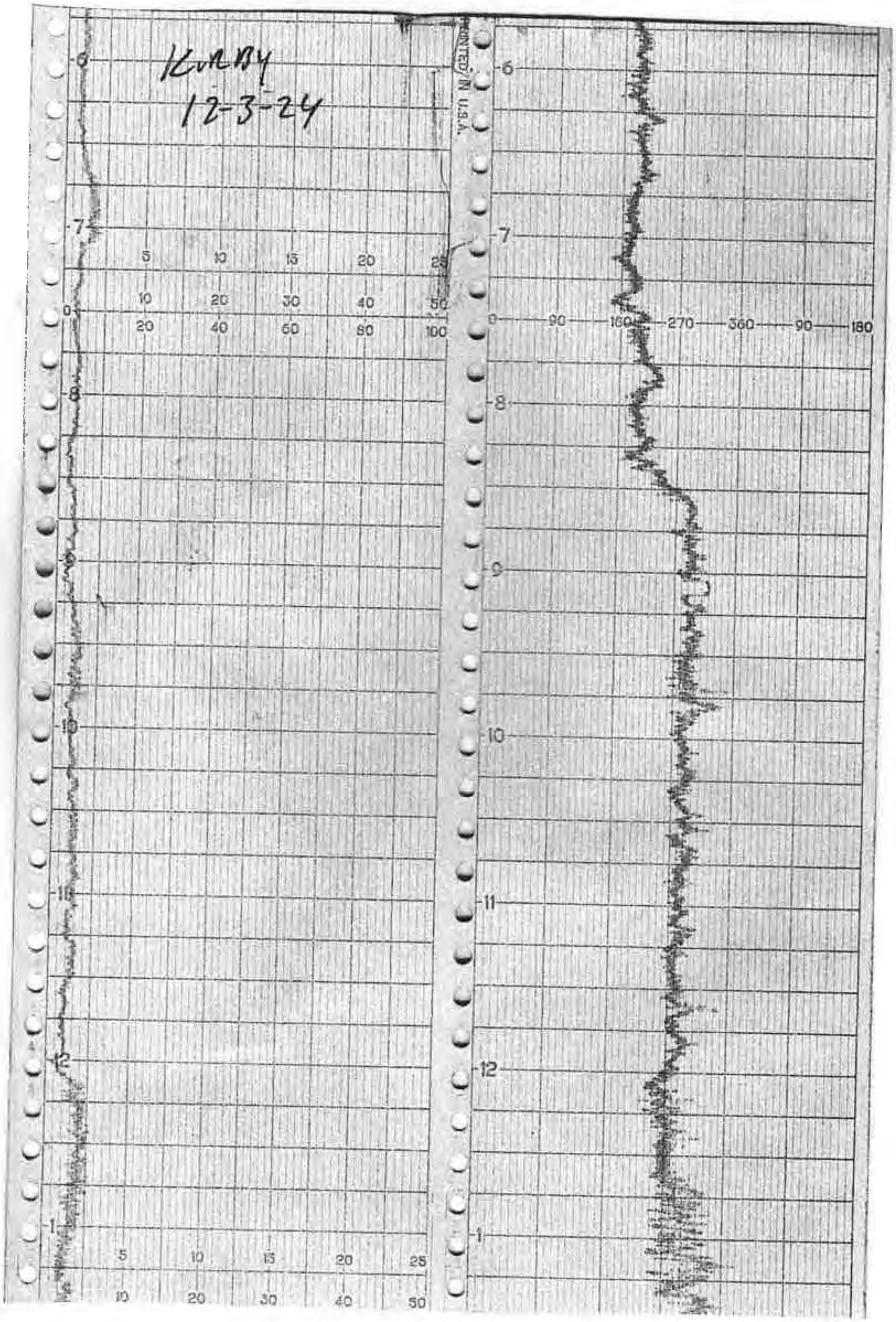
Weather Station Data

WIND SPEED & DIRECTION CHART ROLL



KiRBY
12-2-24

WIND SPEED & DIRECTION CHART ROLL



RES
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16-POINT WIND DIRECTION INDEX

NO	DIRECTION	DEGREES		
		FROM	CENTER	TO
16	NORTH (N)	348.8	360.0	011.3
1	NORTH-NORTHEAST (NNE)	011.3	022.5	033.8
2	NORTHEAST (NE)	033.8	045.0	056.3
3	EAST-NORTHEAST (ENE)	056.3	067.5	078.8
4	EAST (E)	078.8	090.0	101.3
5	EAST-SOUTHEAST (ESE)	101.3	112.5	123.8
6	SOUTHEAST (SE)	123.8	135.0	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	157.5	168.8
8	SOUTH (S)	168.8	180.0	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	202.5	213.8
10	SOUTHWEST (SW)	213.8	225.0	236.3
11	WEST-SOUTHWEST (WSW)	236.3	247.5	258.8
12	WEST (W)	258.8	270.0	281.3
13	WEST-NORTHWEST (WNW)	281.3	292.5	303.8
14	NORTHWEST (NW)	303.8	315.0	326.3
15	NORTH-NORTHWEST (NNW)	326.3	337.5	348.8

Attachment E

Calibration Records

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CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME KIRBY INSTRUMENT MAKE: THermo

MODEL: TVA1000 EQUIPMENT #: 10 SERIAL #: 1036346773

MONITORING DATE 12-2-24 TIME 1000

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	507 ppm	457 ppm	6
#2	495 ppm	445 ppm	6
#3	500 ppm	450 ppm	6
Calculate Response Time (1+2+3) / 3			6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.14 ppm	507 ppm	7
#2	0.10 ppm	495 ppm	1
#3	0.07 ppm	500 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		0.53 #DIV/0! Must be less than 10%

Performed By: LEISL WADE Date/Time: 12-2-24- 1000

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Kirby INSTRUMENT MAKE Thermo

MODEL: TVA1000 EQUIPMENT # 11 SERIAL #: 1036346772

MONITORING DATE 12-2-24 TIME 1000

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	490 ppm	440 ppm	7
#2	500 ppm	450 ppm	7
#3	500 ppm	450 ppm	7
Calculate Response Time (1+2+3) / 3			7 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.18 ppm	490 ppm	20
#2	0.16 ppm	500 ppm	0
#3	0.09 ppm	500 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		0.66 #DIV/0! Must be less than 10%

Performed By: Jerry Munoz Date/Time 12-2-24 - 1000

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Kirby INSTRUMENT MAKE Thermo

MODEL TVA 1000 EQUIPMENT #: 12 SERIAL #: 1036246741

MONITORING DATE 12-2-24 TIME: 1000

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	508 ppm	458 ppm	6
#2	495 ppm	445 ppm	6
#3	500 ppm	450 ppm	6
	Calculate Response Time (1+2+3) / 3		6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.21 ppm	508 ppm	8
#2	0.16 ppm	495 ppm	5
#3	0.10 ppm	500 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		0.86 #DIV/0! Must be less than 10%

Performed By Luis Arevalo Date/Time 12-2-24-1000

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THermo
MODEL: TVA 1000 EQUIPMENT #: 13 SERIAL #: 1102746775
MONITORING DATE: 12-2-24 TIME: 1000

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	492 ppm	442 ppm	6
#2	503 ppm	453 ppm	6
#3	500 ppm	450 ppm	6
Calculate Response Time (1+2+3) / 3			6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.09 ppm	492 ppm	8
#2	0.07 ppm	503 ppm	3
#3	0.05 ppm	500 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		0.73 #DIV/0! Must be less than 10%

Performed By: Anthony Canales Date/Time: 12-2-24 1000

RES
Environmental Inc

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Kirby INSTRUMENT MAKE Thermo
MODEL TVA1000 EQUIPMENT #: 16 SERIAL #: 1102746776
MONITORING DATE: 12-2-24 TIME 1000

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	495 ppm	445 ppm	5
#2	500 ppm	450 ppm	5
#3	500 ppm	450 ppm	5
Calculate Response Time	**(1+2+3) / 3**		5 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.14 ppm	495 ppm	5
#2	0.09 ppm	500 ppm	0
#3	0.16 ppm	500 ppm	0
Calculate Precision	**$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$**		6.20 #DIV/0! Must be less than 10%

Performed By: Date/Time: 12-2-24 1000

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KINDY INSTRUMENT MAKE: THERMO

MODEL: TVA1000 EQUIPMENT #: 10 SERIAL #: 1036346773

MONITORING DATE: 12-3-24 TIME: 0550

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{\text{(Upwind + Downwind)}}{2}$
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	24 ppm	21.6 ppm	4
#2	25 ppm	22.5 ppm	4
#3	25 ppm	22.5 ppm	4
Calculate Response Time $\frac{(1+2+3)}{3}$			4 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.14 ppm	24 ppm	1
#2	0.09 ppm	25 ppm	0
#3	0.07 ppm	25 ppm	0
Calculate Precision	$\frac{\text{[STD-B1] + [STD-B2] + [STD-B3]}}{3} \times \frac{1}{25} \times \frac{100}{1}$		1.3 #DIV/0! Must be less than 10%

Performed By Luis Luna Date/Time: 12-3-24 0550

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 11 SERIAL #: 1036346772

MONITORING DATE: 12-3-24 TIME: 0550

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	23 ppm	20.7 ppm	5
#2	25 ppm	22.5 ppm	5
#3	25 ppm	22.5 ppm	5
	Calculate Response Time (1+2+3) / 3		5 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.13 ppm	23 ppm	2
#2	0.11 ppm	25 ppm	0
#3	0.09 ppm	25 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		2.6 #DIV/0! Must be less than 10%

Performed By: Jerry [illegible] Date/Time: 12-3-24 - 0550

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME Kirby INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 12 SERIAL #: 1636246741

MONITORING DATE: 12-3-24 TIME: 0550

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{\text{(Upwind + Downwind)}}{2}$
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	24 ppm	21.6 ppm	6
#2	25 ppm	22.5 ppm	6
#3	25 ppm	22.5 ppm	6
Calculate Response Time $\frac{(1+2+3)}{3}$			6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.10 ppm	24 ppm	1
#2	0.08 ppm	25 ppm	0
#3	0.06 ppm	25 ppm	0
Calculate Precision	$\frac{\text{[STD-B1] + [STD-B2] + [STD-B3]}}{3} \times \frac{1}{25} \times \frac{100}{1}$		1.3 #DIV/0! Must be less than 10%

Performed By: Anthony Carlos Date/Time: 12-3-24 0550

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: tHorn

MODEL: TVA1000 EQUIPMENT #: 13 SERIAL #: 1102746775

MONITORING DATE: 12-3-24 TIME: 0550

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	24 ppm	21.6 ppm	6
#2	25 ppm	22.5 ppm	6
#3	25 ppm	22.5 ppm	6
Calculate Response Time (1+2+3) / 3			6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.13 ppm	24 ppm	1
#2	0.11 ppm	25 ppm	0
#3	0.09 ppm	25 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		1.3 #DIV/0! Must be less than 10%

Performed By: Luis Granado Date/Time: 12-3-24-0550

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KIRBY INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 16 SERIAL #: 1102746772

MONITORING DATE: 12-3-24 TIME: 0550

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind + Downwind})}{2}$
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	23 ppm	20.7 ppm	5
#2	25 ppm	22.5 ppm	5
#3	25 ppm	22.5 ppm	5
Calculate Response Time $\frac{(1+2+3)}{3}$			5 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.10 ppm	23 ppm	2
#2	0.07 ppm	25 ppm	0
#3	0.04 ppm	25 ppm	0
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		2.6 #DIV/0! Must be less than 10%

Performed By: Ben Jones Date/Time: 12-3-24- 0550

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #10

SERIAL NUMBER: 1036346773

TECHNICIAN:

DATE: 10-4-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	503	+/- 125
10000	10000	10291	+/- 2500
< 1	ZERO GAS	0.69	< 3

PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

RES
Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #11

SERIAL NUMBER: 1036346774

TECHNICIAN: DATE: 10-4-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.60	< 3

PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #12

SERIAL NUMBER: 1036246741

TECHNICIAN: ______ DATE: 10-4-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID

METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,009	+/- 2500
< 1	ZERO GAS	0.65	< 3

PID

ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

RES
Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES UNIT #13

SERIAL NUMBER: 1102746775

TECHNICIAN:

DATE: 10-4-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID

METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,019	+/- 2500
< 1	ZERO GAS	0.63	< 3

PID

ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

RES
Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES UNIT #16

SERIAL NUMBER: 1102746776

TECHNICIAN:

DATE: 10-4-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.49	< 3

PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator:

Date: 12-7-24 Time: 0830

Model # TVA 1000

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST

Battery test [✓ Pass] / Fail

Reading following ignition 2.31 ppm

Leak test [✓ Pass] / Fail / NA

Clean system check (check valve chatter) [✓ Pass] / Fail / NA

H_2 supply pressure gauge (acceptable range 9.5 - 12) [✓ Pass] / Fail / NA

Date of last factory calibration 10-4-24

Factory calibration record w/instrument within 3 months [✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 6
2. 6
3. 6

Average 6.0

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH4 gas.

Comments:

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator:

Date: 12-7-24 Time: 0845

Model # TVA 1000

Serial # #11 1036346774

INSTRUMENT INTEGRITY CHECKLIST

Battery test	[✓ Pass] / Fail
Reading following ignition	2.61 ppm
Leak test	[✓ Pass] / Fail / NA
Clean system check (check valve chatter)	[✓ Pass] / Fail / NA
H_2 supply pressure gauge (acceptable range 9.5 - 12)	[✓ Pass] / Fail / NA
Date of last factory calibration	10-4-24
Factory calibration record w/instrument within 3 months	[✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 5
2. 5
3. 6

Average 5.3

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH4 gas.

Comments:

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator:

Date: 12-7-24 Time: 0900

Model # TVA 1000

Serial # #12 1036246741

INSTRUMENT INTEGRITY CHECKLIST

Battery test	[✓ Pass] / Fail
Reading following ignition	2.1 ppm
Leak test	[✓ Pass] / Fail / NA
Clean system check (check valve chatter)	[✓ Pass] / Fail / NA
H_2 supply pressure gauge (acceptable range 9.5 - 12)	[✓ Pass] / Fail / NA
Date of last factory calibration	10-4-24
Factory calibration record w/instrument within 3 months	[✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%.

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 6
2. 6
3. 6

Average 6.0

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH_4 gas.

Comments:

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator:

Date: 12-7-24 Time: 0915

Model # TVA 1000

Serial # #13 1102746725

INSTRUMENT INTEGRITY CHECKLIST

Battery test [✓ Pass] / Fail

Reading following ignition 2.3 ppm

Leak test [✓ Pass] / Fail / NA

Clean system check (check valve chatter) [✓ Pass] / Fail / NA

H_2 supply pressure gauge (acceptable range 9.5 - 12) [✓ Pass] / Fail / NA

Date of last factory calibration 10-4-24

Factory calibration record w/instrument within 3 months [✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 6
2. 6
3. 5

Average 5.6

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH4 gas.

Comments:

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator:

Date: 12-7-24 Time: 1000

Model # TVA 1000

Serial # #16 1102746776

INSTRUMENT INTEGRITY CHECKLIST

Battery test [✓ Pass] / Fail

Reading following ignition 3.01 ppm

Leak test [✓ Pass] / Fail / NA

Clean system check (check valve chatter) [✓ Pass] / Fail / NA

H_2 supply pressure gauge (acceptable range 9.5 - 12) [✓ Pass] / Fail / NA

Date of last factory calibration 10-4-24

Factory calibration record w/instrument within 3 months [✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 6
2. 6
3. 6

Average 6.0

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH4 gas.

Comments:

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon

Date: 12/3/24

Time: 5 00 AM ______ PM

Instrument Make: Thermo Scientific

Model: TVA 1000B

S/N: 0928538411

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.

   Stable Reading = 502

3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 0 ppm (a)
2. Downwind Reading (highest in 30 seconds): 0 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2}$$

Background = 0 ppm

Performed by: ________

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 12/20/24

Time: 530 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000B S/N: 0928538411

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.

   Stable Reading = 503
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 0 ppm (a)
2. Downwind Reading (highest in 30 seconds): 1 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 0.5 ppm

Performed by: ____________

CALIBRATION PRECISION TEST RECORD

Date: 10/18/24

Expiration Date (3 months): 1/18/25

Time: 5:15 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 508 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 504 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 502 ppm (f)

Calculate Precision:

$$\frac{\{|(496) - (500)| + |(500) - (498)| + |(500) - (496)|\}}{3} \times \frac{1}{500} \times 100$$

1.0 % (must be < than 10%)

Performed by: T. Robles

RESPONSE TIME TEST RECORD

Date: 10/18/24

Expiration Date (3 months): 1/18/25

Time: 5:25 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 507 ppm
90% of the Stabilized Reading: 496 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 505 ppm
90% of the Stabilized Reading: 495 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 502 ppm
90% of the Stabilized Reading: 489 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 10 seconds (must be less than 30 seconds)

Performed by: T. Robles


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CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number	07152
Order Number	76196892
PO Number	04C45974

Lot Number	4-131-80
Norlab Part#	J1971500PA
Cylinder Size	103 Liter
Number of Cyl	5
Customer Part#	N/A

Date on Manufacture	10/10/2024
Expires	10/2028
Analytical Accuracy	+/- 2 %

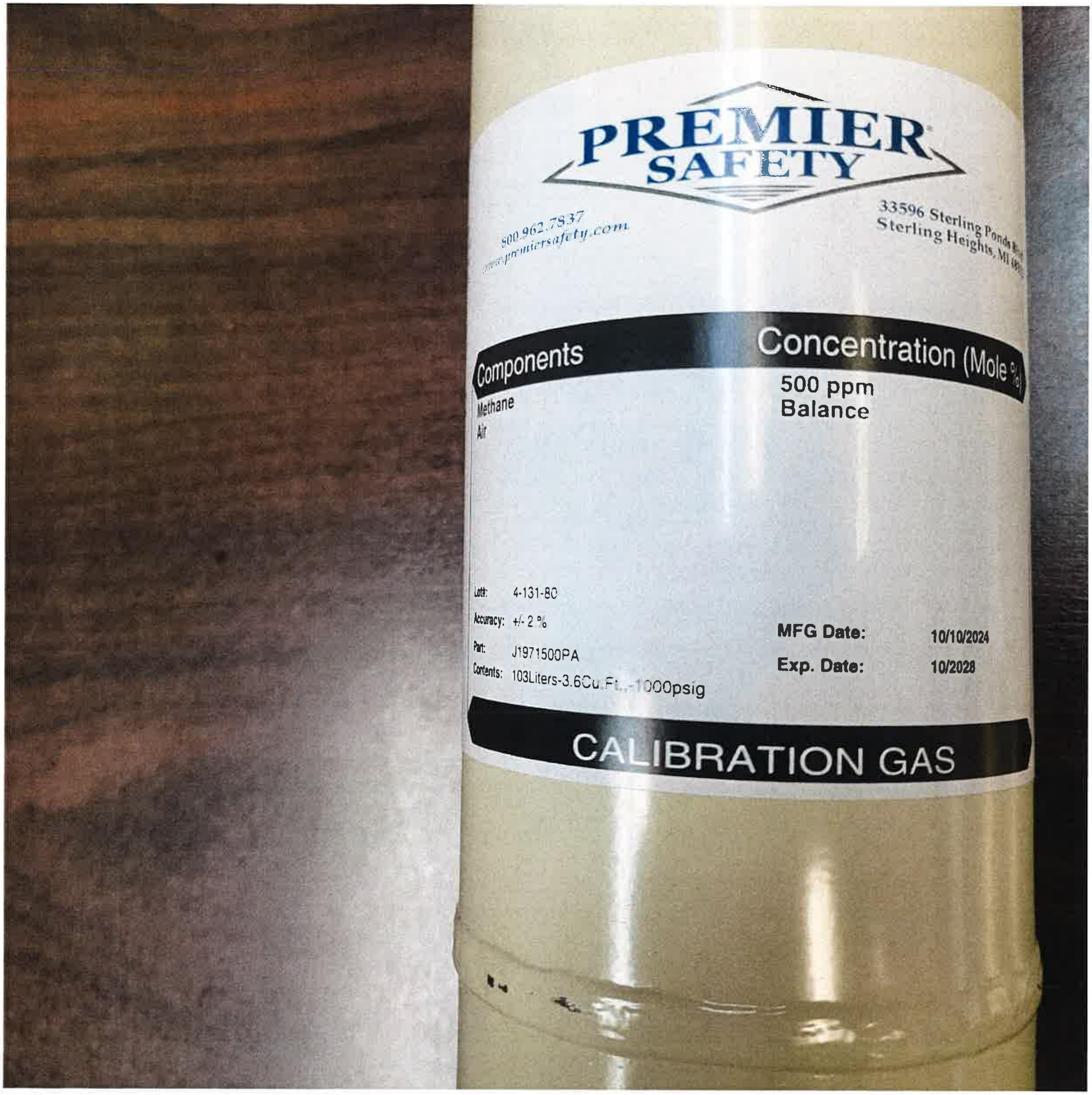
Component	**Reported Concentration**	**Requested Concentration**
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: ______________________ Date Signed: 10/10/2024

David Reed
Lab Technician



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www.premiersafety.com

33596 Sterling Ponds
Sterling Heights, MI

Components	Concentration (Mole %)
Methane	500 ppm
Air	Balance

Lot#: 4-131-80
Accuracy: +/- 2 %
Part: J1971500PA
Contents: 103Liters-3.6Cu.Ft.-1000psig

MFG Date: 10/10/2024
Exp. Date: 10/2028

CALIBRATION GAS

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CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 69679439
PO Number 04906817

Lot Number	2-154-85
Norlab Part#	J1002
Cylinder Size	103 Liter
Number of Cyl	1

Customer Part# N/A

Date on Manufacture	6/13/2022
Expires	06/2025
Analytical Accuracy	Certified

Component	Reported Concentration	Requested Concentration
Air	Zero Grade	Zero Grade
Oxygen	20.9 %	20.9 %
T.H.C. (as Methane)	< 1.0 ppm	< 1.0 ppm
Nitrogen	Balance	Balance

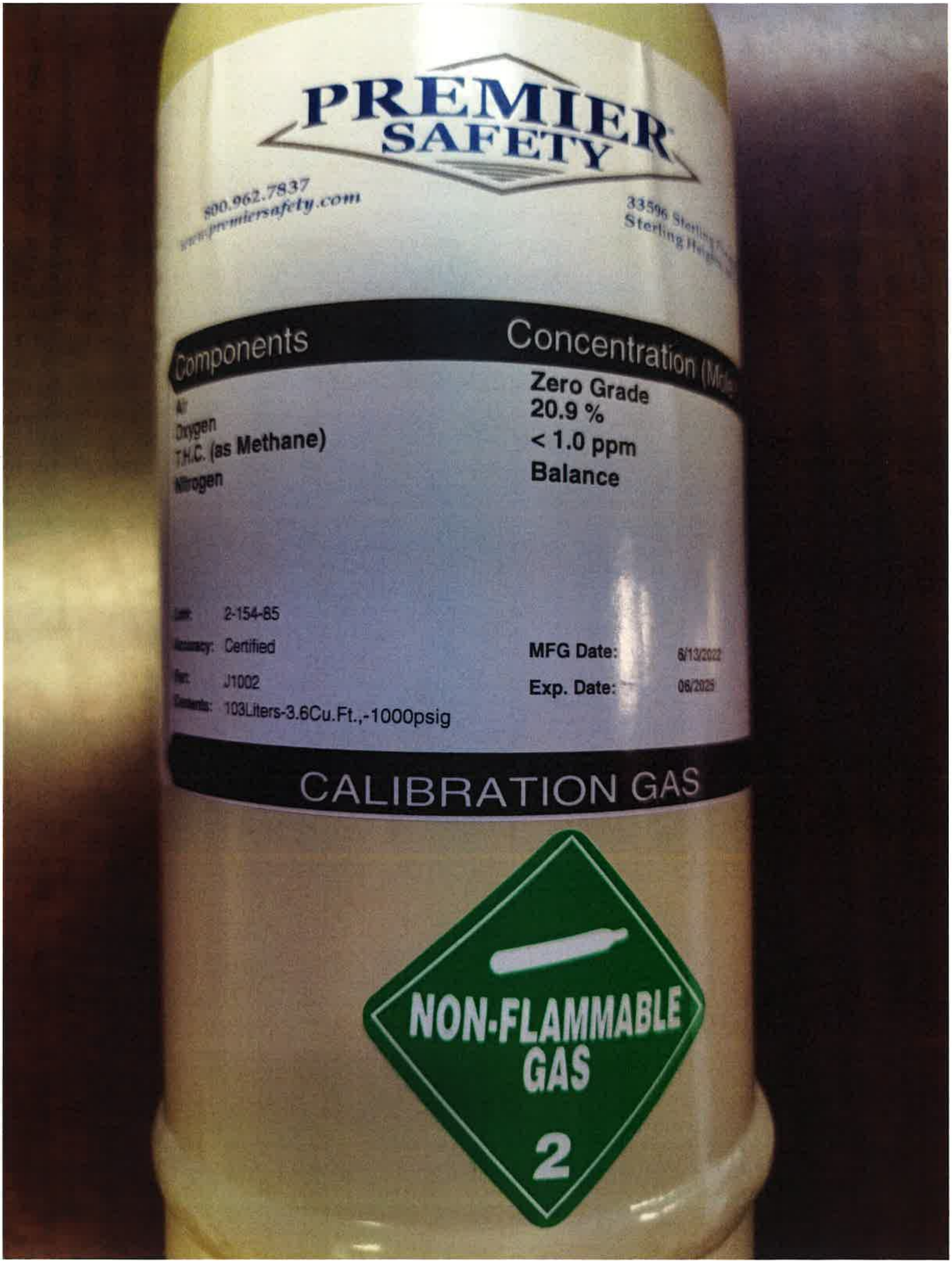
Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Minor constituents tested with standards traceable to NIST by mass or comparison to SRM's (Standard Reference Materials).

NIST Traceable Numbers are available upon request.

Approved: Date Signed: 6/13/2022

David Reed
Lab Technician



PREMIER SAFETY

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33596 Sterlin
Sterling Heig

Components	Concentration (Mo
Air	Zero Grade
Oxygen	20.9 %
T.H.C. (as Methane)	< 1.0 ppm
Nitrogen	Balance

Lot: 2-154-85
Accuracy: Certified
Ref: J1002
Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 6/13/2022
Exp. Date: 06/2025

CALIBRATION GAS

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CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
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Cust Number	07152
Order Number	75275610
PO Number	04B84126

Lot Number	4-176-81
Norlab Part#	J197125PA
Cylinder Size	103 Liter
Number of Cyl	3

Date on Manufacture	6/25/2024
Expires	06/2028
Analytical Accuracy	+/- 5 %

Customer Part# N/A

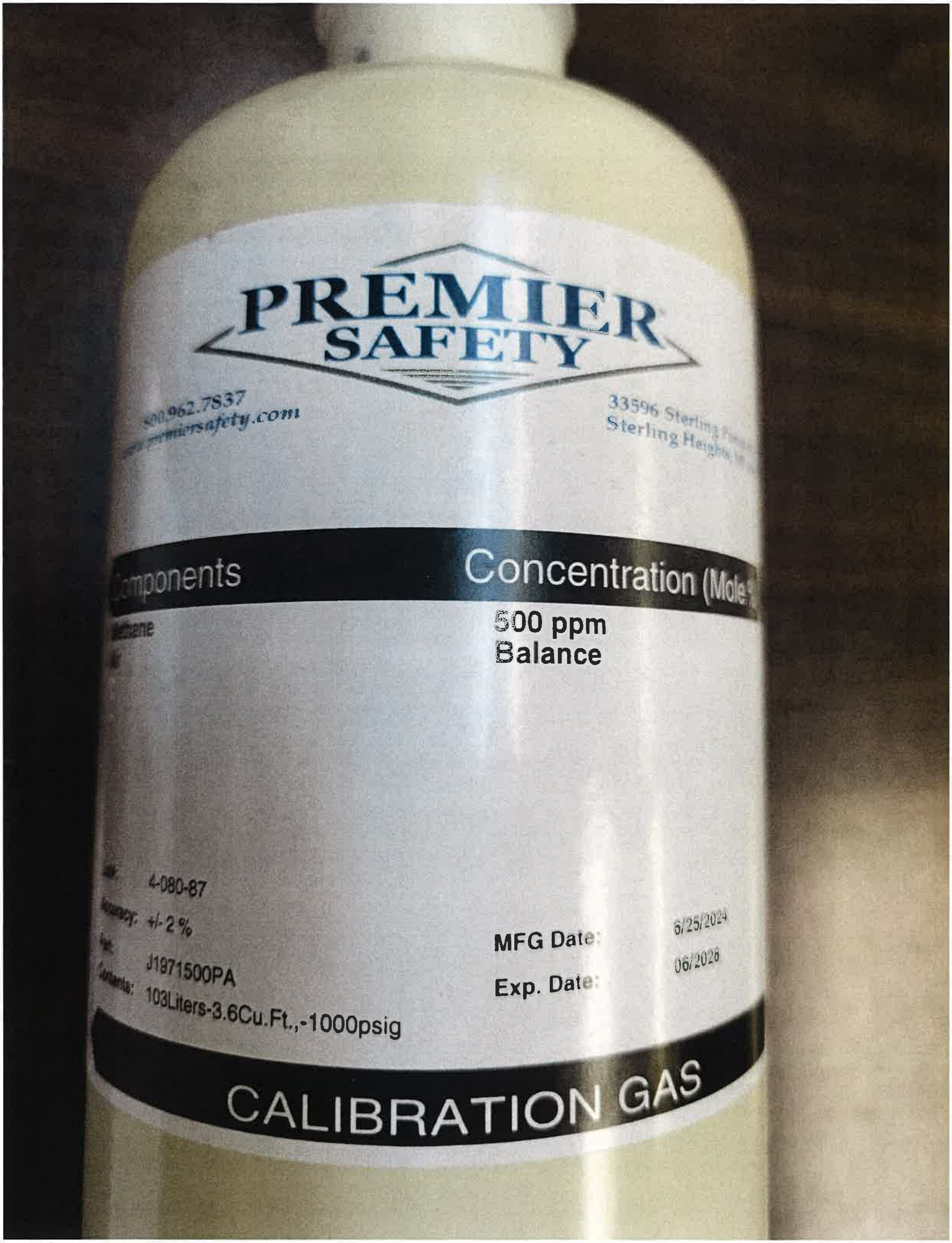
Component	**Reported Concentration**	**Requested Concentration**
Methane	25 ppm	25 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: ______________________ Date Signed: 6/25/2024
David Reed
Lab Technician

898 W. GOWEN ROAD • BOISE, IDAHO 83705
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672



omponents	Concentration (Mole
ethane	500 ppm
	Balance

4-080-87

ccuracy: +/- 2 %

J1971500PA

ontents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 6/25/2024

Exp. Date: 06/2028

CALIBRATION GAS

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CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	25 ppm	± 5%
Air	Balance	

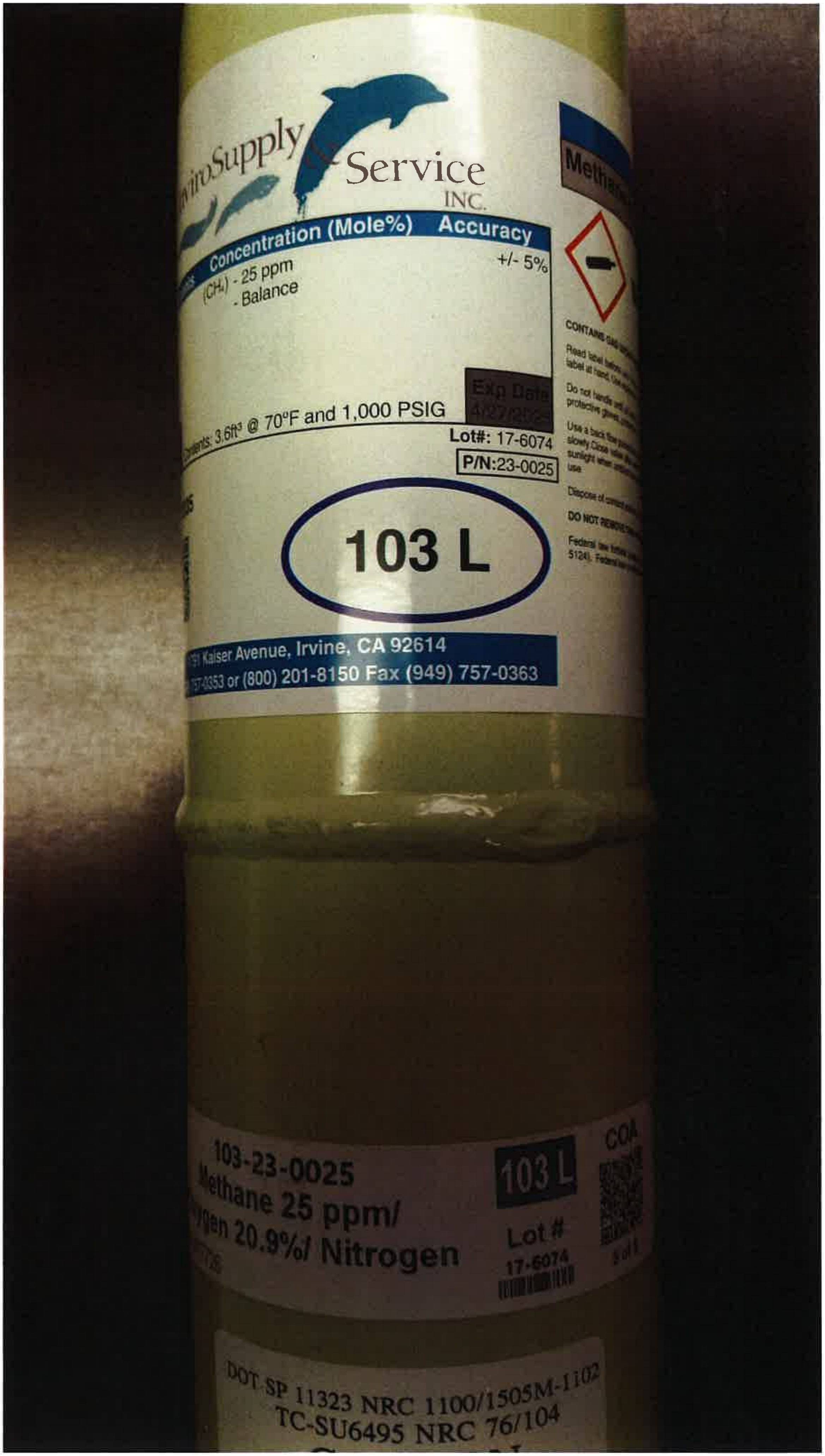
Lot # 17-6074

Mfg. Date: 10/16/2017
Parent Cylinder ID Number: 17161

Method of Preparation:
Gravimetric/Pressure Transfilled

Method of Analysis:
The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 10/16/2017


viroSupply
Service
INC.
Methan
Concentration (Mole%)
Accuracy
(CH₄) - 25 ppm
- Balance
+/- 5%
CONTAINS GAS
Exp Date
4/27/2025
ontents: 3.6ft³ @ 70ºF and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Kaiser Avenue, Irvine, CA 92614
757-0353 or (800) 201-8150 Fax (949) 757-0363
103-23-0025
ethane 25 ppm/
ygen 20.9%/ Nitrogen
103 L
Lot #
17-6074
COA
DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104

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Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 73732858
PO Number 04B70733

Lot Number	3-340-62
Norlab Part#	J197125PA
Cylinder Size	103 Liter
Number of Cyl	5
Customer Part#	N/A

Date on Manufacture	12/7/2023
Expires	12/2027
Analytical Accuracy	+/- 5 %

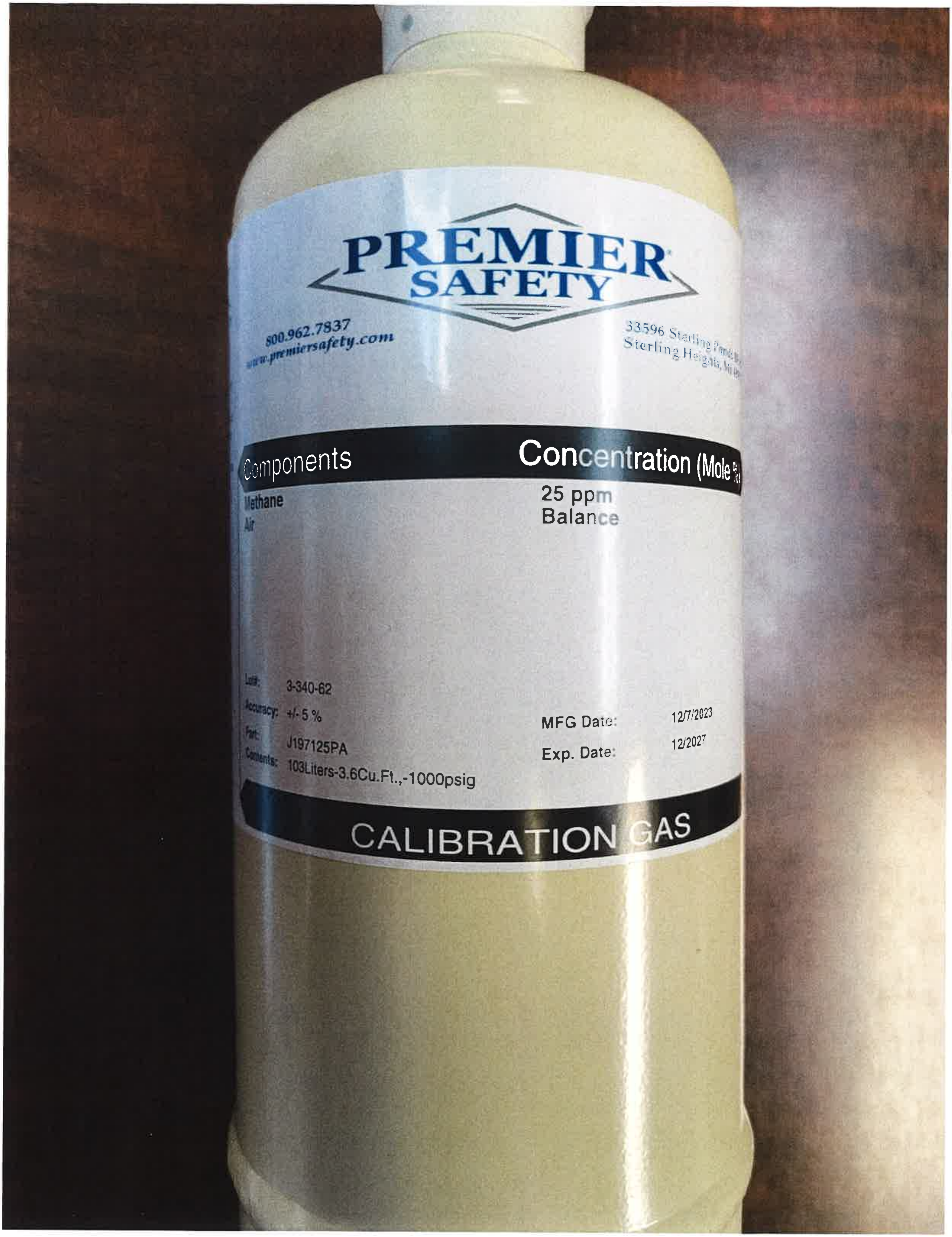
Component	Reported Concentration	Requested Concentration
Methane	25 ppm	25 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: ______________________ Date Signed: 12/7/2023

Aaron Schwenken
Lab Manager



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Sterling Heights, MI

Components	Concentration (Mole %
Methane	25 ppm
Air	Balance

Lot#: 3-340-62
Accuracy: +/- 5 %
Part: J197125PA
Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 12/7/2023
Exp. Date: 12/2027

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Sterling Hights MI 48312

Cust Number	07152
Order Number	69671309
PO Number	08361523

Lot Number	2-108-80
Norlab Part#	J1971500PA
Cylinder Size	103 Liter
Number of Cyl	1

Date on Manufacture	6/10/2022
Expires	06/2025
Analytical Accuracy	+/- 2 %

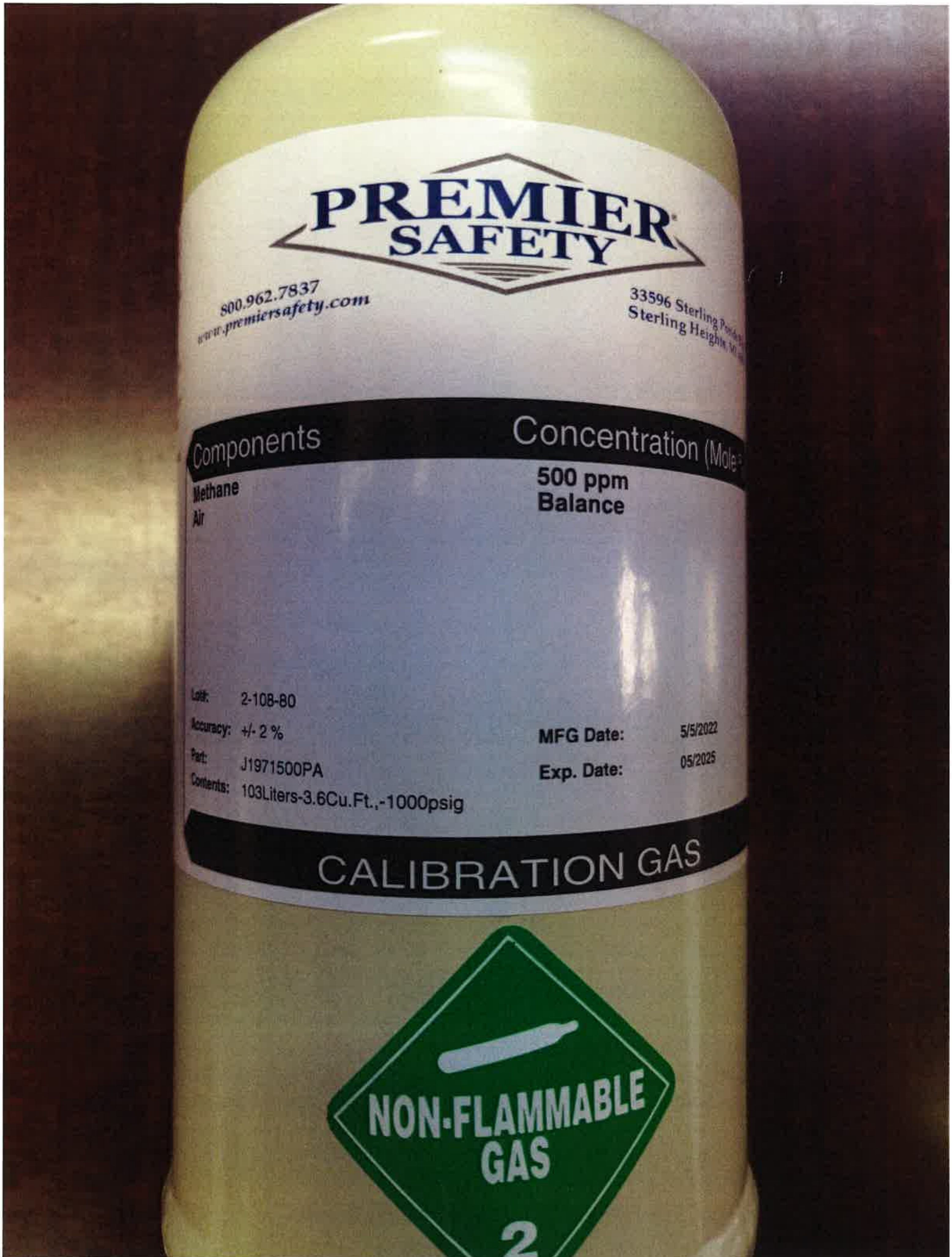
Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: Date Signed: 6/10/2022
David Reed
Lab Technician



Components	Concentration (Mole
Methane	500 ppm
Air	Balance

Lot#: 2-108-80

Accuracy: +/- 2 %

Part: J1971500PA

Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 5/5/2022

Exp. Date: 05/2025

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Norco, Inc
Twin Falls Warehouse
203 S. Park Ave. West
Twin Falls, ID 83301

Cust Number	WH012
Order Number	71846398
PO Number	04A35563

Lot Number	3-088-88
Norlab Part#	J1971500PA
Cylinder Size	103 Liter
Number of Cyl	5
Customer Part#	N/A

Date on Manufacture	4/7/2023
Expires	04/2027
Analytical Accuracy	+/- 2 %

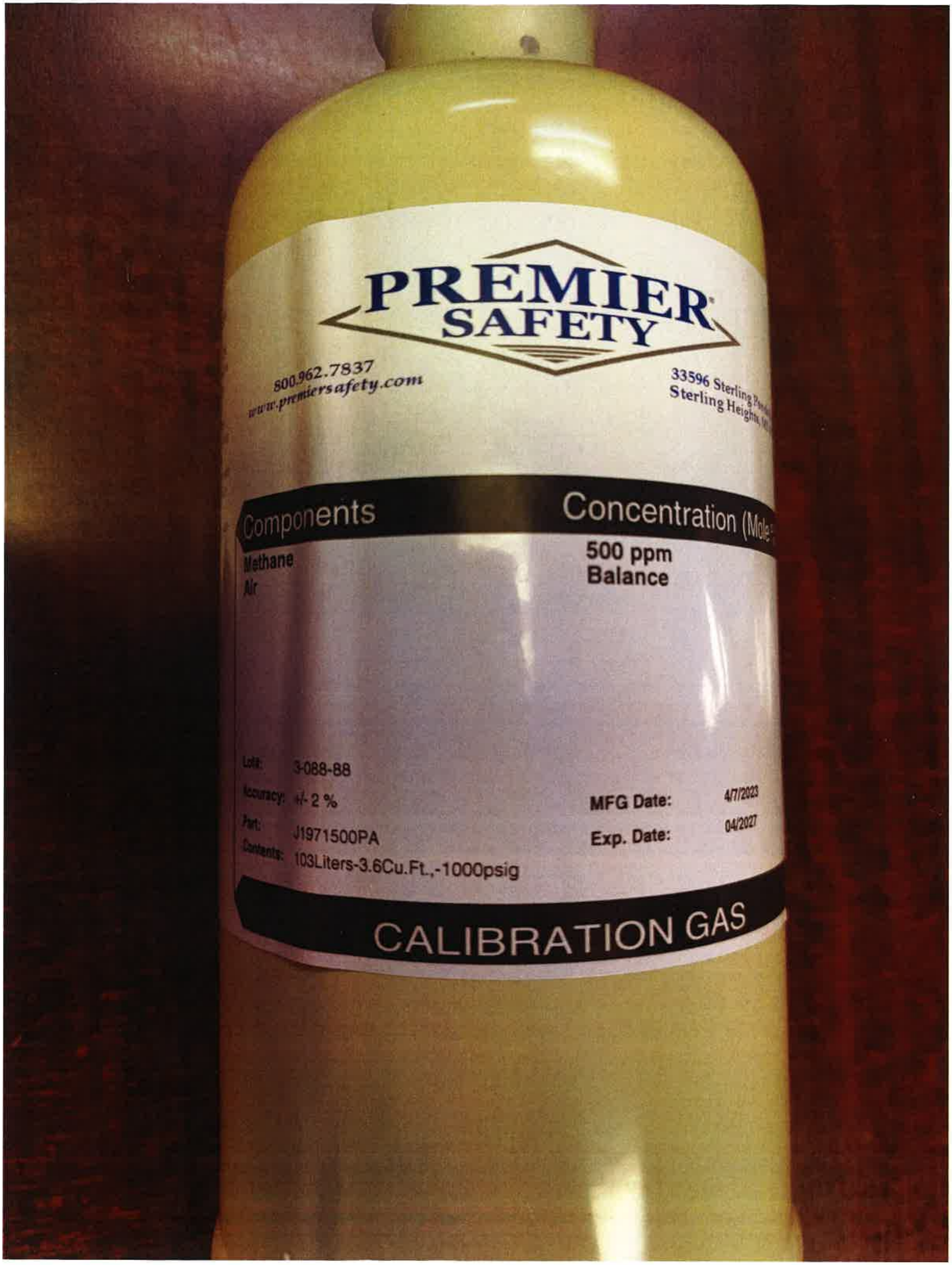
Component	**Reported Concentration**	**Requested Concentration**
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: Date Signed: 4/7/2023

Jeff Korn
Lab Technician



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33596 Sterling P
Sterling Heights,

Components	Concentration (Mole
Methane	500 ppm
Air	Balance

Lot#: 3-088-88
Accuracy: +/- 2 %
Part: J1971500PA
Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 4/7/2023
Exp. Date: 04/2027

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Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 73732858
PO Number 04B70733

Lot Number	3-340-61
Norlab Part#	J1971500PA
Cylinder Size	103 Liter
Number of Cyl	5
Customer Part#	N/A

Date on Manufacture	12/7/2023
Expires	12/2027
Analytical Accuracy	+/- 2 %

Component	**Reported Concentration**	**Requested Concentration**
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: ____________________ Date Signed: 12/7/2023
Aaron Schwenken
Lab Manager


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33596
Sterling
Components
Concentration
Methane
Air
500 ppm
Balance
Lots: 3-340-61
Accuracy: +/- 2 %
Part: J1971500PA
Contents: 103Liters-3.6Cu.Ft.,-1000psig
MFG Date:
Exp. Date:
CALIBRATION GAS

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Premier Safety & Service

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Cust Number	07152
Order Number	75836320
PO Number	04C23328

Lot Number	4-236-82
Norlab Part#	J1002
Cylinder Size	103 Liter
Number of Cyl	2

Date on Manufacture	8/29/2024
Expires	08/2028
Analytical Accuracy	Certified

Customer Part# N/A

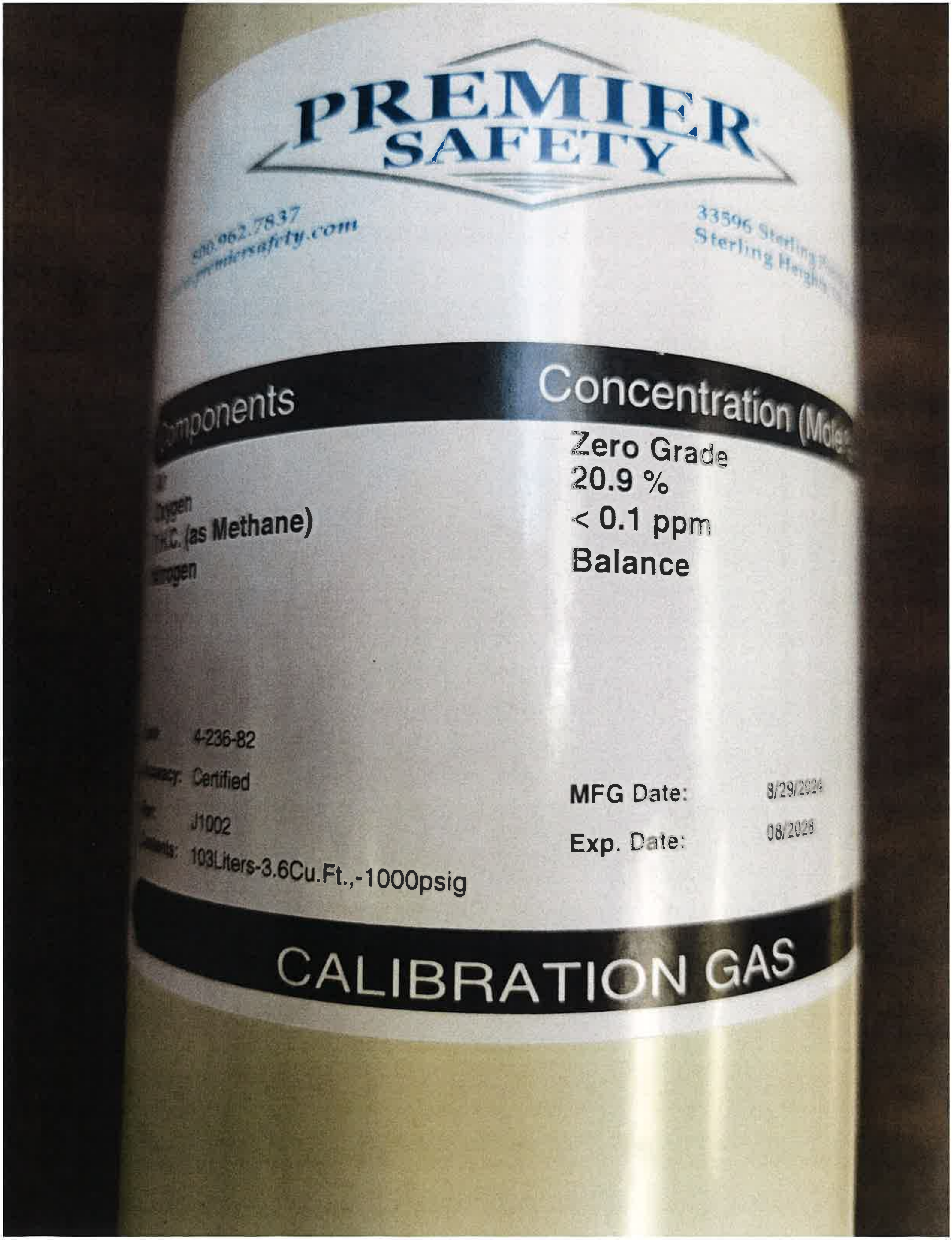
Component	**Reported Concentration**	**Requested Concentration**
Air	Zero Grade	Zero Grade
Oxygen	20.9 %	20.9 %
T.H.C. (as Methane)	< 0.1 ppm	< 0.1 ppm
Nitrogen	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Minor constituents tested with standards traceable to NIST by mass or comparison to SRM's (Standard Reference Materials).

NIST Traceable Numbers are available upon request.

Approved: ______________________ Date Signed: 8/29/2024
David Reed
Lab Technician



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33596 Sterling
Sterling Heights

mponents	Concentration (Mole
ir	Zero Grade
Oxygen	20.9 %
T.H.C. (as Methane)	< 0.1 ppm
itrogen	Balance

4-236-82
acy: Certified
J1002
nts: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 8/29/2024
Exp. Date: 08/2026

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Cust Number	07152
Order Number	75275610
PO Number	04B84126

Lot Number	4-080-87
Norlab Part#	J1971500PA
Cylinder Size	103 Liter
Number of Cyl	5

Customer Part# N/A

Date on Manufacture	6/25/2024
Expires	06/2028
Analytical Accuracy	+/- 2 %

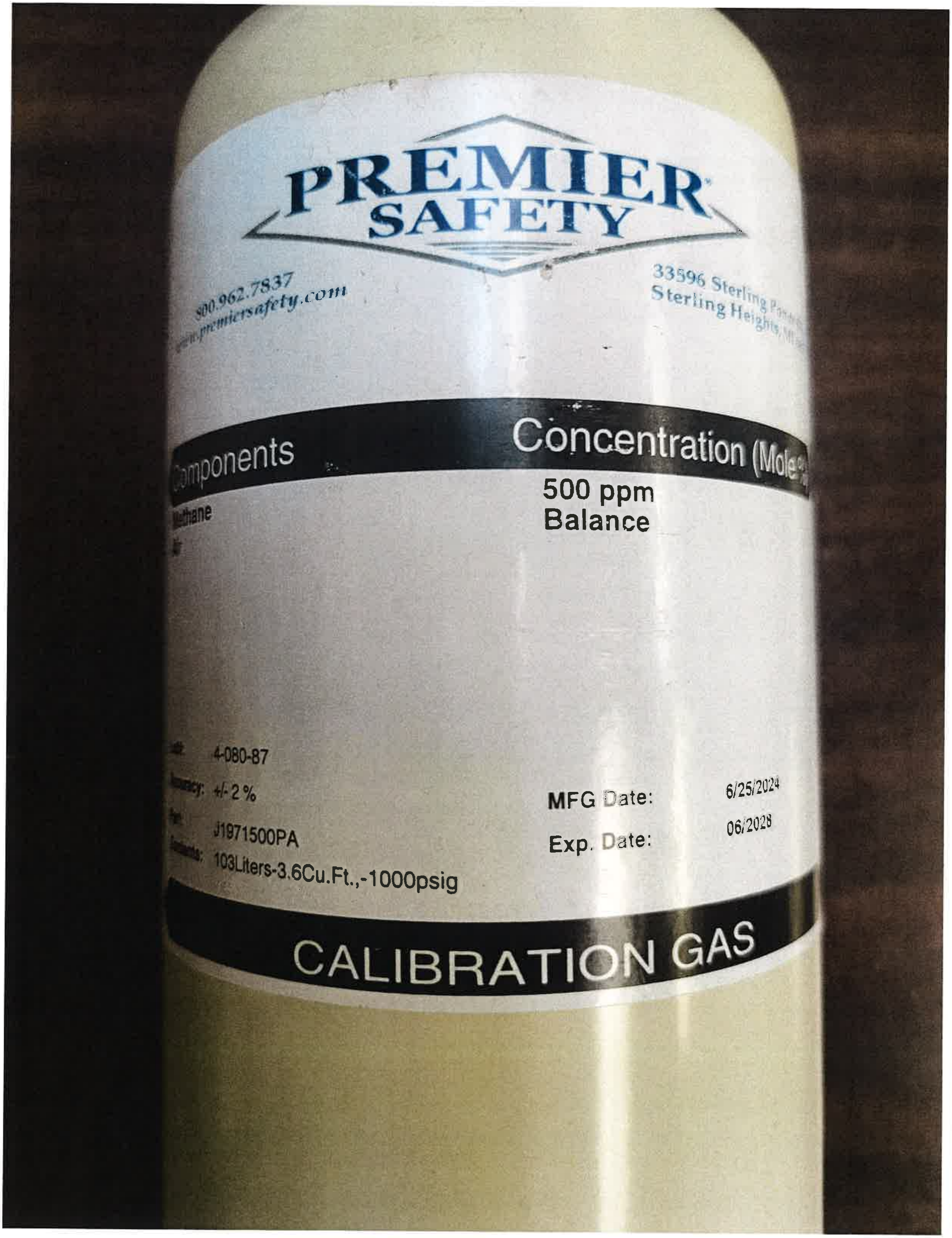
Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: Date Signed: 6/25/2024

David Reed
Lab Technician



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33596 Sterling Pon
Sterling Heights, MI

Components	Concentration (Mole
Methane	500 ppm
Air	Balance

4-080-87
+/- 2 %
J1971500PA
103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 6/25/2024
Exp. Date: 06/2028

CALIBRATION GAS

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

September 25, 2024

Ms. Becky Azevedo
Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, CA 95037

Re: Third Quarter 2024 Surface Emissions and Component Leak Monitoring Report for the Kirby Canyon Recycling and Disposal Facility

Dear Ms. Azevedo:

This monitoring report for the "**Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill**" contains the results of the **Third Quarter 2024 Integrated and Instantaneous** Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by RES Environmental, Inc. (RES). Re-monitoring of surface emissions was conducted by KCRDF personnel.

APPLICABLE REQUIREMENTS

The monitoring discussed in this report was conducted in accordance with the following requirements:

Surface Emission Monitoring (SEM)

- New Source Performance Standard (NSPS), Title 40 of the Code of Federal Regulations (CFR) §60.755 (c) and (d), 40 CFR 60, Appendix A Method 21, promulgated by the United States Environmental Protection Agency (USEPA).

- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95460 to §95476, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).

- Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) and Section 607 (Landfill Surface Inspection procedures).

- United States Environmental Protection Agency's (USEPA) *Standards of Performance for Municipal Solid Waste Landfills*; 40 Code of Federal Regulations (CFR) Part 63, Subpart AAAA-National Emission Standards for Hazardous Air Pollutants (NESHAP).

Component Leak Monitoring

- Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 301 (Landfill Gas Collection and Emission Control System Requirements) and Section 602 (Collection and Control System Leak Inspection procedures).

- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95464, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).

KCRDF Plan and Alternative Compliance Measures

An Alternative Compliance Option (ACO) Request was submitted to the California Air Resources Board (CARB) on May 16, 2011. After receipt of comments, this ACO was amended, restated, and submitted to BAAQMD on July 1, 2016. SEM and Component Leak monitoring was conducted per the methods outlined in the July 1, 2016, ACO.

PROCEDURES

General

The surface of the KCRDF disposal area has been divided into one-hundred-and-fifty (150), approximately 50,000 square foot monitoring grids. The entire landfill surface is monitored with the exception of active portions of the Landfill, slope areas, and as requested in the approved ACO, areas containing only asbestos-containing waste, inert waste and/or non-decomposable waste which are excluded for safety as allowed by CCR Title 17 §95466.

Field personnel walked the surface of the landfill following the 25-foot interval walking pattern as depicted the 2011 KCRDF AB-32 SEM Plan, which traverses each monitoring grid. Additionally, in accordance with the provisions of 40 CFR 60.753(d) and 60.755(c)(1-3), the entire perimeter of the landfill surface was monitored. During the event, special attention was given to monitoring unusual cover conditions (stressed vegetation, cracks, seeps, etc.) and any areas with unusual odors.

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was calibrated to 500 parts per million by volume (ppm_v) methane, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a) and NSPS. The FID was calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The Instantaneous SEM procedures followed the requirements of 40 CFR 60.755 (c) and (d) and CCR Title 17 §95471(c)(2).

RES personnel walked the surface of the landfill on a grid-by-grid basis with the wand tip held at 2 inches from the landfill surface. While sampling the grid; the technicians also checked any surface impoundments (wells or otherwise) for leaks. Technicians also checked any surface cracks, seeps, or other areas that show evidence of surface emissions (odors or distressed vegetation). Active and sloped areas excluded for safety were documented on field data sheets and maps.

All instantaneous surface monitoring was performed in accordance with the applicable requirements referenced in this report. Any detections of methane above 200 ppm_v (areas of concern) or 500 ppm_v (exceedances) for instantaneous were recorded, flagged, and marked on an SEM Map, which, wherever required, is included in the Appendices of this report. Applicable corrective action and re-monitoring timelines are listed below:

- Corrective actions must be initiated within 5 days of the initial exceedance and re-monitoring shall be conducted within 10 days of the initial exceedance.
    - If the re-monitoring event shows the exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance.
    - If the 1-month re-monitoring event shows the location is still corrected, all re-monitoring requirements have been completed.
- If either the first 10-day or 1-month re-monitoring events show a second exceedance, additional corrective actions shall be completed, and a second re-monitoring event shall be conducted within 10 days of the second exceedance.
- If the second 10-day re-monitoring event shows the second exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance. If the 1-month re-monitoring event shows the area is still corrected, monitoring requirements have been completed.

If any location shows three exceedances, an additional well shall be installed within 120 days of the initial exceedance.

Integrated Surface Emissions Monitoring

The Integrated surface monitoring was conducted using a TVA 1000 calibrated to 25 ppm_v for the integrated monitoring, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The field technician traversed the grid walking path over a continuous 25-minute period using the TVA 1000 held within 3 inches above the landfill surface. The Integrated monitoring procedures followed the requirements of CCR Title 17 §95471(c)(3).

Grids with results greater than 25 ppm_v were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppm_v are subject to the following re-monitoring timeline:

- Re-monitoring shall be conducted within 10 days of the initial exceedance.
- If the 10-day re-monitoring event shows the exceedance is corrected, all re-monitoring requirements have been completed.
- If either the first 10-day re-monitoring event shows a second grid exceedance, additional corrective actions shall be completed, and a second re-monitoring event shall be conducted within 10 days of the second exceedance.

- If the second 10-day re-monitoring event shows the second exceedance is corrected, all re-monitoring requirements have been completed.

- The second 10-day re-monitoring event shows a third grid exceedance, an additional well shall be installed within 120 days of the third exceedance.

Component Leak Monitoring Procedures

RES personnel monitored the exposed LFG components under positive pressure (pipes, wellheads, valves, blowers, and other mechanical appurtenances) using a TVA 1000 calibrated to 500 ppm_v. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppm_v per requirements outlined in pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B) and 1,000 ppm_v per requirements outlined in BAAQMD 8-34-303 were recorded. Applicable corrective action and re-monitoring timelines are listed below:

- Leaks between 500 and 999 ppm_v must be corrected and re-monitored within 10 days of the initial exceedance.

- Leaks at or above 1000 ppm_v must be corrected and re-monitored within 7 days of the initial exceedance.

THIRD QUARTER 2024 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the Third Quarter 2024.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on July 24, 2024, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

Initial Monitoring Event Exceedances of 500 ppm_v

There were 2 exceedances of 500 ppm_v as methane detected on July 24, 2024. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (on July 24, 2024).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on July 24, 2024. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on August 16, 2024. All locations were observed at less than 500 ppm_v.

Readings between 200 ppm$_v$ and 499 ppm$_v$ (Initial and Re-monitored)

There were no readings between 200 ppm$_v$ and 499 ppm$_v$ as methane detected during the initial monitoring event on July 24, 2024. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm$_v$ but below 500 ppm$_v$ are required to be recorded.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on July 23 and 24, 2024, in accordance with the ACO and requirements outlined in CCR Title 17 §95469.

Initial Monitoring Event Exceedances of 25 ppm$_v$

There were no grids with exceedances of 25 ppm$_v$ as methane detected during the initial monitoring event on July 23 and 24, 2024.

The average methane concentration of each grid was recorded during the monitoring event per applicable requirements. See Attachment B, Integrated SEM 25 ppm$_v$ Exceedances and Monitoring Log, and SEM Map included in Attachment B, for details.

Component Leak Monitoring Results

Component leak monitoring was conducted per the applicable requirements on July 24, 2024. No leaks greater than 500 ppm$_v$ were identified. Please see Attachment C, for details.

WEATHER CONDITIONS

Wind Speed Conductions during the Surface Emission Monitoring Events

Wind speeds during initial monitoring were monitored using a portable weather station. The station has a strip chart that records the wind speed and direction. After completion of monitoring, the strip chart is reviewed by RES office staff to determine the average and maximum wind speeds during the monitoring and the average wind direction during each grid and ensure that the wind speed requirements are met (no gusts greater than 20 mph, average wind speed cannot exceed 10 mph). These values are documented in the field data sheets. The chart data is scanned and included in Attachment D.

Precipitation Requirements

Per the KCRDF's ACO, the initial monitoring event was carefully scheduled so that it could be conducted in compliance with the precipitation requirements (no measurable precipitation within 24 hours). Re-monitoring events are required to adhere to strict timelines. Any conflicts with precipitation requirements are discussed in the results section of this document.

EQUIPMENT CALIBRATION

The portable analyzers were calibrated to meet the instrument specifications requirements of U.S. EPA Method 21. The calibration gas used was methane, diluted to a nominal concentration of 25

ppm_v in air for integrated sample analyses and 500 ppm_v in air for instantaneous monitoring to comply with the requirements.

All analyzers were calibrated prior to use with required response time and precision related instrument checks. Calibration records include the following: One time response time test record; One time response factor determination for methane; Calibration Precision test records (test to be performed every 3 months); and Daily Instrument Calibration and Background test records for each gas meter that was used during the quarterly monitoring event. The calibration log records are included in Attachment E.

All monitoring was completed in accordance with the applicable regulatory requirements or approved alternatives. If you have any questions regarding this report, please do not hesitate to contact me at rphadnis@wm.com.

Thank you,
Waste Management

Rajan Phadnis
Environmental Protection Specialist

Attachment A – Instantaneous Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- SEM Map

Attachment B – Integrated Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- SEM Map

Attachment C – Component Leak Monitoring Event Records

- Component Leak Exceedances and Monitoring Logs

Attachment D – Weather Station Data

- Strip Chart Data

Attachment E – Calibration Records

- Instrument and Gas Calibration Records

Attachment A

Instantaneous Surface Emission Monitoring Event Records

Table A.1
Instantaneous Landfill Surface Emissions Monitoring
Initial Monitoring Event Areas of Concern

2024 QUARTER: 3

PERFORMED BY: RES

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
O11	59	7/24/2024	9,000	118
O16	53	7/24/2024	1,500	165

Table A.2
Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs (NSPS/BAAQMD 8-34)

2024 QUARTER: 3

INITIAL MONITORING PERFORMED BY RES

FOLLOW-UP MONITORING PERFORMED BY: KCRDF-Tino Robles

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments-Well locations
Grid Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
O11	7/24/2024	9,000	7/24/2024	Tuned, added soil and water and compacted	7/24/2024	46		8/16/2024	33		118
O16	7/24/2024	1,500	7/24/2024	Tuned, added soil and water and compacted	7/24/2024	17		8/16/2024	51		165

Table A.3

Instantaneous Landfill Surface Emissions Monitoring Exceedance and Monitoring Logs (AB-32)

2024 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: KCRDF-Tino Robles

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			Comments-Well locations
Exceedance Grid ID No.	Monitoring Date	Field Reading	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
O11	7/24/2024	9,000	7/24/2024	46					118
O16	7/24/2024	1,500	7/24/2024	17					165

Table A.4
Instantaneous Landfill Surface Emissions Monitoring
Areas of Concern Greater than 200 ppmv

2024 QUARTER: 3
INITIAL MONITORING PERFORMED BY RES
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			**Re-mon Event**		**Comments**
Exceedance Grid ID No.	Monitoring Date	Field Reading	Monitoring Date	Reading ppm	
None					

Instantaneous Landfill Surface Emissions Monitoring Exceedance and Monitoring Logs (NSPS/BAAQMD 8-34)

2024 QUARTER: Q3
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: Tino Robles
LANDFILL NAME: Kirby Canyon

Wind Direction: S
Wind Speed: 11

Wind Direction: NW
Wind Speed: 3

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	WELL
O11	7/24/2024	9,000	7/24/2024	Becs increase, added water, dirt & compact	7/24/2024	46		8/16/2024	33		118
O16	7/24/2024	1,500	7/24/2024	Becs increase, added water, dirt & compact	7/24/2024	17		8/16/2024	51		165

Orange Flag Landfill Surface Emissions Monitoring
Exceedances and Monitoring Log

Site: KIRBY

Quarter / Year: 3RD 2024
Technician: LEISHWADE
Instrument: TVA 1000
Calibration Standard: 500 ppm

Page of Pages

Initial Monitoring Event				First Re-Monitoring Event - 10 Days			Second Re-Monitoring Event - 10 Days			30-Day Follow-up Monitoring			Comments
Flag Number	Grid Number	Field Reading (ppm)	Date Monitored	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	
O- 11	59	9,000	7-24-24										well 118
O- 16	53	1,500	↓										well 165
O-													
O-													
O-													
O-													
O-													
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KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leigh Ware
Jerry Mercer
Eddie DeLine
Anthony Corrales
Marcus Abrahem

Cal. Gas Exp. Date: 11-10-24

Date: 7-24-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 60 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	0710	0725	150	1	2	10	
37	JM	0710	0725	126	1	2	10	
38	ED	0710	0725	92	1	2	10	
41	AC	0710	0725	54	1	2	10	
42	MA	0710	0725	78	1	2	10	
43	LW	0725	0740	121	1	2	16	
44	JM	0725	0740	45	1	2	16	
47	ED	0725	0740	51	1	2	16	
48	AC	0725	0740	178	1	2	16	
49	MA	0725	0740	122	1	2	16	
52	LW	0740	0755	85	2	2	16	
53	JM	0740	0755	1,500	2	2	16	Well 165
54	ED	0740	0755	95	2	2	16	
55	AC	0740	0755	61	2	2	16	
57	MA	0740	0755	22	2	2	16	
58	LW	0755	0810	84	1	2	16	
59	JM	0755	0810	9,000	1	2	16	Well 118
60	ED	0755	0810	117	1	2	16	
61	AC	0755	0810	40	1	2	16	
64	MA	0755	0810	18	1	2	16	
65	LW	0810	0825	52	1	3	16	
66	JM	0810	0825	113	1	3	16	
67	ED	0810	0825	154	1	3	16	
68	AC	0810	0825	39	1	3	16	
70	MA	0810	0825	22	1	3	16	
71	LW	0825	0840	54	3	4	6	
72	JM	0825	0840	81	3	4	6	
73	ED	0825	0840	65	3	4	6	
74	AC	0825	0840	92	3	4	6	
75	MA	0825	0840	40	3	4	6	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Lewis Ward | Anthony Canales |
Jenny Munoz | Mericia Abrego |
Endia Dukins | | Cal. Gas Exp. Date: 11-10-24

Date: 7-24-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 70 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
79	LW	0840	0855	15	1	5	4	
80	JM	0840	0855	64	1	5	4	
81	ED	0840	0855	81	1	5	4	
82	AC	0840	0855	70	1	5	4	
83	MA	0840	0855	45	1	5	4	
85	LW	0855	0910	27	3	5	5	
86	JM	0855	0910	39	3	5	5	
87	ED	0855	0910	70	3	5	5	
88	AC	0855	0910	61	3	5	5	
89	MA	0855	0910	30	3	5	5	
90	LW	0910	0925	26	3	5	5	
93	JM	0910	0925	21	3	5	5	
94	ED	0910	0925	55	3	5	5	
96	AC	0910	0925	68	3	5	5	
97	MA	0910	0925	31	3	5	5	
100	LW	0925	0940	45	2	4	6	
101	JM	0925	0940	62	2	4	6	
104	ED	0925	0940	34	2	4	6	
105	AC	0925	0940	29	2	4	6	
109	MA	0925	0940	114	2	4	6	
112	LW	0940	0955	72	1	3	6	
116	JM	0940	0955	56	1	3	6	
119	ED	0940	0955	41	1	3	6	
120	AC	0940	0955	22	1	3	6	
124	MA	0940	0955	68	1	3	6	
127	LW	0955	1010	45	2	3	6	
128	JM	0955	1010	25	2	3	6	
132	ED	0955	1010	39	2	3	6	
133	AC	0955	1010	47	2	3	6	
134	MA	0955	1010	26	2	3	6	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leishwant — Anthony Canelas
Jerry Alnoz — Markus Abregon
Eddie Delins

Cal. Gas Exp. Date: 11-10-24

Date: 7-24-24 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 75 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
135	LW	1010	1825	38	1	2	8	
136	JA	1010	1025	21	1	2	8	
137	ED	1010	1025	54	1	2	8	
138	AC	1010	1025	37	1	2	8	
139	MA	1010	1025	78	1	2	8	
140	LW	1025	1040	39	3	4	8	
141	JM	1025	1040	26	3	4	8	
142	ED	1025	1040	30	3	4	8	
143	AC	1025	1040	49	3	4	8	
144	MA	1025	1040	22	3	4	8	
145	LW	1040	1055	64	1	2	8	
146	JM	1040	1055	75	1	2	8	
147	ED	1040	1055	39	1	2	8	
148	AC	1040	1055	60	1	2	8	
149	MA	1040	1055	35	1	2	8	
150	LW	1055	1110	22	1	2	8	
76	JM	1055	1110	89	1	2	8	
77	ED	1055	1110	65	1	2	8	
84	AC	1055	1110	152	1	2	8	
91	MA	1055	1110	88	1	2	8	
92	LW	1110	1125	121	2	4	8	
98	JM	1110	1125	75	2	4	8	
99	ED	1110	1125	140	2	4	8	
106	AC	1110	1125	92	2	4	8	
107	MA	1110	1125	115	2	4	8	
113	LW	1125	1140	60	4	5	8	
121	JM	1125	1140	72	4	5	8	
129	AC	1125	1140	45	4	5	8	

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leighnor

Cal. Gas Exp. Date: ______

Date: 7-24-24 Instrument Used: ______ Grid Spacing: ______

Temperature: ______ Precip: ______ Upwind BG: ______ Downwind BG: ______

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
95								Active trash
102								
103								
110								
111								
117								
118								
125								
126								
1								no waste in place
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leis/Wade ____ ____

____ ____ ____

____ ____ Cal. Gas Exp. Date: ____

Date: 7-24-24 Instrument Used: ____ Grid Spacing: ____

Temperature: ____ Precip: ____ Upwind BG: ____ Downwind BG: ____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								
108								
114								
115								
122								
123								

Attach Calibration Sheet
Attach site map showing grid ID

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KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Luis/Wade

Cal. Gas Exp. Date:

Date: 7-24-24 Instrument Used: Grid Spacing:

Temperature: Precip: Upwind BG: Downwind BG:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
130								↓
131								

Attach Calibration Sheet
Attach site map showing grid ID

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KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2024
Quarter: 3RD

IME Date	Time	IME Location ID	IME Concentration (ppm)
7-24-24	0630	KCLC0108	35
	0610	KCLC0109	71
	0641	KCLC0110	40
	0604	KCLC0111	70
	0627	KCLC0112	52
	0638	KCLC0139	68
	0650	KCLC0140	27
	0600	KCLC0141	59
	0655	KCLC0142	44
	0633	KCLC0143	26
	0620	KCLC0145	38
	0645	KCLC0147	34
	0610	KCLC0149	27
	0637	KCLC0151	108
	0615	KCLC0152	35
	0620	KCLC0153	102
	0640	KCLC0154	145
	0605	KCLC0155	92
	0635	KCLC0156	38
	0627	KCLC0157	70
	0618	KCLC0158	56
	0701	KCLC0159	18
	0640	KCLC0160	25
	0609	KCLC0161	31
	0641	KCYN0014	40
	0641	KCYN0027	30
	0613	KCYN0048	29
	0624	KCYN0051	77
	0621	KCYN0054	22
	0651	KCYN0056	18
	0617	KCYN0057	54
	0640	KCYN0058	61
	0647	KCYN0062	29
	0620	KCYN0063	35
	0602	KCYN0065	24
	0637	KCYN0066	58
	0651	KCYN0070	31
	0650	KCYN0071	20
	0614	KCYN0072	47
	0635	KCYN0074	32
	0643	KCYN0075	51
	0618	KCYN0076	76
	0620	KCYN0078	49
	0600	KCYN0082	32

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

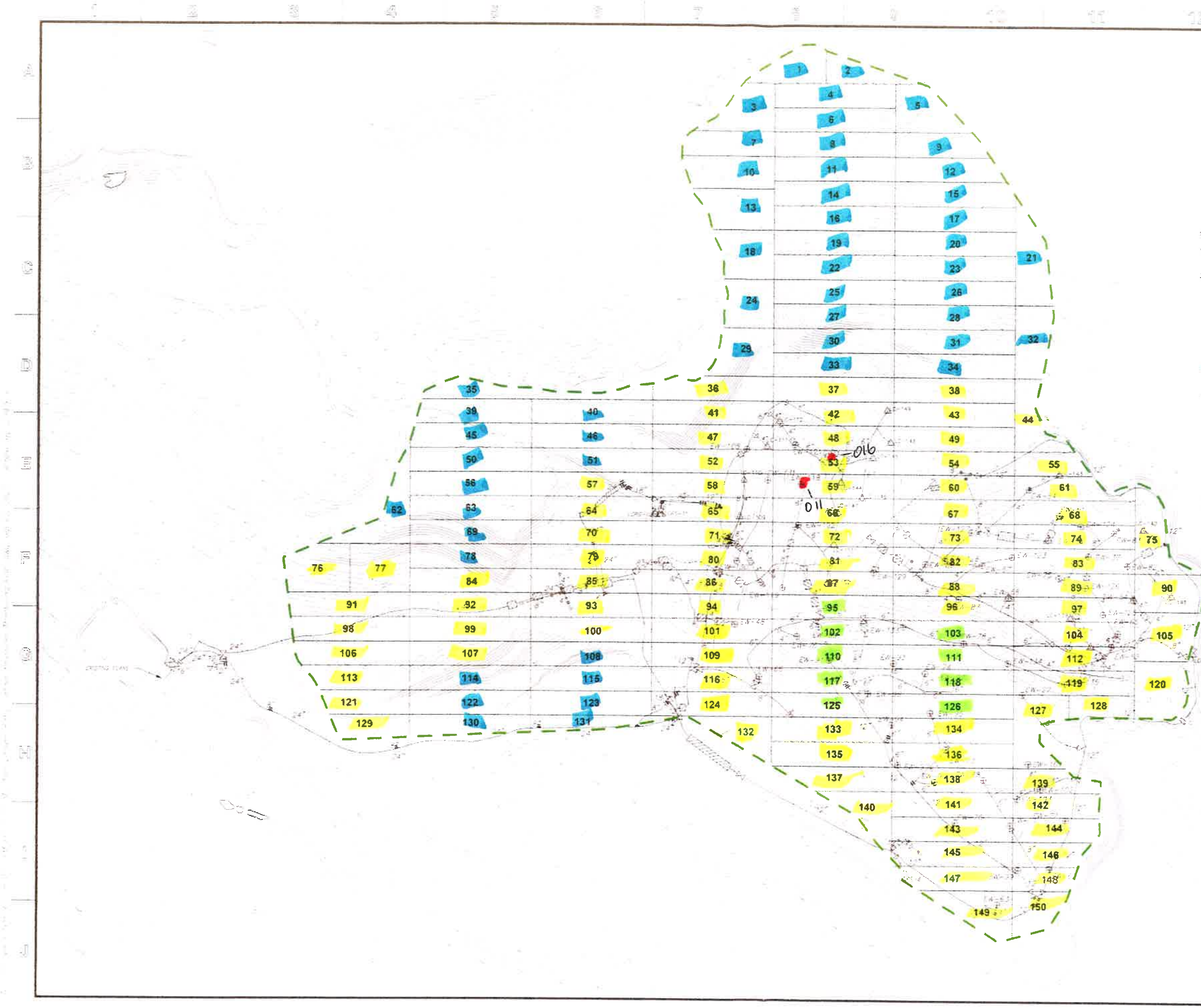
Year: 2024
Quarter: 3RD

IME Date	Time	IME Location ID	IME Concentration (ppm)
7-24-24	0604	KCYN0084	41
	0617	KCYN0086	30
	0605	KCYN0087	26
	0620	KCYN0088	51
	0611	KCYN0089	25
	0625	KCYN0090	34
	0615	KCYN0091	25
	0641	KCYN0092	57
	0624	KCYN0093	40
	0610	KCYN0094	32
	0626	KCYN0095	68
	0630	KCYN0097	40
	0649	KCYN0098	32
	0615	KCYN0099	21
	0654	KCYN0101	35
	0624	KCYN0102	27
	0637	KCYN0103	58
	0621	KCYN0105	40
	0628	KCYN0118	9,000
	0650	KCYN0119	71
	0622	KCYN0121	40
	0649	KCYN0122	28
	0605	KCYN0123	55
	0631	KCYN0124	37
	0620	KCYN0125	40
	0630	KCYN0126	22
	0651	KCYN0127	32
	0611	KCYN0128	29
	0635	KCYN0129	44
	0652	KCYN0130	62
	0637	KCYN0131	58
	0617	KCYN0133	31
	0625	KCYN0134	81
	0620	KCYN0135	47
	0615	KCYN0162	52
	0645	KCYN0163	110
	0652	KCYN0164	85

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2024
Quarter: 3rD

IME Date	Time	IME Location ID	IME Concentration (ppm)
7-24-24	0647	KCYN0165	1500
	0630	KCYN0166	106
	0628	KCYN0167	82
	0644	KCYN0168	54
	0650	KCYN0169	77
	0635	KCYN0170	45
	0630	KCYN0171	115
	0620	KCYN0172	108
	0641	KCYNLR04	92
	0645	KCYNLR08	57
	0650	KCYNLR11	62
	0639	KCYNLR12	49



NOTES

1. TOPOGRAPHIC DATA BASED ON AERIAL MAPPING PREPARED BY MILLER CREEK ASSOCIATES DATED MARCH 26, 2021
2. LOCATIONS DEPICTED FOR THE EXISTING GCCS COMPONENTS PROVIDED TO SCS BY WASTE MANAGEMENT, VARIOUS DATES

LEGEND

— — —	LIMIT WASTE BOUNDARY
	ABOVE GRADE HDPE SDR 17 LFG HEADER LATERAL
	BELOW GRADE HDPE SDR 17 LFG HEADER LATERAL
	LFG EXTRACTION WELL
	LFG VALVE
	LFG REDUCER
	ROAD BENCH CROSSING
52	SEM GRID BLOCK

Instantaneous
7-24-24

- 🟨 Grids monitored
- 🟩 Active-trash
- 🟦 No waste in place
- 🟥 500ppm

PRELIMINARY PLAN
FOR REVIEW AND PLANNING PURPOSES ONLY

SHEET TITLE
SEM GRID AND PENETRATION MAP

PROJECT TITLE
SURFACE EMISSIONS
MONITORING PLANS
KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
MORGAN HILL, CALIFORNIA

CLIENT
WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS

ATV/RR
N/SALT LAKE

DATE
09.03.2021

SCALE
AS SHOWN

NOTES

1. TOPOGRAPHIC DATA BASED ON AERIAL MAPPING PREPARED BY MILLER CREEK ASSOCIATES DATED MARCH 26, 2021
2. LOCATIONS DEPICTED FOR THE EXISTING GCCS COMPONENTS PROVIDED TO SCS BY WASTE MANAGEMENT, VARIOUS DATES

LEGEND

- LIMIT WASTE BOUNDARY
- ABOVE GRADE HDPE SDR 17 LFG HEADER LATERAL
- BELOW GRADE HDPE SDR 17 LFG HEADER LATERAL
- LFG EXTRACTION WELL
- LFG VALVE
- LFG REDUCER
- ROAD BENCH CROSSING
- SEM GRID BLOCK

3RD QTR 2024
NSPS

🟩 perimeter sweep

● upwind

● downwind

PRELIMINARY PLAN
FOR REVIEW AND PLANNING PURPOSES ONLY

SHEET TITLE
SEM GRID AND PENETRATION MAP

PROJECT TITLE
SURFACE EMISSIONS
MONITORING PLANS
KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
MORGAN HILL, CALIFORNIA

CLIENT
WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS

DATE
09-02-2021

SCALE
AS SHOWN

3

Attachment B

Integrated Surface Emission Monitoring Event Records

Table B.1
Integrated Landfill Surface Monitoring
Exceedances and Monitoring Log

2024 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: N/A

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			**1st Re-mon Event - 10 Days**			**Comments**
Exceedance Grid ID No.	Monitoring Date	Field Reading	Monitoring Date	No Exced. <25 ppm	No Exced. >25 ppm	
None						

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leigh Wann | Anthony Canales
Jerry Mann | Markus Abrahan
Eddie DeLira

Cal. Gas Exp. Date: 11-10-24

Date: 7-23-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 90 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	1250	1315	20.77	1	2	8	
37	JM	1250	1315	18.54	1	2	8	
38	ED	1250	1315	16.20	1	2	8	
41	AC	1250	1315	14.58	1	2	8	
42	MA	1250	1315	22.31	1	2	8	
43	LW	1315	1340	18.60	1	1	8	
44	JM	1315	1340	12.21	1	1	8	
47	ED	1315	1340	15.71	1	1	8	
48	AC	1315	1340	18.19	1	1	8	
49	MA	1315	1340	16.32	1	1	8	
52	LW	1340	1405	18.07	1	1	8	
53	JM	1340	1405	21.68	1	1	8	
54	ED	1340	1405	19.51	1	1	8	
55	AC	1340	1405	11.72	1	1	8	
57	MA	1340	1405	6.24	1	1	6	
58	LW	1405	1430	9.21	2	2	8	
59	JM	1405	1430	20.24	2	2	8	
60	ED	1405	1430	18.79	2	2	8	
61	AC	1405	1430	9.30	2	2	8	
64	MA	1405	1430	6.28	2	2	6	
65	LW	1430	1455	9.81	1	2	10	
66	JM	1430	1455	14.32	1	2	10	
67	ED	1430	1455	20.68	1	2	10	
68	AC	1430	1455	10.51	1	2	10	
70	MA	1430	1455	6.38	1	2	10	
71	LW	1455	1520	9.91	2	2	10	
72	JM	1455	1520	11.65	2	2	10	
73	ED	1455	1520	9.03	2	2	10	
74	AC	1455	1520	7.28	2	2	10	
75	MA	1455	1520	7.15	2	2	10	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 2

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leighwade / Anthony Cancilla /
Johnny Munoz / Merkan Abdelfer /
Endie DeLing /

Cal. Gas Exp. Date: 11-10-24

Date: 7-23-24 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 90 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
79	LW	1520	1545	6.03	1	1	10	
80	JM	1520	1545	9.54	1	1	10	
81	ED	1520	1545	11.17	1	1	10	
82	AC	1520	1545	12.24	1	1	10	
83	MA	1520	1545	9.11	1	1	10	
85	LW	1545	1610	7.16	0	1	10	
86	JM	1545	1610	9.30	0	1	10	
87	ED	1545	1610	11.55	0	1	10	
88	AC	1545	1610	9.67	0	1	10	
89	MA	1545	1610	8.13	0	1	10	
90	LW	1610	1635	6.45	1	2	8	
93	JM	1610	1635	7.15	1	2	6	
94	ED	1610	1635	12.57	1	2	8	
96	AC	1610	1635	7.52	1	2	8	
97	MA	1610	1635	8.14	1	2	6	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: L Mskwnnr

Cal. Gas Exp. Date:

Date: 7-23-24 Instrument Used: Grid Spacing:

Temperature: Precip: Upwind BG: Downwind BG:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
95								Active Mass
102								
103								
110								
111								
117								
118								
125								
126								
1								no waste in place
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGHWARDT ____ ____

Cal. Gas Exp. Date: ____

Date: 7-23-24 Instrument Used: ____ Grid Spacing: ____

Temperature: ____ Precip: ____ Upwind BG: ____ Downwind BG: ____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								
108								
114								
115								
122								
123								

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIShKADR ____________ ____________

____________ ____________ ____________

____________ ____________ Cal. Gas Exp. Date: ______

Date: 7-23-24 Instrument Used: ____________ Grid Spacing: ____________

Temperature: ________ Precip: ________ Upwind BG: ________ Downwind BG: ________

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
130								✓
131								

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Lois Lunar; Anthony Caraleo; Jerry Minor; Merkat Abrehan; Eddie De Luna

Cal. Gas Exp. Date: 11-10-24

Date: 7-24-24 Instrument Used: IVA 1000 Grid Spacing: 25'

Temperature: 80 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
100	LW	1150	1215	6.70	3	4	8	
101	JM	1150	1215	9.31	3	4	8	
104	ED	1150	1215	7.22	3	4	8	
105	AC	1150	1215	6.81	3	4	8	
109	MA	1150	1215	9.57	3	4	8	
112	LW	1215	1240	8.61	5	7	8	
116	JM	1215	1240	10.45	5	7	8	
119	ED	1215	1240	6.84	5	7	8	
120	AC	1215	1240	5.54	5	7	8	
124	MA	1215	1240	6.97	5	7	8	
127	LW	1240	1305	5.40	5	7	8	
128	JM	1240	1305	5.81	5	7	8	
132	ED	1240	1305	6.35	5	7	8	
133	AC	1240	1305	7.27	5	7	8	
134	MA	1240	1305	7.15	5	7	8	
135	LW	1305	1330	8.60	5	7	8	
136	JM	1305	1330	7.32	5	7	8	
137	ED	1305	1330	6.59	5	7	8	
138	AC	1305	1330	6.14	5	7	8	
139	MA	1305	1330	5.37	5	7	8	
140	LW	1330	1355	7.06	5	7	8	
141	JM	1330	1355	6.94	5	7	8	
142	ED	1330	1355	8.50	5	7	8	
143	AC	1330	1355	7.14	5	7	8	
144	MA	1330	1355	6.24	5	7	8	
145	LW	1355	1420	7.18	5	6	8	
146	JM	1355	1420	6.91	5	6	8	
147	ED	1355	1420	5.86	5	6	8	
148	AC	1355	1420	6.30	5	6	8	
145	MA	1355	1420	6.99	5	6	8	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 2

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Lewhwood | Anthony Canales
Jerry Munoz | Mericus Abregon
Eddie De Luna

Cal. Gas Exp. Date: 11-10-24

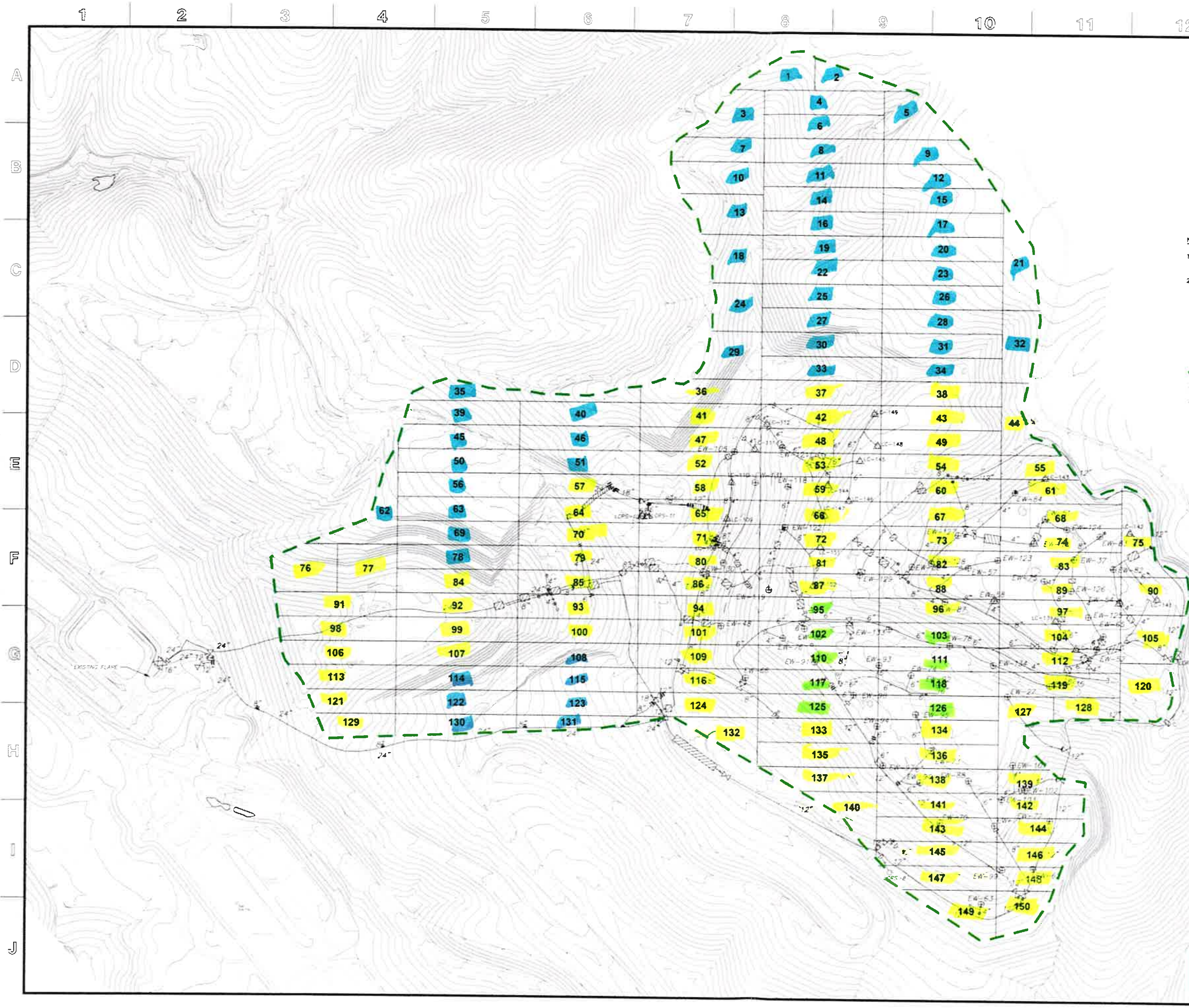
Date: 7-24-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 80 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
150	LW	1420	1445	5.47	3	4	8	
76	JM	1420	1445	11.74	3	4	8	
77	ED	1420	1445	13.65	3	4	8	
84	AC	1420	1445	19.70	3	4	8	
91	MA	1420	1445	22.36	3	4	8	
92	LW	1445	1510	20.11	3	4	8	
98	JM	1445	1510	18.74	3	4	8	
99	ED	1445	1510	23.56	3	4	8	
106	AC	1445	1510	18.94	3	4	8	
107	MA	1445	1510	20.39	3	4	8	
113	LW	1510	1535	16.34	4	5	9	
121	JM	1510	1535	11.77	4	5	9	
129	ED	1510	1535	14.23	4	5	9	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2



N

200 100 0 200 400 600

D SIZE: 1"=200' (22"X34")

B SIZE: 1"=400' (11"X17")

NOTES

1 TOPOGRAPHIC DATA BASED ON AERIAL MAPPING PREPARED BY MILLER CREEK ASSOCIATES DATED MARCH 26, 2021

2 LOCATIONS DEPICTED FOR THE EXISTING GCCS COMPONENTS PROVIDED TO SCS BY WASTE MANAGEMENT, VARIOUS DATES

LEGEND

— — —	LIMIT WASTE BOUNDARY
———	ABOVE GRADE HDPE SDR 17 LFG HEADER LATERAL
- - - -	BELOW GRADE HDPE SDR 17 LFG HEADER LATERAL
EW-1 ⊕	LFG EXTRACTION WELL
⋈	LFG VALVE
	LFG REDUCER
▨	ROAD/BENCH CROSSING
52	SEM GRID BLOCK

Integrated
7-23-24
7-24-24

🟨	Grids monitored
🟩	Active tests
●	No waste in place

PRELIMINARY PLAN
FOR REVIEW AND PLANNING PURPOSES ONLY

NO.	REVISION	DATE
△		
△		
△		
△		
△		

SHEET TITLE
SEM GRID AND PENETRATION MAP

PROJECT TITLE:
SURFACE EMISSIONS
MONITORING PLANS
KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
MORGAN HILL, CALIFORNIA

CLIENT:
WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, STE 100
LONG BEACH, CA 90806
(562) 426-9544

PROJ. NO. 01221102.00
DSN. BY ATV/RR
DWN. BY ATV/RR
CHK. BY DF
CADD FILE N:\SALT LAKE
APP. BY

DATE 09-02-2021

SCALE: AS SHOWN

3

Attachment C

Component Leak Monitoring Event Records

Table C.1
AB-32 Component Leak Monitoring
Summary of Component Leaks Greater than 500 ppmv

2024 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Location	Initial Monitoring			Corrective Action		10-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	07/24/24	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

Table C.2
BAAQMD Component Leak Monitoring
Summary of Component Leaks Greater than 1,000 ppmv

2024 QUARTER: 3
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		7-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	07/24/24	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

LANDFILL NAME: KIRBY

QUARTERLY LFG COMPONENT LEAK MONITORING

INSTRUMENT FID
MAKE: Thermo Environr
MODEL: TVA 1000
S/N: 1036346773

DATE OF SAMPLING: 7-24-24
TECHNICIAN: LEIGH WADE

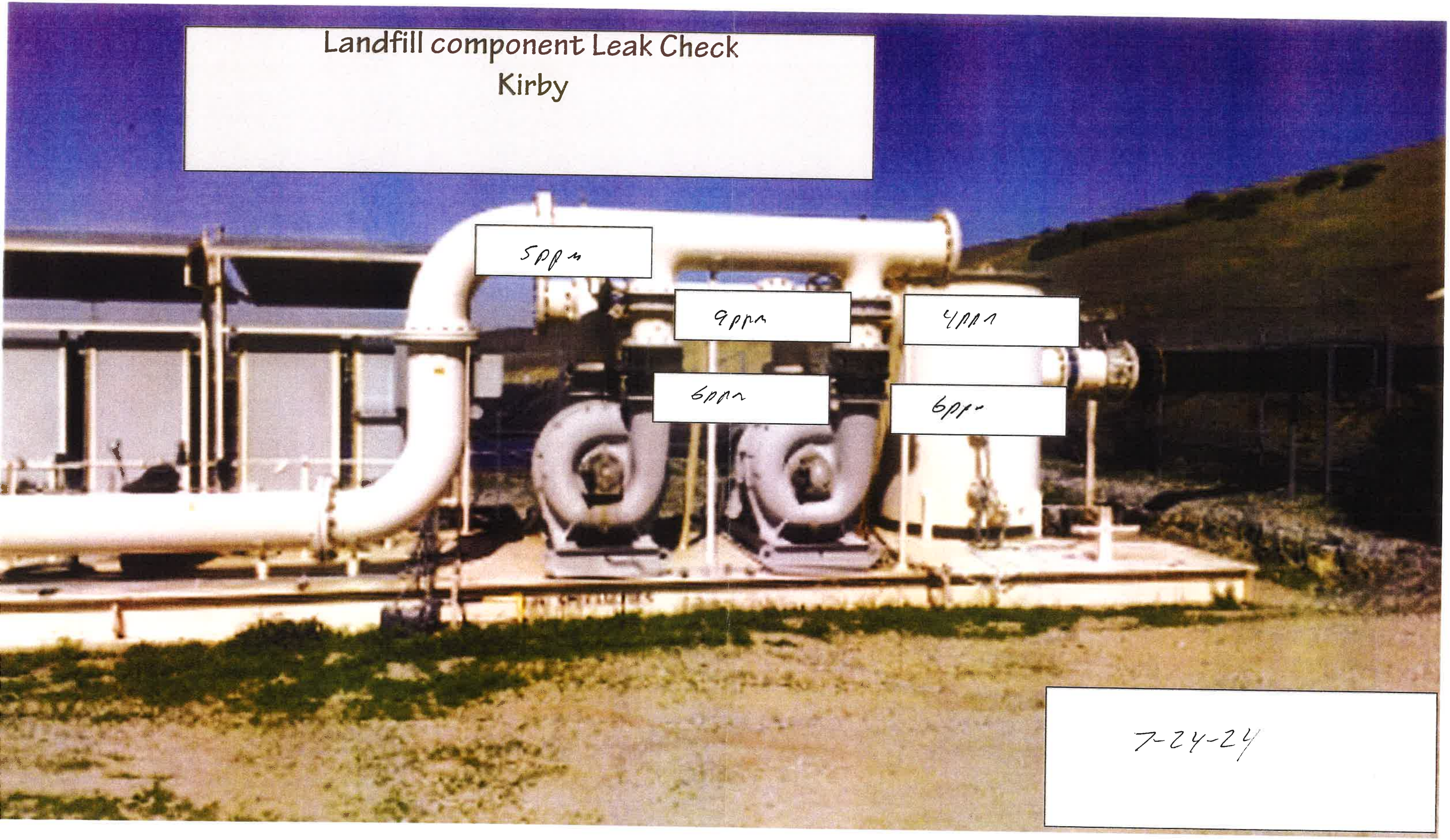
LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NO EXCEEDANCES							

In the event that an exceedance is detected, please intiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.

NOTE: Leaks over 500 ppmv methane are exceedances at any component containing landfill gas, pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B).

NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.

Landfill component Leak Check
Kirby



5ppm

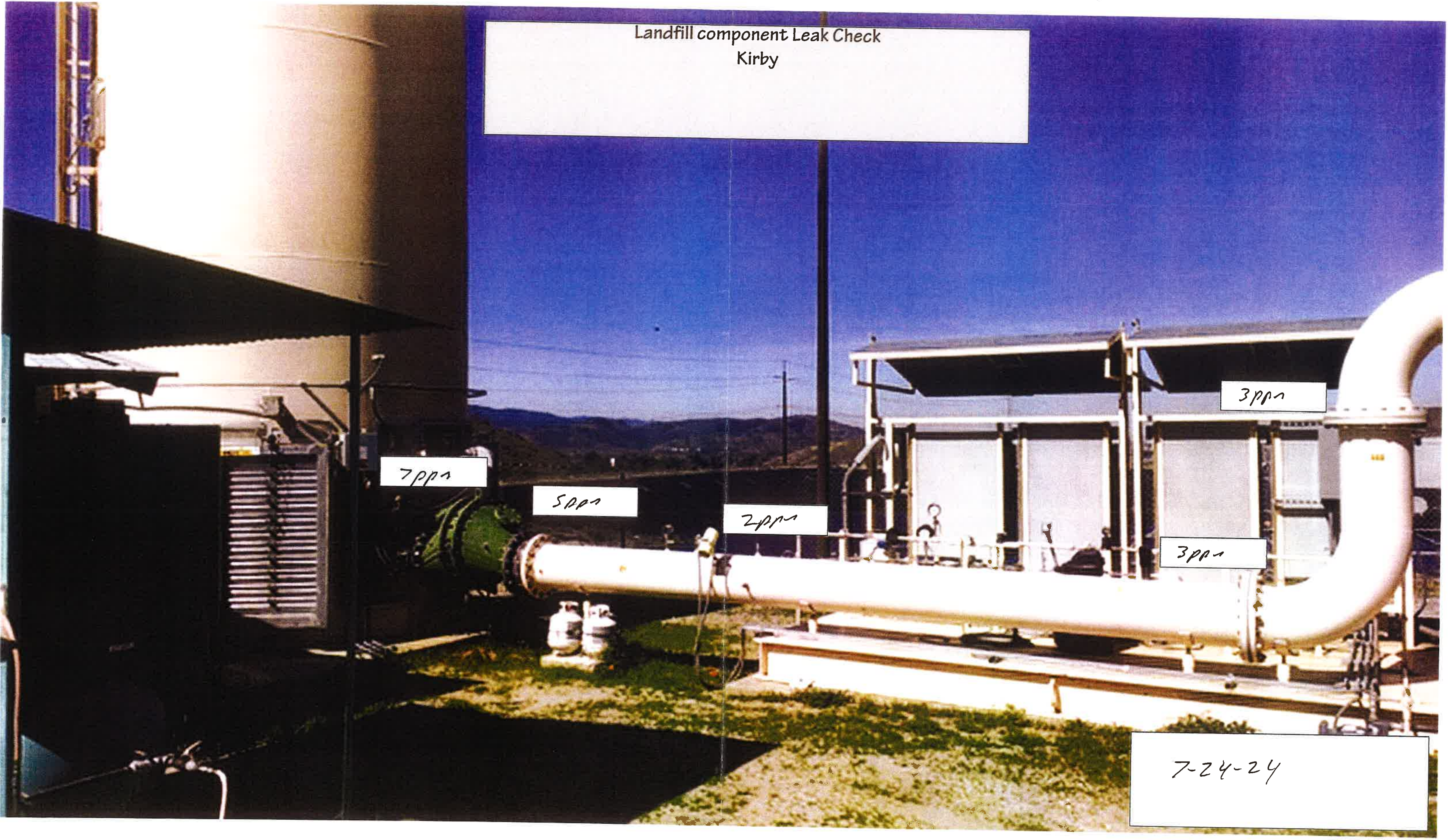
9ppm

4ppm

6ppm

6ppm

7-24-24



Landfill component Leak Check
Kirby

7ppm

5ppm

2ppm

3ppm

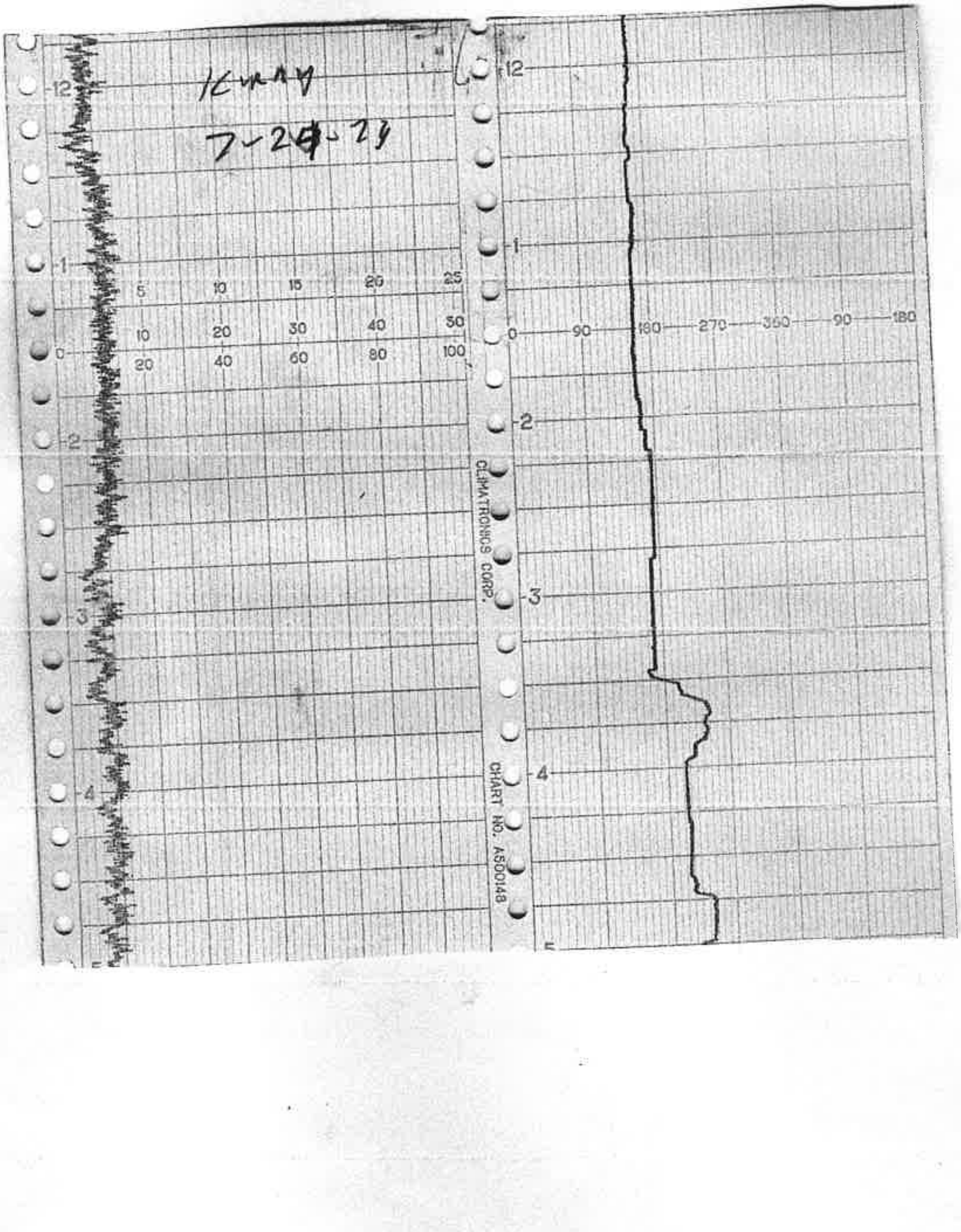
3ppm

7-24-24

Attachment D

Weather Station Data

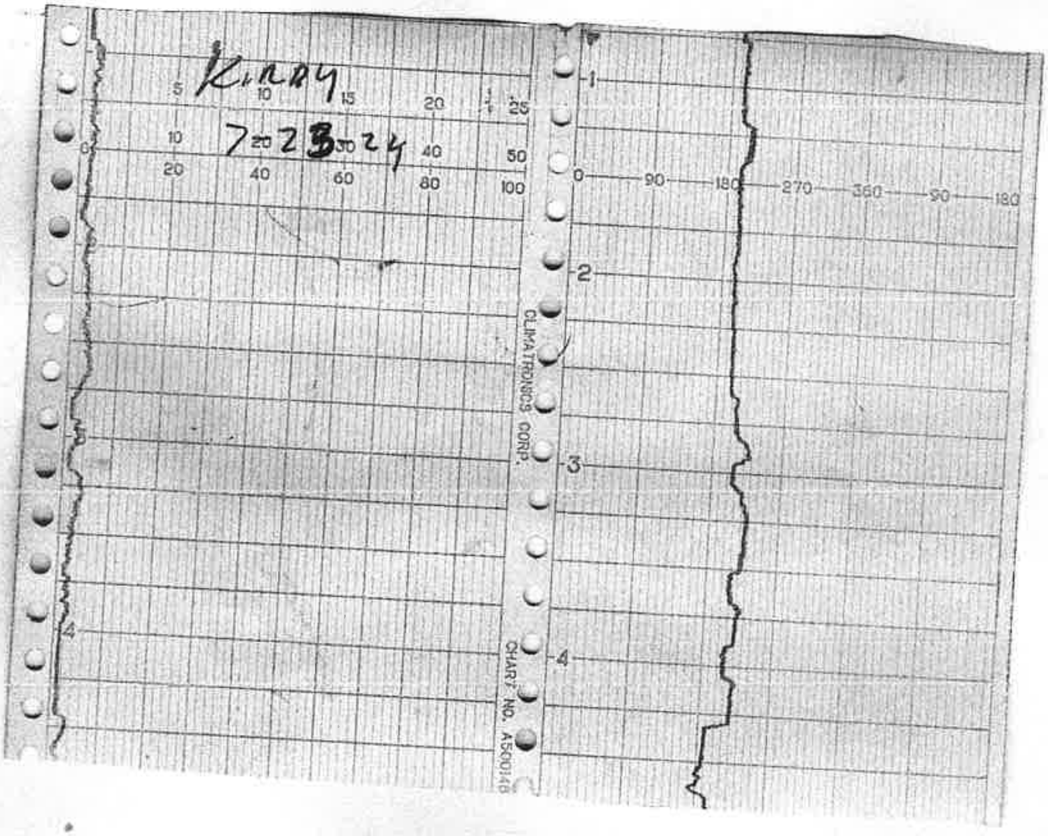
WIND SPEED & DIRECTION CHART ROLL



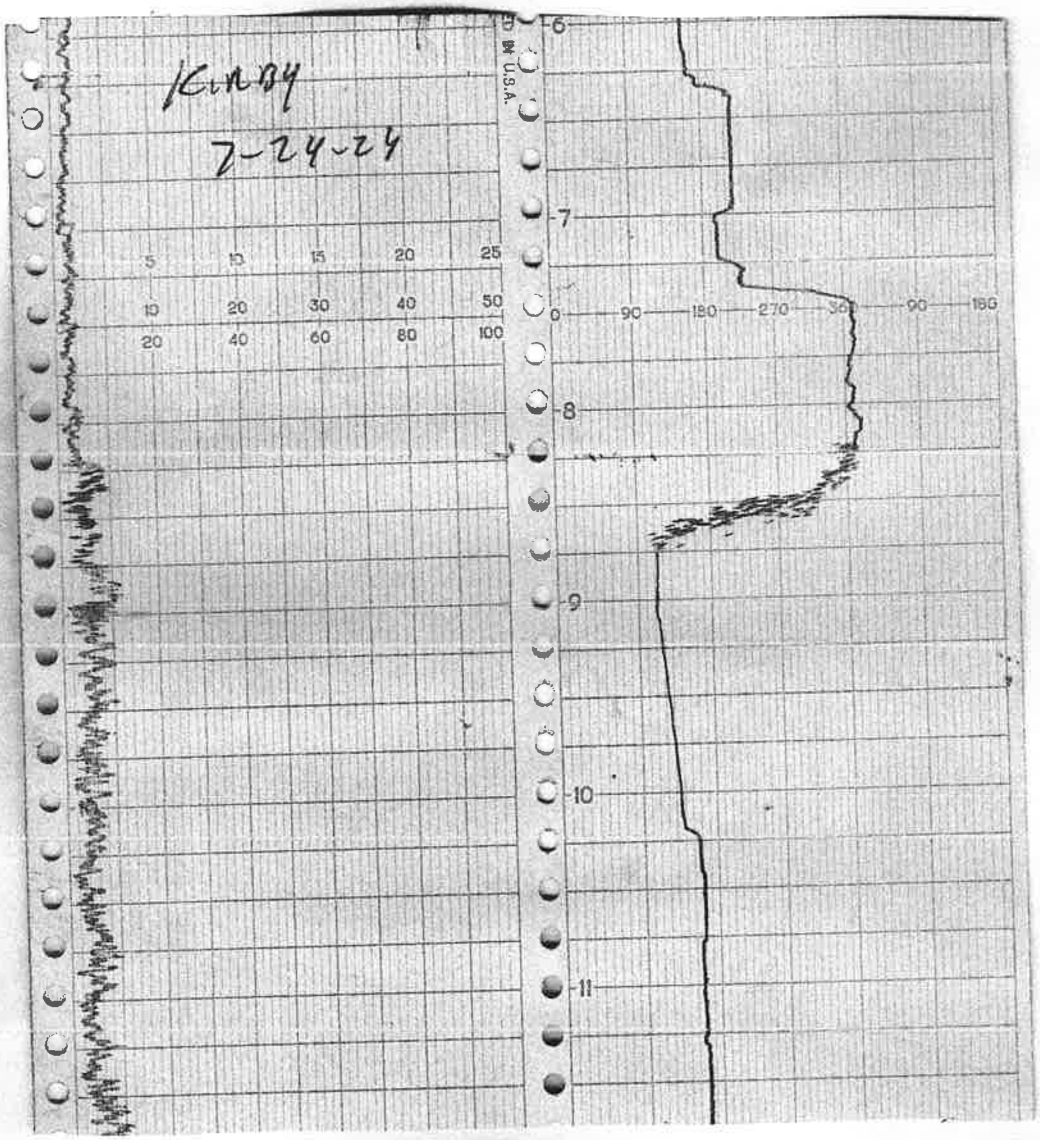
Kuray

7-24-23

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL


Kirby
7-24-24

16-POINT WIND DIRECTION INDEX

NO	DIRECTION	DEGREES		
		FROM	CENTER	TO
16	NORTH (N)	348.8	360.0	011.3
1	NORTH-NORTHEAST (NNE)	011.3	022.5	033.8
2	NORTHEAST (NE)	033.8	045.0	056.3
3	EAST-NORTHEAST (ENE)	056.3	067.5	078.8
4	EAST (E)	078.8	090.0	101.3
5	EAST-SOUTHEAST (ESE)	101.3	112.5	123.8
6	SOUTHEAST (SE)	123.8	135.0	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	157.5	168.8
8	SOUTH (S)	168.8	180.0	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	202.5	213.8
10	SOUTHWEST (SW)	213.8	225.0	236.3
11	WEST-SOUTHWEST (WSW)	236.3	247.5	258.8
12	WEST (W)	258.8	270.0	281.3
13	WEST-NORTHWEST (WNW)	281.3	292.5	303.8
14	NORTHWEST (NW)	303.8	315.0	326.3
15	NORTH-NORTHWEST (NNW)	326.3	337.5	348.8

Attachment E

Calibration Records

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Kirby INSTRUMENT MAKE Thermo

MODEL: TVA 1000 EQUIPMENT #: 10 SERIAL # 1036346773

MONITORING DATE 7-24-24 TIME 0600

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	506 ppm	456 ppm	5
#2	500 ppm	450 ppm	5
#3	500 ppm	450 ppm	5
Calculate Response Time (1+2+3) / 3			5 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.13 ppm	506 ppm	6
#2	0.08 ppm	500 ppm	0
#3	0.04 ppm	505 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		0.40 #DIV/0! Must be less than 10%

Performed By: Leishwarr Date/Time: 7-24-24 - 0600

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KiRBy INSTRUMENT MAKE: tHermo
MODEL: tVA1000 EQUIPMENT #: 11 SERIAL #: 1636346772
MONITORING DATE: 7-24-24 TIME: 0600

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	492 ppm	442 ppm	6
#2	501 ppm	451 ppm	6
#3	500 ppm	450 ppm	6
Calculate Response Time $\frac{(1+2+3)}{3}$			6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.14 ppm	492 ppm	8
#2	0.08 ppm	501 ppm	1
#3	0.03 ppm	500 ppm	0
Calculate Precision $\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$			0.60 #DIV/0! Must be less than 10%

Performed By: Jerry Munoz Date/Time: 7-24-24-0600

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Kirby INSTRUMENT MAKE: thermo

MODEL: TVA2020 EQUIPMENT #: 12 SERIAL #: 1036246741

MONITORING DATE: 7-24-24 TIME: 0600

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** $\frac{\text{(Upwind + Downwind)}}{2}$
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	489 ppm	439 ppm	7
#2	500 ppm	450 ppm	7
#3	500 ppm	450 ppm	7
Calculate Response Time $\frac{(1+2+3)}{3}$			7 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.09 ppm	485 ppm	11
#2	0.07 ppm	500 ppm	0
#3	0.04 ppm	500 ppm	0
Calculate Precision $\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$			0.73 #DIV/0! Must be less than 10%

Performed By: Eddie Delira Date/Time: 7-24-24-0600

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Kirby INSTRUMENT MAKE tHerm

MODEL tvA100 EQUIPMENT #: 13 SERIAL # 1102746775

MONITORING DATE: 7-24-24 TIME 0600

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	498 ppm	448 ppm	5
#2	502 ppm	452 ppm	5
#3	500 ppm	450 ppm	5
Calculate Response Time (1+2+3) / 3			5 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.15 ppm	498 ppm	2
#2	0.10 ppm	502 ppm	2
#3	0.06 ppm	500 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		6.26 #DIV/0! Must be less than 10%

Performed By: Anthony canales Date/Time 7-24-24-0600

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Kirby INSTRUMENT MAKE Thermo

MODEL TVA1000 EQUIPMENT # 16 SERIAL # 1112746776

MONITORING DATE 7-24-24 TIME 0600

Calibration Procedure

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	507 ppm	457 ppm	6
#2	499 ppm	449 ppm	6
#3	500 ppm	450 ppm	6
Calculate Response Time	(1+2+3) / 3		6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.12 ppm	507 ppm	7
#2	0.08 ppm	499 ppm	1
#3	0.06 ppm	500 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		0.53 #DIV/0! Must be less than 10%

Performed By Matthew Abraham Date/Time 7-24-24-0600

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE Thermo
MODEL TVA 1000 EQUIPMENT #: 10 SERIAL #: 1036346773
MONITORING DATE: 7-23-24 TIME 1240

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	24 ppm	21.6 ppm	5
#2	25 ppm	22.5 ppm	5
#3	25 ppm	22.5 ppm	5
	Calculate Response Time (1+2+3) / 3		5 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.10 ppm	24 ppm	1
#2	0.07 ppm	25 ppm	0
#3	0.04 ppm	25 ppm	0
Calculate Precision	**[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1**		1.3 #DIV/0! Must be less than 10%

Performed By: Leishmann Date/Time: 7-23-24 1248

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE Thermo

MODEL TVA1000 EQUIPMENT #: 11 SERIAL #: 1036346772

MONITORING DATE: 7-23-24 TIME: 1240

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	23 ppm	20.7 ppm	7
#2	25 ppm	22.5 ppm	7
#3	25 ppm	22.5 ppm	7
Calculate Response Time (1+2+3) / 3			7 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = **25** **ppm**

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.17 ppm	23 ppm	2
#2	0.08 ppm	25 ppm	0
#3	0.05 ppm	25 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1		2.6 #DIV/0! Must be less than 10%

Performed By: Jerry Munoz Date/Time: 7-23-24-1240

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kinney INSTRUMENT MAKE Thermo

MODEL: TVA 1000 EQUIPMENT #: 12 SERIAL #: 1036246741

MONITORING DATE: 7-23-24 TIME 1240

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3 Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	24 ppm	21.6 ppm	5
#2	25 ppm	22.5 ppm	5
#3	25 ppm	22.5 ppm	5
Calculate Response Time $\frac{(1+2+3)}{3}$			5 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.15 ppm	24 ppm	1
#2	0.07 ppm	25 ppm	0
#3	0.04 ppm	25 ppm	0
Calculate Precision $\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$			1.3 #DIV/0! Must be less than 10%

Performed By: EDDIE DE LIRA Date/Time 7-23-24-1240

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: tHerm

MODEL: TVA1000 EQUIPMENT #: 13 SERIAL #: 1102746775

MONITORING DATE: 7-23-24 TIME: 1240

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	24 ppm	21.6 ppm	4
#2	24 ppm	21.6 ppm	4
#3	25 ppm	22.5 ppm	4
	Calculate Response Time	**(1+2+3)** / **3**	4 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.11 ppm	24 ppm	1
#2	0.07 ppm	24 ppm	1
#3	0.04 ppm	25 ppm	0
Calculate Precision	**[STD-B1] + [STD-B2] + [STD-B3]** / **3**	**X 1/25 X 100/1**	2.6 #DIV/0! Must be less than 10%

Performed By: Anthony Cerales Date/Time: 7-23-24-1240

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME Kirm INSTRUMENT MAKE Therm

MODEL: TVA1000 EQUIPMENT #: 16 SERIAL #: 1102746776

MONITORING DATE: 7-23-24 TIME 1240

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	24 ppm	21.6 ppm	6
#2	25 ppm	22.5 ppm	6
#3	25 ppm	22.5 ppm	6
Calculate Response Time (1+2+3) / 3			6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.14 ppm	24 ppm	1
#2	0.09 ppm	25 ppm	0
#3	0.07 ppm	25 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		1.3 #DIV/0! Must be less than 10%

Performed By: Markus Abraham Date/Time: 7-23-24-1240

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 10 SERIAL #: 1036346773

MONITORING DATE: 7-24-24 TIME 1145

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	23 ppm	20.7 ppm	6
#2	25 ppm	22.5 ppm	6
#3	25 ppm	22.5 ppm	6
Calculate Response Time	**(1+2+3) / 3**		6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 **ppm**

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.16 ppm	23 ppm	2
#2	0.11 ppm	25 ppm	0
#3	0.09 ppm	25 ppm	0
Calculate Precision	**[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1**		2.6 #DIV/0! Must be less than 10%

Performed By: Date/Time: 7-24-24 -1145

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME KIRBY INSTRUMENT MAKE THERMO
MODEL TVA 1000 EQUIPMENT #: 11 SERIAL #: 1036346772
MONITORING DATE: 7-24-24 TIME: 1145

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	**Stabilized Reading Using Calibration Gas**	**90% of the Stabilized Reading**	**Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas**
#1	24 ppm	21.6 ppm	5
#2	25 ppm	22.5 ppm	5
#3	25 ppm	22.5 ppm	5
Calculate Response Time $\frac{(1+2+3)}{3}$			5 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 **ppm**

Measurement #	**Meter Reading for Zero Air (A)**	**Meter Reading for Calibration Gas (B)**	**Calculate Precision [STD – (B)]**
#1	0.11 ppm	24 ppm	1
#2	0.07 ppm	25 ppm	0
#3	0.04 ppm	25 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		1.3 #DIV/0! Must be less than 10%

Performed By: JERRY MUNOZ Date/Time: 7-24-24 1145

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KiRBy INSTRUMENT MAKE: tHerm o

MODEL: tvA1000 EQUIPMENT #: 12 SERIAL #: 1036246741

MONITORING DATE: 7-24-24 TIME: 1145

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{\text{(Upwind + Downwind)}}{2}$
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	24 ppm	21.6 ppm	6
#2	24 ppm	21.6 ppm	6
#3	25 ppm	22.5 ppm	6
Calculate Response Time $\frac{(1+2+3)}{3}$			6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.17 ppm	24 ppm	1
#2	0.14 ppm	24 ppm	1
#3	0.10 ppm	25 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		2.8 #DIV/0! Must be less than 10%

Performed By: EDDiE DE LiMA Date/Time: 7-24-24-1145

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME Kirby INSTRUMENT MAKE: Thermo
MODEL: TVA 1000 EQUIPMENT #: 13 SERIAL # 1102746775
MONITORING DATE 7-24-24 TIME 1145

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	24 ppm	21.6 ppm	5
#2	25 ppm	22.5 ppm	5
#3	25 ppm	22.5 ppm	5
Calculate Response Time	(1+2+3) / 3		5 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.09 ppm	24 ppm	1
#2	0.06 ppm	25 ppm	0
#3	0.04 ppm	25 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1		1.3 #DIV/0! Must be less than 10%

Performed By: Anthony Canales Date/Time: 7-24-24-1145

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME Kirby INSTRUMENT MAKE Thermo

MODEL: TVA1000 EQUIPMENT #: 16 SERIAL #: 1102746776

MONITORING DATE: 7-24-24 TIME: 1145

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	**Downwind Background Reading:** (Highest in 30 seconds)	**Background Value:** (Upwind + Downwind) / 2
2.2 ppm	2.8 ppm	25 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	24 ppm	21.6 ppm	7
#2	25 ppm	22.5 ppm	7
#3	25 ppm	22.5 ppm	7
	Calculate Response Time $\frac{(1+2+3)}{3}$		7 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.17 ppm	24 ppm	1
#2	0.14 ppm	25 ppm	0
#3	0.11 ppm	25 ppm	0
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		1.3 #DIV/0! Must be less than 10%

Performed By MARKUS AONGHAN Date/Time 7-24-24-1145

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 7/24/24

Time: 515 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000B S/N: 0928538411

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.

   Stable Reading = 501
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 0 ppm (a)
2. Downwind Reading (highest in 30 seconds): 0 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 0 ppm

Performed by: Robles

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon   Date: 8/16/24

Time: 500 AM ______ PM

Instrument Make: Thermo Scientific   Model: TVA 1000B   S/N: 0928538411

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.

   Stable Reading = 502

3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 0 ppm (a)
2. Downwind Reading (highest in 30 seconds): 0 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 0 ppm

Performed by: ________

CALIBRATION PRECISION TEST RECORD

Date: 6/27/2024

Expiration Date (3 months): 9/27/2024

Time: 6:05 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 503 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 501 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

$$\frac{\{|(496) - (500)| + |(500) - (498)| + |(500) - (496)|\}}{3} \times \frac{1}{500} \times 100$$

1.0 % (must be < than 10%)

Performed by: T. Robles

RESPONSE TIME TEST RECORD

Date: 6/27/24

Expiration Date (3 months): 9/27/24

Time: 6:15 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 502 ppm
90% of the Stabilized Reading: 493 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 490 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 504 ppm
90% of the Stabilized Reading: 495 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = 10$$ seconds (must be less than 30 seconds)

Performed by: T.Robles

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator: Jm M

Date: 7-7-24 Time: 0800

Model # TVA 1000

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST	
Battery test	[✓ Pass] / Fail
Reading following ignition	2.1 ppm
Leak test	[✓ Pass] / Fail / NA
Clean system check (check valve chatter)	[✓ Pass] / Fail / NA
H_2 supply pressure gauge (acceptable range 9.5 - 12)	[✓ Pass] / Fail / NA
Date of last factory calibration	7-7-24
Factory calibration record w/instrument within 3 months	[✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 6
2. 6
3. 5

Average 5.6

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH4 gas.

Comments:

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator:

Date: 7-7-24 Time: 0815

Model # TVA 1000

Serial # #11 1036346774

INSTRUMENT INTEGRITY CHECKLIST	
Battery test	[✓ Pass] / Fail
Reading following ignition	2.4 ppm
Leak test	[✓ Pass] / Fail / NA
Clean system check (check valve chatter)	[✓ Pass] / Fail / NA
H_2 supply pressure gauge (acceptable range 9.5 - 12)	[✓ Pass] / Fail / NA
Date of last factory calibration	7-7-24
Factory calibration record w/instrument within 3 months	[✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 5
2. 5
3. 5

Average 5.0

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH4 gas.

Comments:

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator:

Date: 7-7-24 Time: 0830

Model # TVA 1000

Serial # #12 1036246741

INSTRUMENT INTEGRITY CHECKLIST	
Battery test	[✓ Pass] / Fail
Reading following ignition	2.6 ppm
Leak test	[✓ Pass] / Fail / NA
Clean system check (check valve chatter)	[✓ Pass] / Fail / NA
H_2 supply pressure gauge (acceptable range 9.5 - 12)	[✓ Pass] / Fail / NA
Date of last factory calibration	7-7-24
Factory calibration record w/instrument within 3 months	[✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 6
2. 6
3. 6

Average 6.0

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH4 gas.

Comments:

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator:

Date: 7-7-24 Time: 0845

Model # TVA 1000

Serial # #13 1102746775

INSTRUMENT INTEGRITY CHECKLIST

Battery test [✓ Pass] / Fail

Reading following ignition 2.5 ppm

Leak test [✓ Pass] / Fail / NA

Clean system check (check valve chatter) [✓ Pass] / Fail / NA

H_2 supply pressure gauge (acceptable range 9.5 - 12) [✓ Pass] / Fail / NA

Date of last factory calibration 7-7-24

Factory calibration record w/instrument within 3 months [✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 6
2. 6
3. 6

Average 6.0

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH4 gas.

Comments:

RES
Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site:

Purpose:

Operator:

Date: 7-7-24 Time: 0930

Model # TVA 1000

Serial # #16 1102746776

INSTRUMENT INTEGRITY CHECKLIST

Battery test [✓ Pass] / Fail

Reading following ignition 2.1 ppm

Leak test [✓ Pass] / Fail / NA

Clean system check (check valve chatter) [✓ Pass] / Fail / NA

H_2 supply pressure gauge (acceptable range 9.5 - 12) [✓ Pass] / Fail / NA

Date of last factory calibration 7-7-24

Factory calibration record w/instrument within 3 months [✓ Pass] / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy
500	500	100%

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 5
2. 5
3. 6

Average 5.3

Equal to or less than 30 seconds? [✓ Y] N

Instrument calibrated to CH4 gas.

Comments:

RES
Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 10

SERIAL NUMBER: 1036346773

TECHNICIAN:

DATE: 7-7-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID

METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	499	+/- 125
10000	10000	10,112	+/- 2500
< 1	ZERO GAS	0.54	< 3

PID

ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

RES
Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #11

SERIAL NUMBER: 1036346774

TECHNICIAN:

DATE: 7-7-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID

METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0,53	< 3

PID

ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: NTES Unit #12

SERIAL NUMBER: 1036246741

TECHNICIAN:

DATE: 7-7-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.03	< 3

PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

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Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Cart #13

SERIAL NUMBER: 1102746775

TECHNICIAN: _______ DATE: 7-2-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,003	+/- 2500
< 1	ZERO GAS	0.01	< 3

PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

RES
Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #16

SERIAL NUMBER: 1102746776

TECHNICIAN:

DATE: 7-7-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID

METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.63	< 3

PID

ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.


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CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 75836320
PO Number 04C23328

Lot Number 4-236-82
Norlab Part# J1002
Cylinder Size 103 Liter
Number of Cyl 2

Customer Part# N/A

Date on Manufacture 8/29/2024
Expires 08/2028
Analytical Accuracy Certified

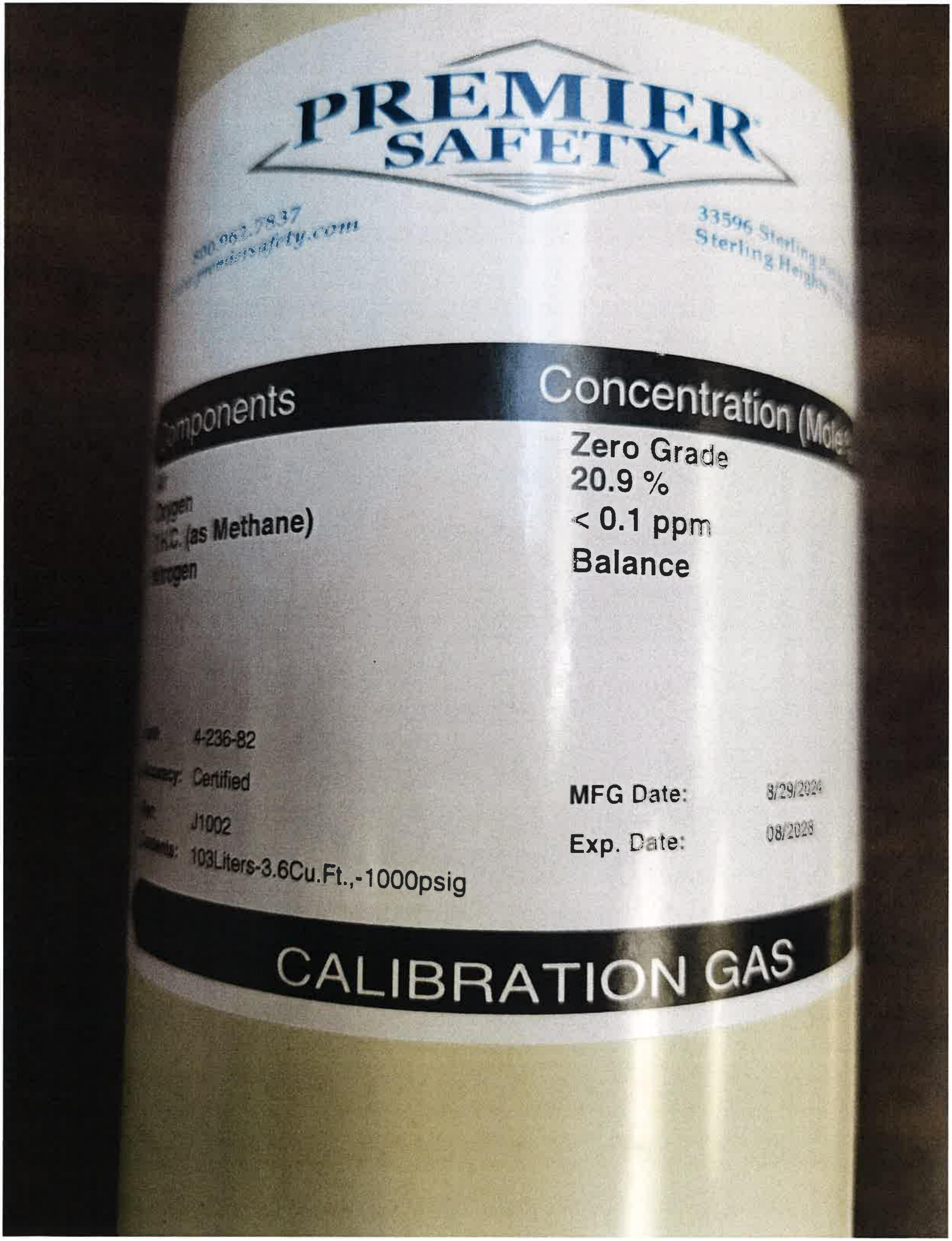
Component	Reported Concentration	Requested Concentration
Air	Zero Grade	Zero Grade
Oxygen	20.9 %	20.9 %
T.H.C. (as Methane)	< 0.1 ppm	< 0.1 ppm
Nitrogen	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Minor constituents tested with standards traceable to NIST by mass or comparison to SRM's (Standard Reference Materials).

NIST Traceable Numbers are available upon request.

Approved: ______________________ Date Signed: 8/29/2024
David Reed
Lab Technician



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mponents	Concentration (Mole
ir	Zero Grade
xygen	20.9 %
H.C. (as Methane)	< 0.1 ppm
itrogen	Balance

4-236-82
Certified
J1002
103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 8/29/2024
Exp. Date: 08/2028

CALIBRATION GAS

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Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

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Sterling Hights MI 48312

Cust Number	07152
Order Number	69679439
PO Number	04906817

Lot Number	2-154-85
Norlab Part#	J1002
Cylinder Size	103 Liter
Number of Cyl	1

Date on Manufacture	6/13/2022
Expires	06/2025
Analytical Accuracy	Certified

Customer Part# N/A

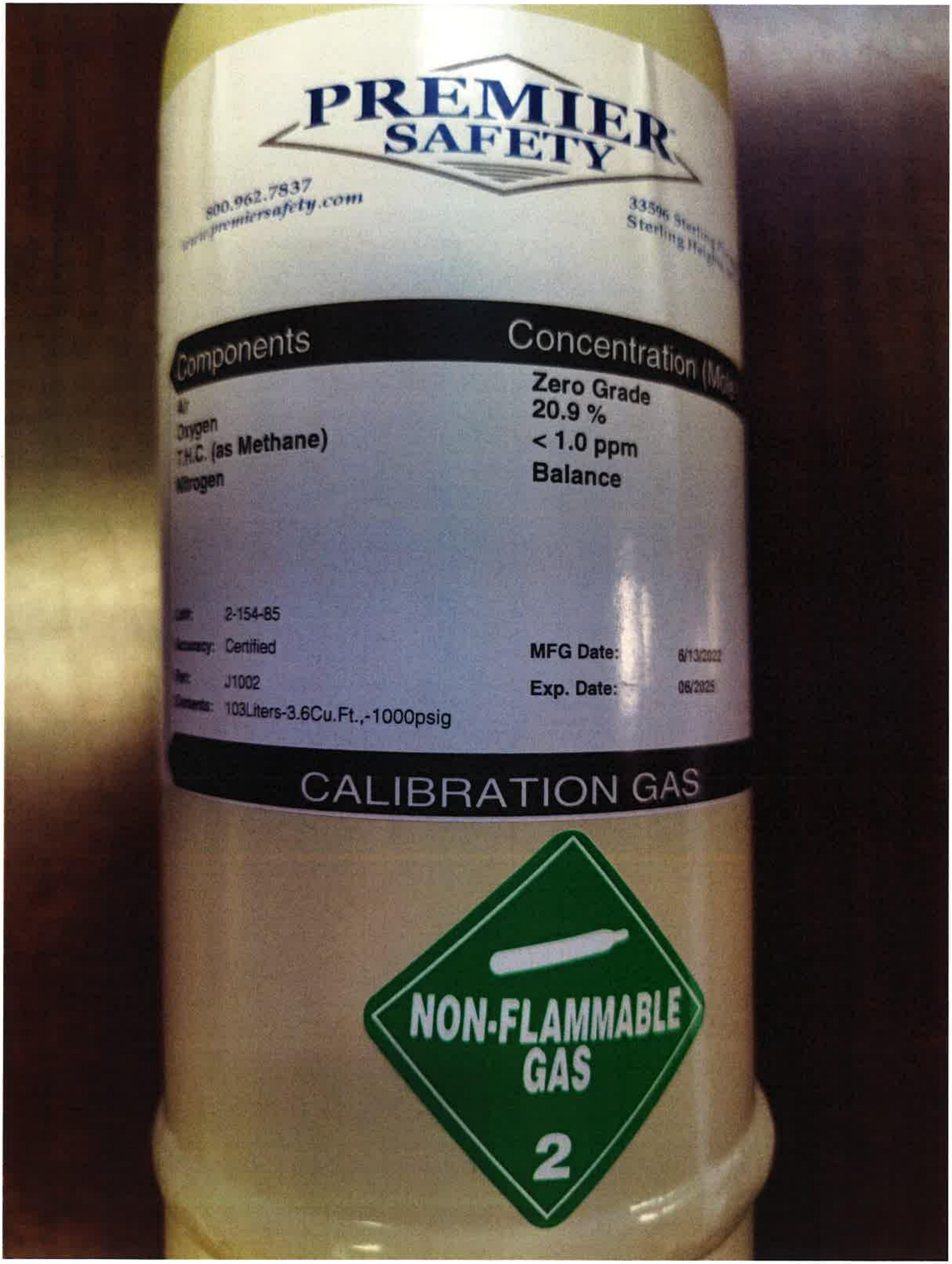
Component	Reported Concentration	Requested Concentration
Air	Zero Grade	Zero Grade
Oxygen	20.9 %	20.9 %
T.H.C. (as Methane)	< 1.0 ppm	< 1.0 ppm
Nitrogen	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Minor constituents tested with standards traceable to NIST by mass or comparison to SRM's (Standard Reference Materials).

NIST Traceable Numbers are available upon request.

Approved: Date Signed: 6/13/2022
David Reed
Lab Technician



Components	Concentration (Mo
Air	Zero Grade
Oxygen	20.9 %
T.H.C. (as Methane)	< 1.0 ppm
Nitrogen	Balance

Lot: 2-154-85

Accuracy: Certified

Part: J1002

Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 6/13/2022

Exp. Date: 06/2025

CALIBRATION GAS

NorLAB®
A DIVISION OF NORCO, INC.
Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 75275610
PO Number 04B84126

Lot Number 4-176-81
Norlab Part# J197125PA
Cylinder Size 103 Liter
Number of Cyl 3

Customer Part# N/A

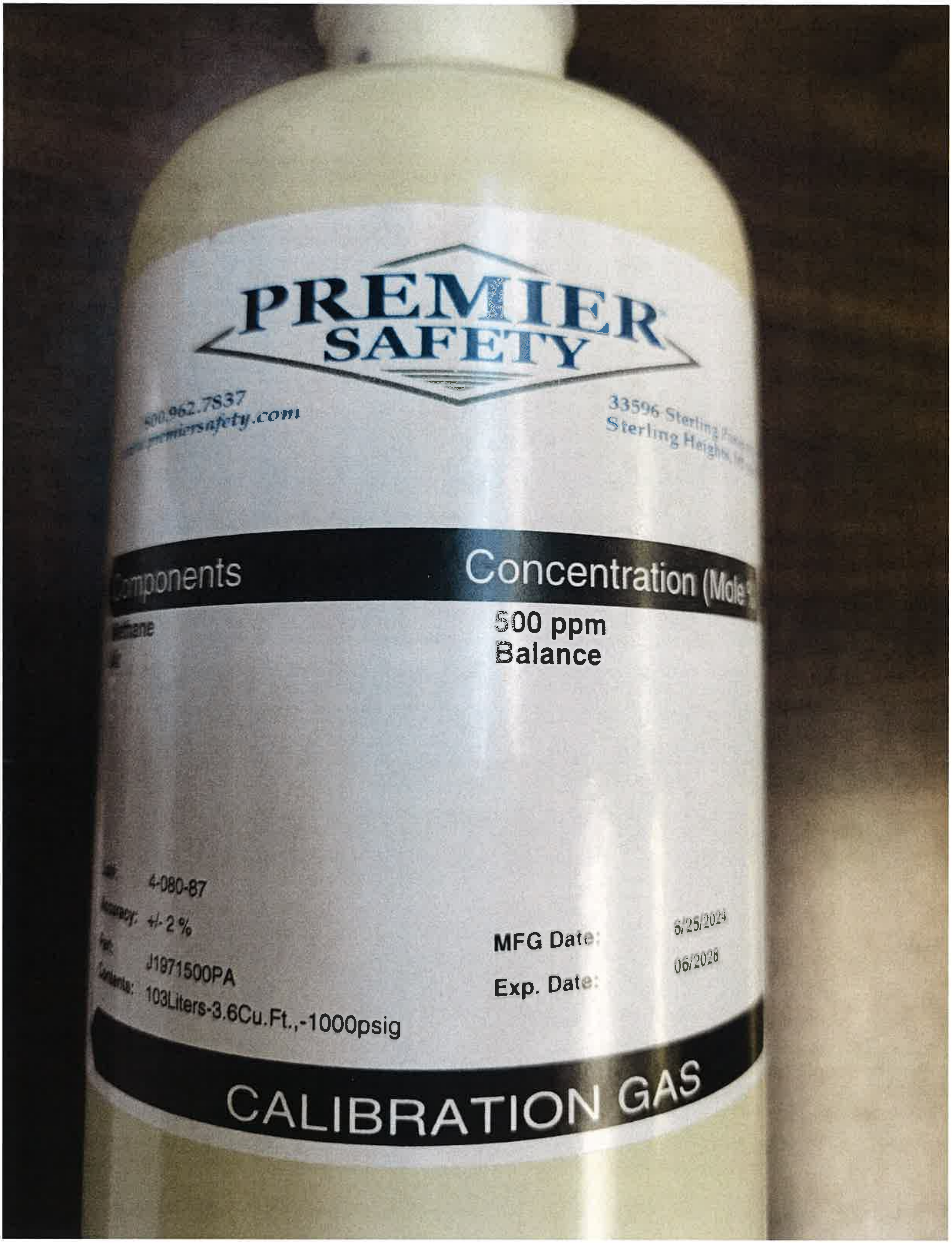
Date on Manufacture 6/25/2024
Expires 06/2028
Analytical Accuracy +/- 5 %

Component	**Reported Concentration**	**Requested Concentration**
Methane	25 ppm	25 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: ______________________ Date Signed: 6/25/2024
David Reed
Lab Technician



omponents	Concentration (Mole
ethane	500 ppm
ir	Balance

4-080-87
ccuracy: +/- 2 %
J1971500PA
ontents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 6/25/2024
Exp. Date: 06/2028

INTERMOUNTAIN SPECIALTY GASES
520 N. Kings Road • Nampa • Idaho • 83687
800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	25 ppm	± 5%
Air	Balance	

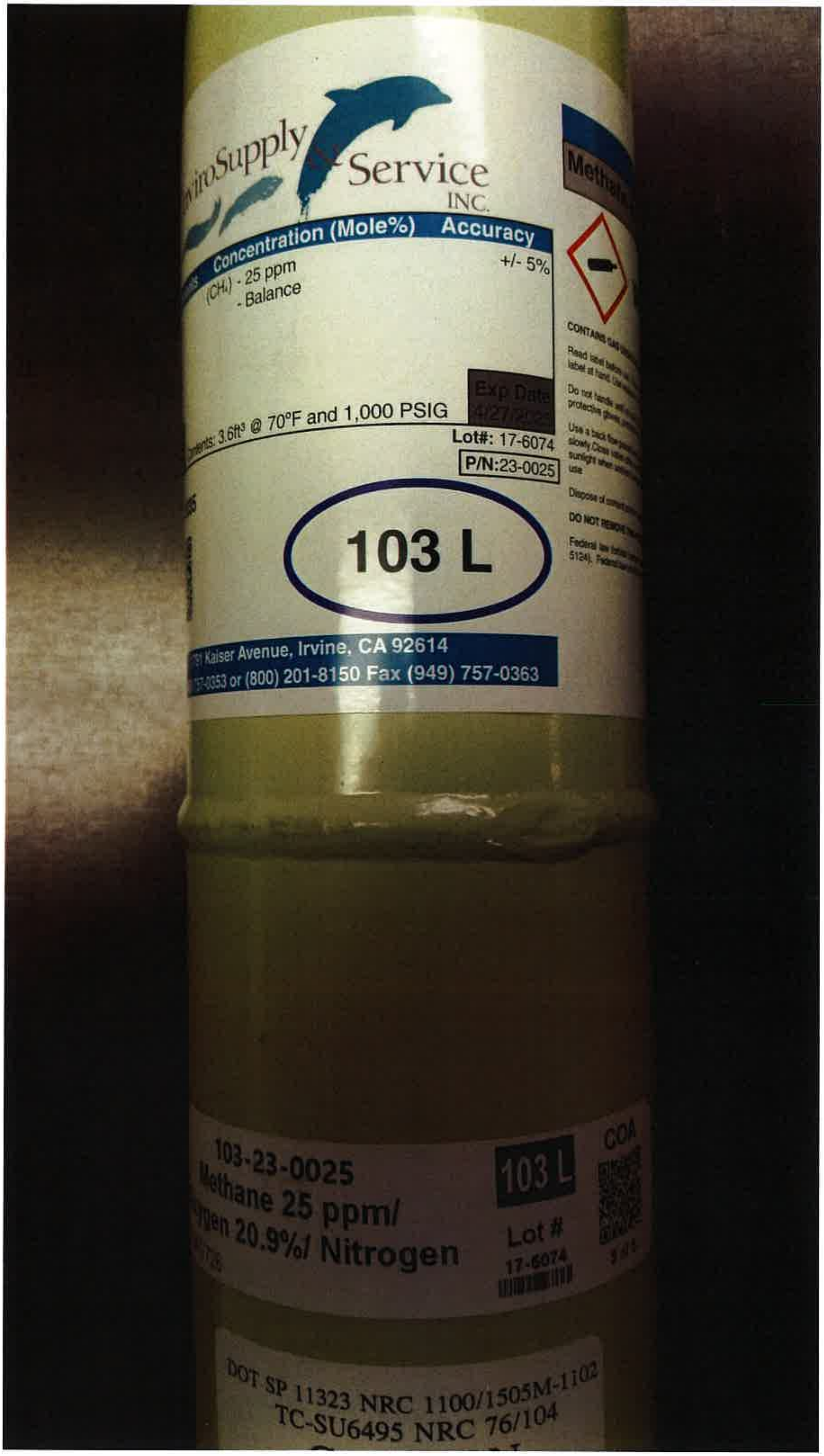
Lot # 17-6074

Mfg. Date: 10/16/2017
Parent Cylinder ID Number: 17161

Method of Preparation:
Gravimetric/Pressure Transfilled

Method of Analysis:
The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 10/16/2017


viroSupply
Service
INC.
Concentration (Mole%)
Accuracy
(CH₄) - 25 ppm
- Balance
+/- 5%
Exp Date
4/27/202
ntents: 3.6ft³ @ 70°F and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Kaiser Avenue, Irvine, CA 92614
-0053 or (800) 201-8150 Fax (949) 757-0363
Metha
CONTAINS GAS
Read label
label at hand
Do not handle
protective gloves
Use a back flow
slowly Close
sunlight when
use
Dispose of
DO NOT REMOVE
Federal law
5124). Federal
103-23-0025
ethane 25 ppm/
gen 20.9%/ Nitrogen
103 L
Lot #
17-6074
COA
DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104

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Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number	07152
Order Number	73732858
PO Number	04B70733

Lot Number	3-340-62
Norlab Part#	J197125PA
Cylinder Size	103 Liter
Number of Cyl	5

Date on Manufacture	12/7/2023
Expires	12/2027
Analytical Accuracy	+/- 5 %

Customer Part# N/A

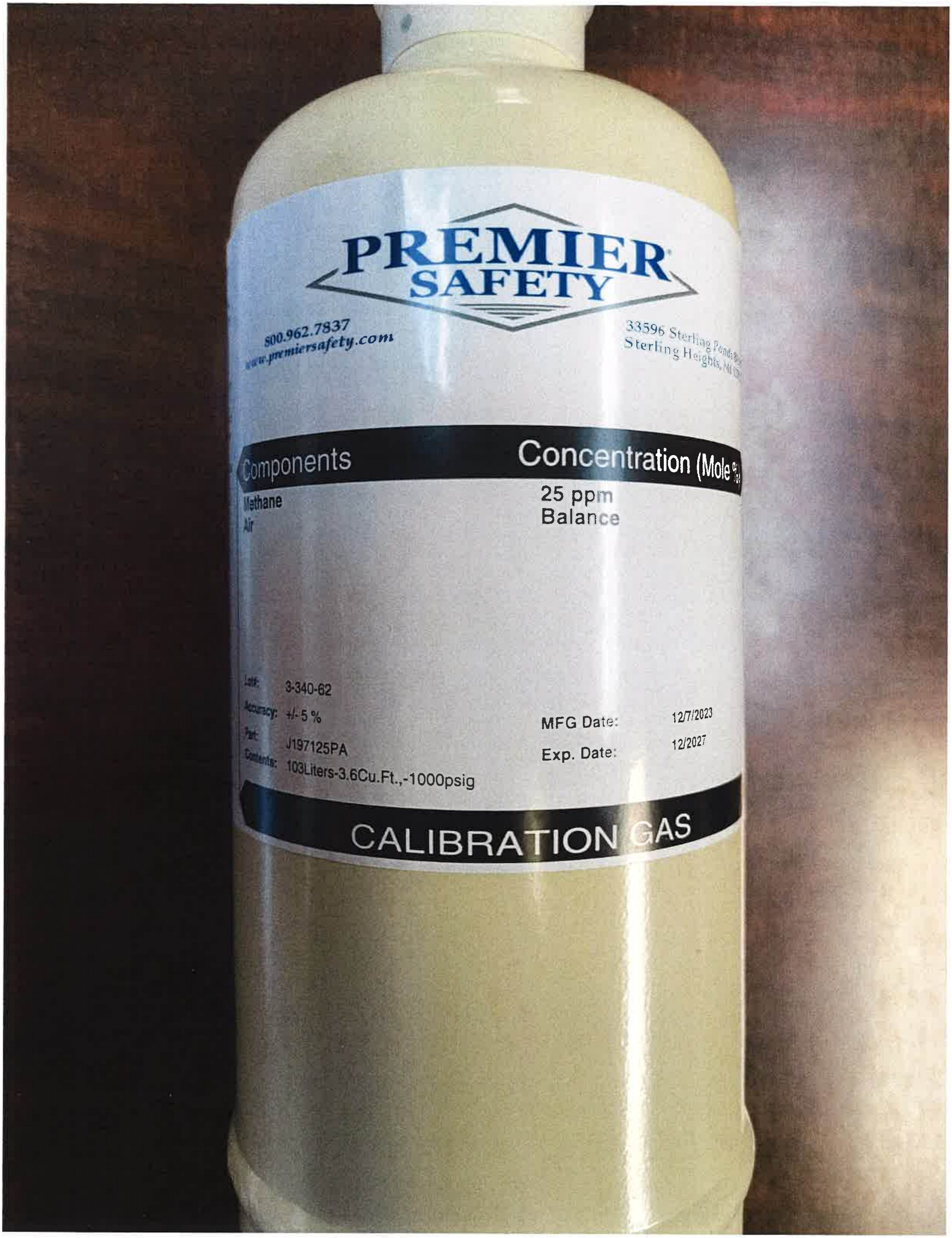
Component	**Reported Concentration**	**Requested Concentration**
Methane	25 ppm	25 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: Date Signed: 12/7/2023

Aaron Schwenken
Lab Manager



PREMIER SAFETY

800.962.7837
www.premiersafety.com

33596 Sterling Ponds
Sterling Heights, MI

Components	Concentration (Mole
Methane	25 ppm
Air	Balance

Lot#: 3-340-62
Accuracy: +/- 5 %
Part: J197125PA
Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 12/7/2023
Exp. Date: 12/2027

CALIBRATION GAS

NorLAB®
A DIVISION OF NORCO, INC.
Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 75275610
PO Number 04B84126

Lot Number 4-080-87
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 5

Customer Part# N/A

Date on Manufacture 6/25/2024
Expires 06/2028
Analytical Accuracy +/- 2 %

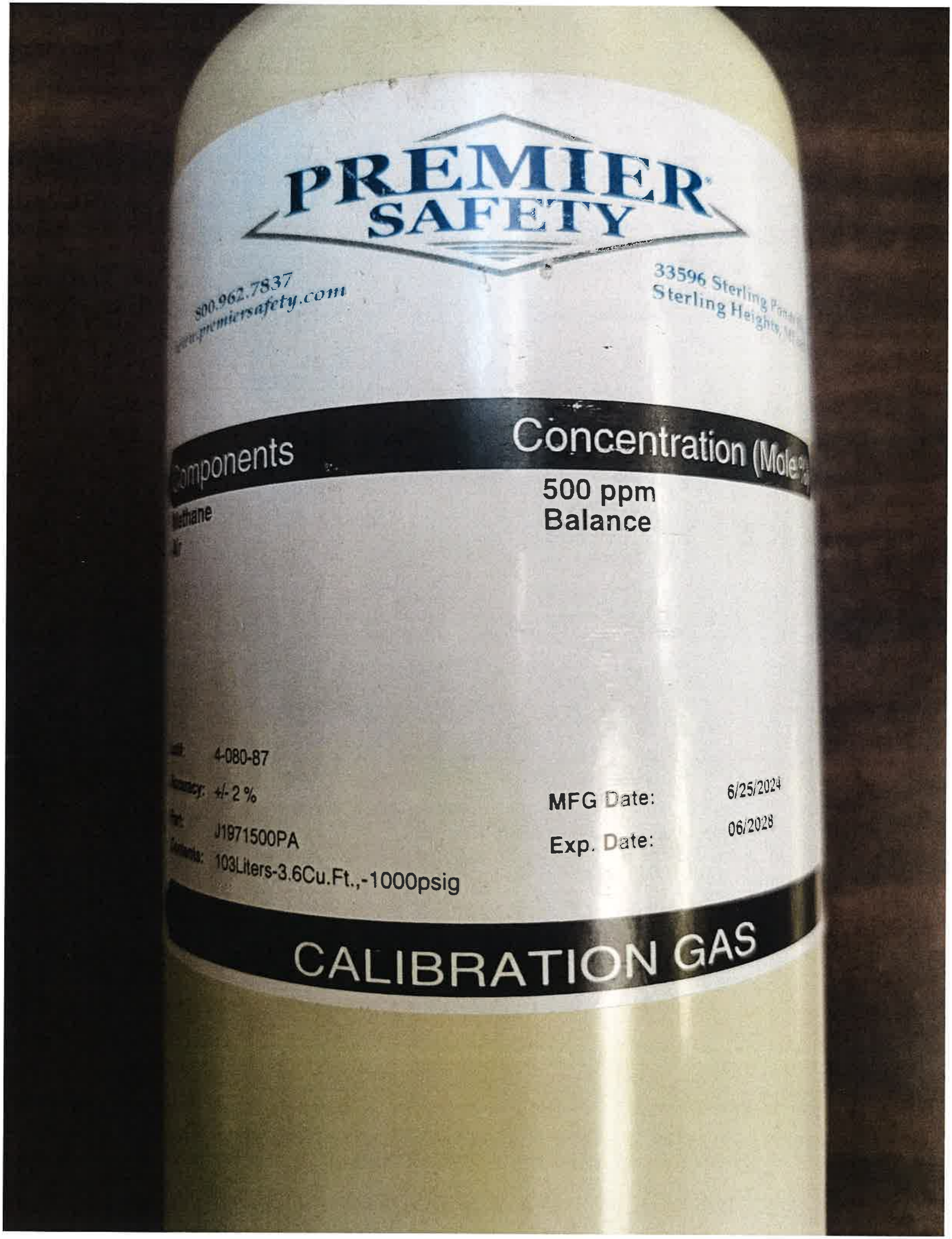
Component	**Reported Concentration**	**Requested Concentration**
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: Date Signed: 6/25/2024

David Reed
Lab Technician



PREMIER® SAFETY

800.962.7837
www.premiersafety.com

33596 Sterling
Sterling Heights,

Components	Concentration (Mole
Methane	500 ppm
Air	Balance

4-080-87
+/- 2 %
J1971500PA
103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 6/25/2024
Exp. Date: 06/2028

CALIBRATION GAS

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Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 69671309
PO Number 08361523

Lot Number 2-108-80
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 1

Customer Part# N/A

Date on Manufacture 6/10/2022
Expires 06/2025
Analytical Accuracy +/- 2 %

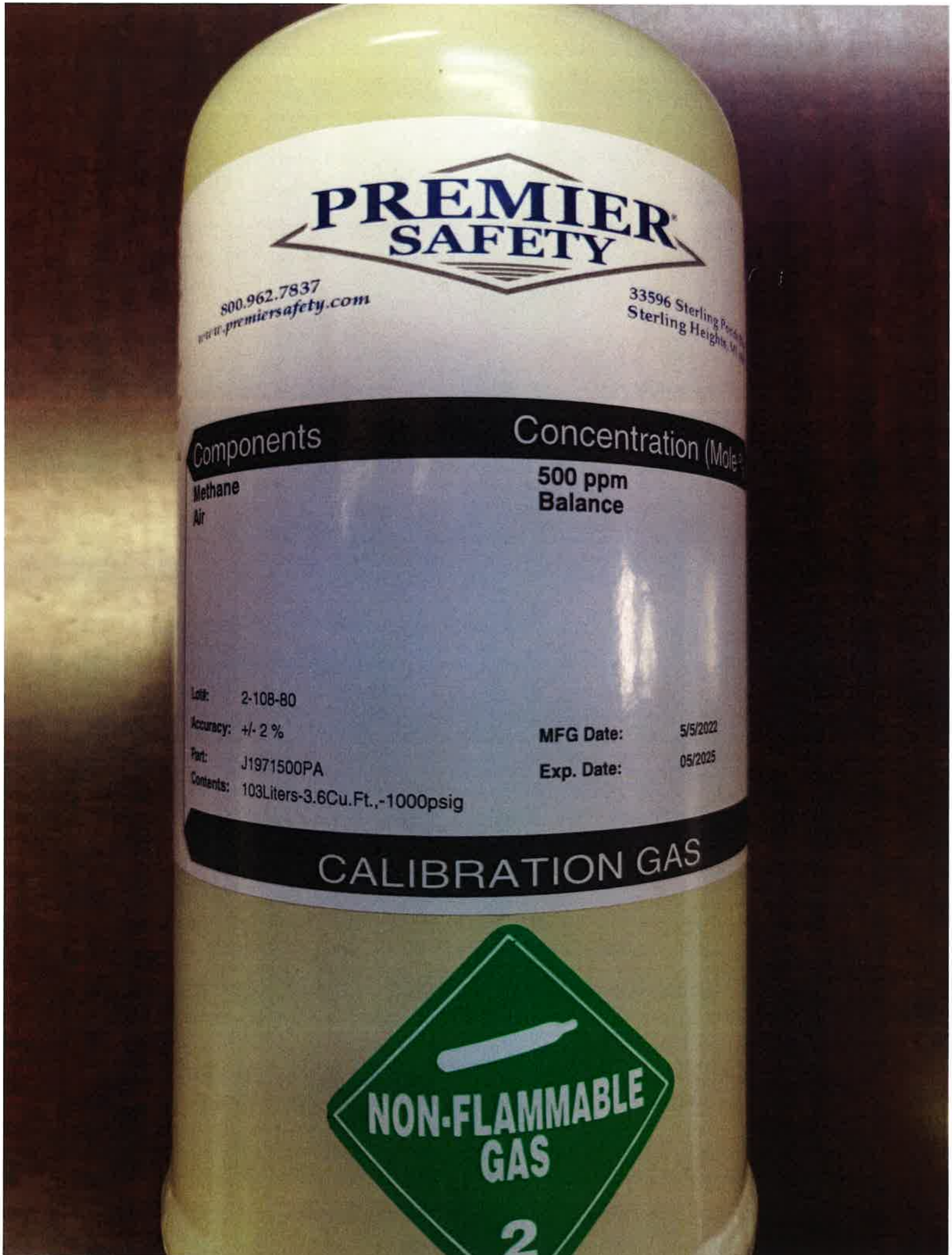
Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: David Reed
Lab Technician

Date Signed: 6/10/2022



PREMIER SAFETY

800.962.7837
www.premiersafety.com

33596 Sterling
Sterling Heights,

Components	Concentration (Mole
Methane	500 ppm
Air	Balance

Lot#: 2-108-80

Accuracy: +/- 2 %

Part: J1971500PA

Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 5/5/2022

Exp. Date: 05/2025

CALIBRATION GAS

NorLAB®

A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Norco, Inc
Twin Falls Warehouse
203 S. Park Ave. West
Twin Falls, ID 83301

Cust Number	WH012
Order Number	71846398
PO Number	04A35563

Lot Number	3-088-88
Norlab Part#	J1971500PA
Cylinder Size	103 Liter
Number of Cyl	5
Customer Part#	N/A

Date on Manufacture	4/7/2023
Expires	04/2027
Analytical Accuracy	+/- 2 %

Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

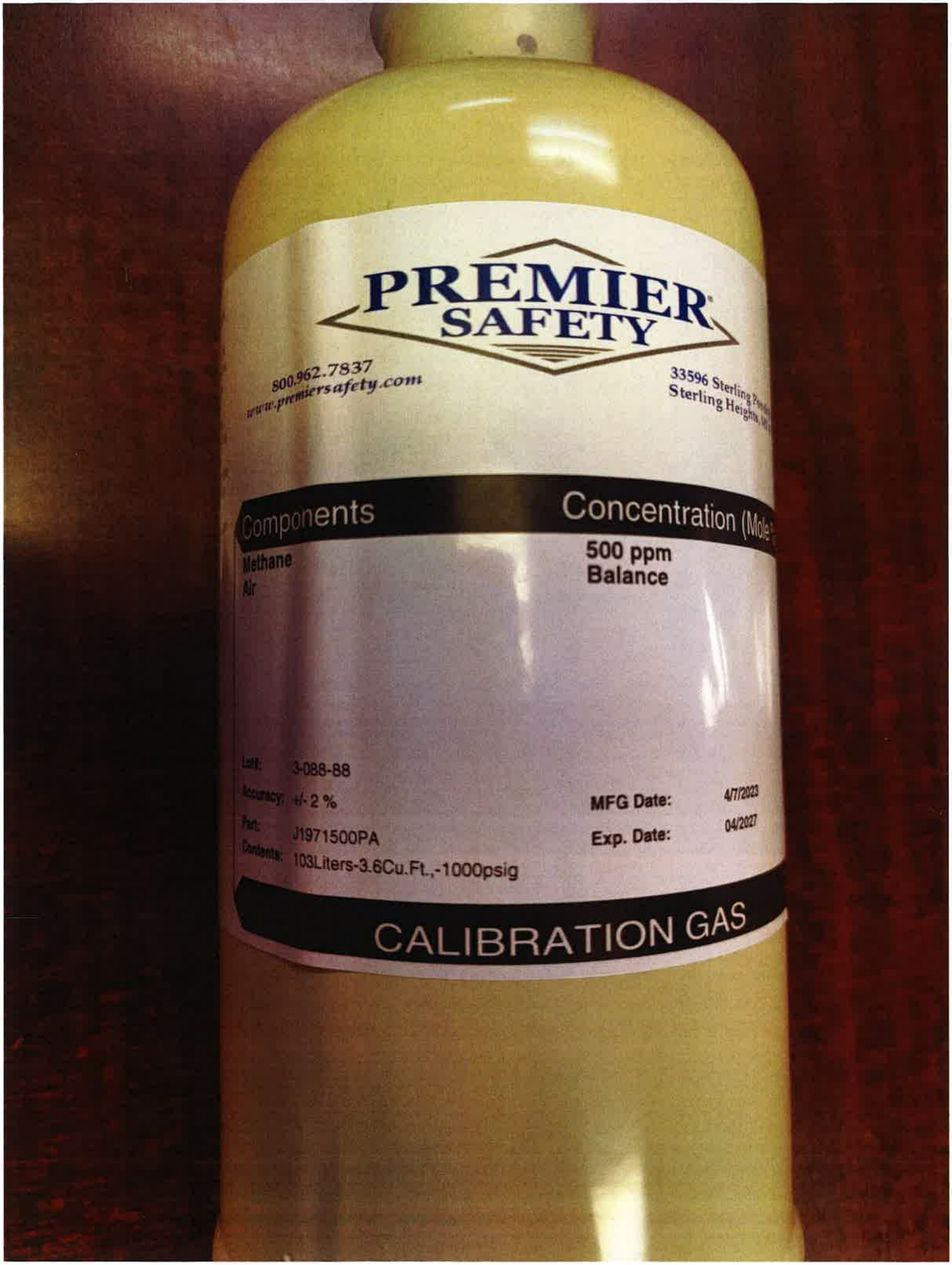
Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved: ______________ Date Signed: 4/7/2023

Jeff Korn
Lab Technician



Components	Concentration (Mole
Methane	500 ppm
Air	Balance

Lot#: 3-088-88

Accuracy: +/- 2 %

Part: J1971500PA

Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 4/7/2023

Exp. Date: 04/2027

NorLAB®
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Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 73732858
PO Number 04B70733

Lot Number 3-340-61
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 5

Customer Part# N/A

Date on Manufacture 12/7/2023
Expires 12/2027
Analytical Accuracy +/- 2 %

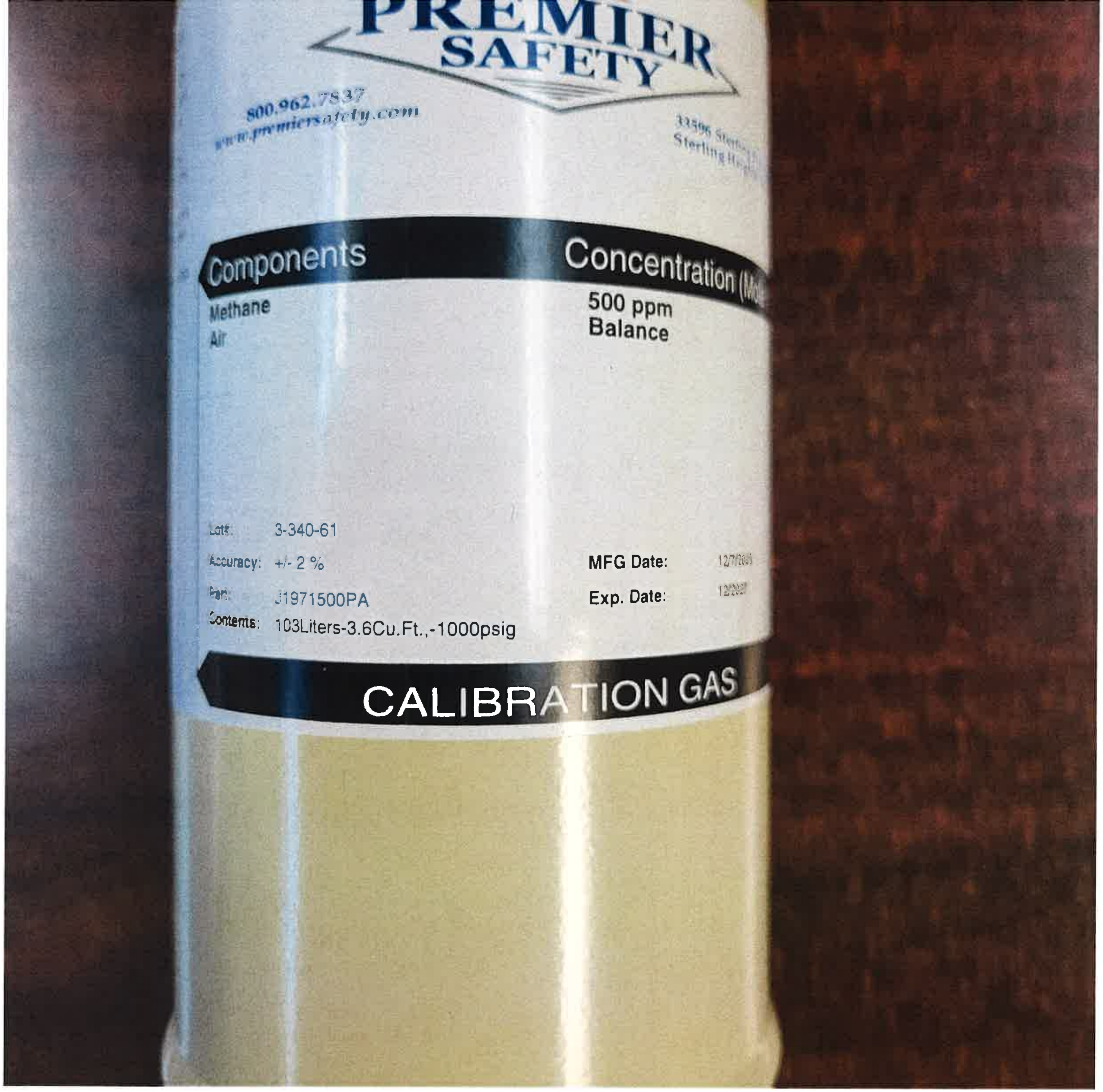
Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs. NIST Traceable Numbers are available upon request.

Approved: Date Signed: 12/7/2023

Aaron Schwenken
Lab Manager



PREMIER
SAFETY

800.962.7837
www.premiersafety.com

33596 Ster[illegible]
Sterling H[illegible]

Components	Concentration (Mo
Methane	500 ppm
Air	Balance

Lots: 3-340-61

Accuracy: +/- 2 %

Part: J1971500PA

Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 12/7/[illegible]

Exp. Date: 12/[illegible]

CALIBRATION GAS

APPENDIX G

COMPONENT LEAK CHECK REPORTS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
THIRD QUARTER 2024 LFG COMPONENT LEAK MONITORING

INSTRUMENT	FID
MAKE:	Photo Scientific
MODEL:	TVA 1000
S/N:	1036346773

DATES OF SAMPLING: July 24, 2024
FIELD TECHNICIANS: Leigh Wade

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NO EXCEEDANCES WERE DETECTED DURING THE THIRD QUARTER 2024 MONITORING EVENT							
In the event that an exceedance is detected, please intiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.							
NOTE: Leaks over 500 ppmv methane are exceedances at any component containing landfill gas, pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B).							
NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.							
ND = Not Detected							

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
FOURTH QUARTER 2024 LFG COMPONENT LEAK MONITORING

INSTRUMENT	FID
MAKE:	Photo Scientific
MODEL:	TVA 1000
S/N:	1036346773

DATES OF SAMPLING: December 2, 2024
FIELD TECHNICIANS: Leigh Wade

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NO EXCEEDANCES WERE DETECTED DURING THE FOURTH QUARTER 2024 MONITORING EVENT							
In the event that an exceedance is detected, please intiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.							
NOTE: Leaks over 500 ppmv methane are exceedances at any component containing landfill gas, pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B).							
NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.							
ND = Not Detected							

APPENDIX H

MONTHLY SOLID WASTE PLACEMENT TOTALS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Solid Waste Placement Totals

July 1, 2024 through December 31, 2024

July	Disposed	August	Disposed	September	Disposed	October	Disposed	November	Disposed	December	Disposed
Total in Tons	22,260		23,545		20,389		23,591		17,905		19,540

Total Disposed July 1, 2024 through December 31, 2024 **127,230**

APPENDIX I

WELLFIELD MONITORING LOGS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - July 2, 3, 12, 15, 16, 17, and 18, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	7/2/2024 6:34	48.1	37.6	0.0	14.3	87.5	86.8	-36.3	-36.3
KCLC0109	7/2/2024 6:29	58.1	41.9	0.0	0.0	89.5	89.5	-41.4	-41.4
KCLC0110	7/2/2024 6:22	56.8	42.9	0.0	0.3	103.7	103.9	-43.7	-43.4
KCLC0111	7/3/2024 5:41	52.4	39.9	1.3	6.4	69.9	69.9	-43.7	-43.8
KCLC0112	7/3/2024 5:44	56.9	42.4	0.0	0.7	90.5	90.6	-39.4	-38.6
KCLC0139	7/12/2024 11:35	55.0	40.2	0.0	4.8	119.3	119.4	-2.6	-2.1
KCLC0140	7/12/2024 11:11	55.8	37.1	0.9	6.2	100.5	100.7	-2.8	-2.8
KCLC0141	7/12/2024 10:43	47.0	36.9	0.0	16.1	100.3	100.4	-8.6	-4.0
KCLC0142	7/16/2024 6:38	45.6	34.8	2.6	17.0	96.4	95.5	-0.2	-0.2
KCLC0143	7/15/2024 7:34	45.8	35.0	0.7	18.5	107.3	107.1	-1.8	-1.2
KCLC0145	7/12/2024 6:41	41.3	32.0	3.3	23.4	69.5	69.2	-35.6	-32.9
KCLC0147	7/12/2024 7:00	56.8	42.0	0.0	1.2	72.6	72.5	-35.4	-34.6
KCLC0149	7/12/2024 6:36	50.6	39.7	0.0	9.7	104.5	104.5	-8.7	-8.7
KCLC0151	7/12/2024 6:57	56.6	41.7	0.0	1.7	120.7	120.6	-14.5	-15.7
KCLC0152	7/12/2024 6:53	55.7	40.4	0.0	3.9	113.9	113.9	-16.2	-16.5
KCLC0153	7/15/2024 7:20	52.8	36.2	0.4	10.6	99.1	99.1	-7.9	-7.9
KCLC0154	7/12/2024 6:34	55.6	40.6	0.0	3.8	97.7	99.0	-0.8	-1.5
KCLC0155	7/12/2024 6:44	57.1	39.2	0.0	3.7	113.4	113.5	-8.5	-9.5
KCLC0156	7/12/2024 6:49	57.7	40.8	0.0	1.5	95.6	95.3	-21.4	-23.4
KCLC0157	7/12/2024 7:18	6.5	12.9	16.0	64.6	71.6	71.6	-24.3	-24.2
KCLC0158	7/12/2024 10:54	55.0	40.6	0.0	4.4	115.7	115.7	-7.1	-10.2
KCLC0159	7/12/2024 10:24	57.1	41.1	0.0	1.8	109.1	109.1	-2.8	-3.5
KCLC0160	7/3/2024 5:57	54.0	38.3	1.0	6.7	73.7	73.4	-41.4	-42.0
KCLC0161	7/12/2024 6:15	50.8	40.9	0.0	8.3	114.1	115.2	-12.8	-17.9
KCYN0014	7/2/2024 6:38	55.5	33.5	0.0	11.0	100.8	100.9	-2.7	-2.7
KCYN0027	7/16/2024 10:41	51.4	34.1	0.8	13.7	116.8	116.7	-5.3	-5.2
KCYN0048	7/12/2024 6:11	50.9	40.4	0.0	8.7	118.5	119.2	-1.8	-2.5
KCYN0051	7/15/2024 9:06	56.6	38.0	1.0	4.4	90.2	90.2	-24.3	-24.5
KCYN0054	7/12/2024 11:04	8.5	12.2	10.5	68.8	93.9	95.1	-11.1	-6.4
KCYN0056	7/12/2024 11:26	52.4	39.5	0.0	8.1	117.3	117.7	-3.0	-3.0
KCYN0056	7/15/2024 9:14	55.7	38.1	1.8	4.4	113.6	114.7	-4.8	-4.8
KCYN0057	7/15/2024 9:25	53.5	39.8	0.6	6.1	72.6	73.1	-5.1	-5.2
KCYN0058	7/12/2024 11:17	51.1	36.3	1.2	11.4	119.0	118.5	-0.6	-0.6
KCYN0062	7/16/2024 5:57	59.3	37.3	0.2	3.2	110.9	110.6	-48.3	-48.2
KCYN0063	7/16/2024 6:04	58.0	41.3	0.0	0.7	105.1	109.1	-30.9	-48.4
KCYN0063	7/16/2024 6:09	NSPS/EG Parameter Corrective Action Completed (PCAC_O2)							
KCYN0063	7/17/2024 6:52	59.2	40.2	0.0	0.6	106.0	105.9	-47.5	-48.2
KCYN0063	7/17/2024 6:55	58.3	41.7	0.0	0.0	109.3	109.2	-50.0	-50.3
KCYN0065	7/12/2024 11:09	58.4	31.8	0.8	9.0	93.6	93.7	-3.5	-2.9
KCYN0066	7/2/2024 6:44	59.7	39.4	0.0	0.9	124.2	124.3	-50.8	-50.8
KCYN0070	7/16/2024 6:19	53.3	39.5	0.0	7.2	111.0	111.2	-14.6	-13.9
KCYN0071	7/16/2024 10:29	56.6	39.0	0.2	4.2	127.8	128.2	-47.6	-46.8
KCYN0072	7/16/2024 6:08	48.8	38.3	0.0	12.9	110.3	110.2	-10.0	-8.9
KCYN0074	7/16/2024 7:05	57.4	40.7	0.0	1.9	104.4	104.4	-35.9	-35.6
KCYN0075	7/12/2024 11:30	53.5	42.1	0.0	4.4	124.2	124.3	-22.1	-22.1
KCYN0076	7/17/2024 9:37	58.8	39.9	0.2	1.1	129.6	129.3	-33.2	-33.2
KCYN0078	7/3/2024 6:32	56.6	41.7	0.0	1.7	130.3	130.3	-11.5	-10.3
KCYN0082	7/12/2024 10:57	53.4	40.8	0.0	5.8	118.1	118.0	-12.9	-14.2
KCYN0084	7/15/2024 7:27	54.0	37.7	0.1	8.2	124.0	124.0	-4.5	-5.2
KCYN0086	7/12/2024 7:11	55.9	39.6	0.5	4.0	129.4	129.0	-22.6	-22.6
KCYN0087	7/12/2024 11:44	52.3	38.7	0.0	9.0	119.2	118.8	-2.8	-2.8
KCYN0088	7/16/2024 10:23	54.8	35.7	0.0	9.5	109.7	109.7	-29.7	-40.5
KCYN0089	7/18/2024 7:57	58.0	40.7	0.0	1.3	129.7	129.3	-34.0	-32.5
KCYN0090	7/16/2024 6:27	56.3	40.5	0.0	3.2	102.2	102.0	-49.3	-47.5
KCYN0091	7/3/2024 6:58	58.9	39.0	0.0	2.1	130.3	130.5	-37.1	-37.3
KCYN0092	7/17/2024 6:43	59.3	40.6	0.1	0.0	102.3	102.4	-34.1	-34.1
KCYN0093	7/3/2024 6:15	57.5	41.7	0.0	0.8	100.4	100.4	-45.8	-45.8
KCYN0094	7/16/2024 10:18	62.3	37.0	0.3	0.4	125.9	125.9	-38.5	-38.2
KCYN0095	7/3/2024 6:28	55.7	41.6	0.0	2.7	104.5	104.5	-34.6	-34.6
KCYN0097	7/16/2024 6:23	57.5	41.0	0.0	1.5	119.2	119.2	-39.7	-37.4
KCYN0098	7/3/2024 6:19	57.0	41.5	0.0	1.5	127.7	127.7	-33.8	-33.8
KCYN0099	7/16/2024 6:14	46.8	38.0	0.0	15.2	129.6	129.5	-23.4	-21.4
KCYN0101	7/16/2024 10:38	46.7	31.3	3.9	18.1	72.1	72.2	-39.5	-39.5
KCYN0102	7/16/2024 10:33	54.1	38.4	0.1	7.4	100.8	101.6	-1.2	-1.4
KCYN0103	7/3/2024 11:21	51.9	36.9	0.4	10.8	110.5	110.5	-2.7	-2.6

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - July 2, 3, 12, 15, 16, 17, and 18, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0105	7/3/2024 5:39	54.2	40.7	0.9	4.2	69.9	69.9	-43.1	-43.6
KCYN0118	7/12/2024 6:17	54.7	42.4	0.0	2.9	117.4	117.1	-39.5	-39.4
KCYN0119	7/3/2024 6:03	56.5	41.8	0.0	1.7	130.5	130.2	-4.0	-4.7
KCYN0119	7/12/2024 6:24	56.9	41.4	0.0	1.7	130.2	130.2	-5.8	-5.7
KCYN0121	7/12/2024 5:58	58.8	41.1	0.0	0.1	101.5	101.3	-39.6	-39.6
KCYN0122	7/3/2024 6:00	56.5	40.8	0.6	2.1	109.4	109.6	-37.3	-37.2
KCYN0122	7/12/2024 6:22	56.3	40.8	0.1	2.8	103.6	103.6	-37.4	-37.3
KCYN0123	7/12/2024 11:23	50.3	35.9	1.1	12.7	125.3	125.0	-1.7	-1.7
KCYN0124	7/15/2024 9:01	55.3	39.1	0.1	5.5	111.9	111.9	-5.8	-6.4
KCYN0125	7/17/2024 10:48	60.1	39.2	0.2	0.5	103.7	111.3	-1.3	-1.3
KCYN0126	7/12/2024 10:50	52.3	37.9	0.3	9.5	128.9	128.9	-2.2	-1.8
KCYN0127	7/15/2024 9:22	56.5	41.2	0.7	1.6	128.5	128.4	-23.3	-23.3
KCYN0128	7/12/2024 7:13	56.2	41.6	0.0	2.2	130.0	130.1	-23.1	-23.1
KCYN0129	7/12/2024 7:07	56.3	38.9	0.6	4.2	101.1	101.4	-35.2	-34.7
KCYN0130	7/3/2024 5:34	54.2	36.0	0.0	9.8	111.3	111.5	-4.4	-4.5
KCYN0131	7/3/2024 5:36	56.9	38.5	0.5	4.1	115.1	115.1	-44.5	-43.3
KCYN0133	7/3/2024 6:13	53.0	39.0	2.1	5.9	77.6	77.5	-11.9	-11.2
KCYN0134	7/3/2024 6:35	54.8	41.2	0.0	4.0	85.3	85.5	-10.7	-10.7
KCYN0135	7/3/2024 6:37	55.8	42.4	0.0	1.8	122.3	122.5	-11.6	-11.6
KCYN0162	7/3/2024 5:54	45.0	34.6	3.4	17.0	86.3	82.6	-39.8	-41.8
KCYN0163	7/3/2024 5:50	56.9	37.6	0.7	4.8	83.1	82.1	-24.8	-26.1
KCYN0164	7/12/2024 10:17	60.8	36.5	0.2	2.5	96.3	96.4	-40.8	-40.4
KCYN0165	7/12/2024 10:20	55.8	38.9	0.0	5.3	121.1	121.4	-12.2	-15.0
KCYN0166	7/12/2024 6:08	56.1	40.5	0.0	3.4	128.7	128.7	-3.7	-4.2
KCYN0167	7/12/2024 6:04	57.8	41.3	0.0	0.9	114.0	114.0	-39.3	-39.3
KCYN0168	7/12/2024 6:01	58.3	40.8	0.0	0.9	121.7	122.4	-3.6	-4.4
KCYN0169	7/2/2024 5:59	57.7	41.5	0.0	0.8	111.5	111.8	-0.6	-0.7
KCYN0170	7/2/2024 6:04	51.5	41.8	0.0	6.7	108.4	108.4	-6.8	-7.1
KCYN0171	7/2/2024 6:11	55.7	43.9	0.0	0.4	117.9	117.9	-19.8	-20.4
KCYN0172	7/2/2024 6:15	49.5	41.0	0.0	9.5	119.7	119.7	-10.9	-10.9
KCYNLR04	7/3/2024 6:41	50.4	38.3	1.2	10.1	98.5	98.8	-26.5	-21.1
KCYNLR08	7/16/2024 5:51	63.5	33.4	0.4	2.7	78.5	78.4	-53.6	-53.6
KCYNLR11	7/2/2024 6:31	49.3	37.5	0.7	12.5	68.4	68.3	-0.3	-0.3
KCYNLR12	7/2/2024 5:54	47.5	36.3	1.7	14.5	88.2	87.9	-3.4	-2.6

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of July 31, 2024, there are 89 vertical wells, 0 horizontal collector, and 4 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - August 1, 2, 5, and 7, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	8/1/2024 6:57	49.9	36.7	0.0	13.4	83.9	84.8	-31.7	-31.7
KCLC0109	8/1/2024 6:45	57.2	41.6	0.0	1.2	89.6	90.0	-38.7	-38.7
KCLC0110	8/1/2024 6:42	53.9	41.2	0.1	4.8	96.8	97.3	-39.2	-41.0
KCLC0111	8/1/2024 7:35	51.5	38.3	1.1	9.1	60.0	59.7	-38.2	-38.0
KCLC0112	8/1/2024 7:40	55.9	39.6	0.7	3.8	85.2	85.3	-36.0	-36.1
KCLC0139	8/2/2024 7:51	56.5	41.5	0.5	1.5	116.3	116.2	-37.2	-36.3
KCLC0140	8/2/2024 7:47	57.1	40.8	0.0	2.1	86.3	86.4	-39.3	-39.4
KCLC0141	8/2/2024 6:06	49.1	37.3	0.0	13.6	97.6	97.6	-3.7	-3.6
KCLC0142	8/2/2024 6:11	19.9	26.5	0.1	53.5	103.4	102.9	-0.7	-0.6
KCLC0143	8/2/2024 7:14	46.2	36.9	0.0	16.9	105.6	105.7	-0.8	-0.8
KCLC0145	8/5/2024 9:18	50.0	31.7	3.0	15.3	60.1	60.1	-31.0	-31.0
KCLC0147	8/5/2024 9:24	53.5	37.9	1.4	7.2	68.3	68.3	-32.6	-32.2
KCLC0149	8/5/2024 9:03	49.8	39.5	0.0	10.7	100.7	100.8	-8.0	-8.0
KCLC0151	8/5/2024 9:27	57.0	40.2	0.4	2.4	120.8	120.8	-15.7	-18.4
KCLC0152	8/5/2024 8:42	53.0	39.6	0.2	7.2	113.5	113.5	-17.1	-17.7
KCLC0153	8/5/2024 8:55	50.2	38.9	0.0	10.9	99.1	99.1	-7.1	-7.1
KCLC0154	8/5/2024 9:00	49.5	39.6	0.0	10.9	101.7	101.7	-2.7	-2.7
KCLC0155	8/5/2024 9:07	55.1	41.4	0.0	3.5	113.5	113.5	-10.1	-10.1
KCLC0156	8/5/2024 9:21	57.9	38.7	0.2	3.2	98.0	98.2	-21.1	-24.7
KCLC0158	8/2/2024 7:28	46.8	40.1	0.0	13.1	114.6	114.7	-8.7	-8.7
KCLC0159	8/1/2024 9:10	54.0	40.3	0.0	5.7	108.0	108.5	-4.5	-7.5
KCLC0160	8/1/2024 7:59	51.4	36.0	2.2	10.4	68.5	66.2	-36.4	-36.3
KCLC0161	8/1/2024 8:22	43.5	37.6	0.9	18.0	114.1	115.4	-19.3	-17.4
KCYN0014	8/1/2024 7:04	53.6	32.2	0.0	14.2	96.4	97.3	-2.8	-2.7
KCYN0027	8/5/2024 8:14	57.7	40.9	0.4	1.0	73.1	73.1	-44.1	-44.1
KCYN0048	8/1/2024 8:59	41.9	38.1	0.0	20.0	118.8	120.6	-1.7	-1.6
KCYN0051	8/2/2024 7:21	54.6	40.8	0.0	4.6	90.5	90.5	-22.6	-22.3
KCYN0056	8/2/2024 8:03	52.6	42.8	0.3	4.3	119.1	118.8	-36.3	-36.3
KCYN0057	8/2/2024 8:20	52.3	39.1	1.4	7.2	77.3	77.3	-41.6	-41.6
KCYN0058	8/5/2024 8:26	59.6	38.7	0.3	1.4	130.5	130.5	-2.5	-2.5
KCYN0062	8/5/2024 7:51	60.3	37.2	0.3	2.2	110.1	110.2	-45.6	-45.6
KCYN0063	8/5/2024 7:55	56.4	39.9	0.0	3.7	112.8	113.0	-47.5	-48.8
KCYN0065	8/2/2024 7:44	54.4	40.3	0.7	4.6	68.7	68.8	-38.7	-38.7
KCYN0066	8/1/2024 7:20	58.2	36.3	0.1	5.4	122.8	123.4	-48.8	-48.9
KCYN0070	8/1/2024 9:36	49.7	38.7	0.0	11.6	111.1	111.7	-12.7	-11.7
KCYN0071	8/2/2024 7:01	56.7	39.5	0.2	3.6	128.3	128.4	-42.8	-42.8
KCYN0072	8/5/2024 7:58	55.2	39.7	0.0	5.1	110.1	110.3	-6.1	-6.6
KCYN0074	Offline for filling								
KCYN0075	8/2/2024 8:07	56.4	41.8	0.5	1.3	117.5	118.2	-25.1	-25.1
KCYN0076	8/1/2024 8:15	55.8	41.8	0.0	2.4	130.1	130.5	-30.6	-32.2
KCYN0078	Offline for filling								
KCYN0082	8/2/2024 7:31	49.7	40.4	0.0	9.9	117.1	117.1	-14.7	-14.7
KCYN0084	8/2/2024 7:17	41.9	36.2	0.0	21.9	123.7	123.2	-5.4	-2.8
KCYN0086	8/5/2024 8:34	56.9	41.3	0.0	1.8	130.2	130.2	-30.4	-30.4
KCYN0087	8/2/2024 6:30	54.0	44.1	0.0	1.9	129.8	126.2	-35.6	-35.8
KCYN0088	8/2/2024 6:57	54.6	38.5	0.0	6.9	109.1	109.1	-39.4	-38.6
KCYN0089	8/1/2024 9:17	55.4	40.4	0.0	4.2	129.8	129.8	-29.6	-29.4
KCYN0090	8/1/2024 9:31	54.4	41.4	0.0	4.2	99.0	100.8	-42.9	-42.3
KCYN0091	8/1/2024 9:22	56.2	40.6	0.0	3.2	130.6	130.6	-31.6	-31.6
KCYN0092	8/5/2024 8:10	56.1	40.0	0.7	3.2	104.6	104.6	-34.6	-34.6
KCYN0093	8/9/2024 8:14	61.7	36.5	0.6	1.2	66.9	66.8	-44.1	-43.8
KCYN0094	8/2/2024 6:51	58.2	41.8	0.0	0.0	125.3	125.3	-34.3	-35.0
KCYN0095	8/2/2024 6:41	57.8	41.1	0.1	1.0	104.5	104.5	-33.8	-33.5
KCYN0097	8/1/2024 9:29	56.6	40.6	0.0	2.8	119.6	119.6	-34.2	-35.2
KCYN0098	8/2/2024 6:47	58.2	41.5	0.0	0.3	126.2	126.2	-32.4	-31.7
KCYN0099	8/1/2024 9:40	48.1	37.6	0.0	14.3	129.8	128.9	-15.7	-11.9
KCYN0101	8/5/2024 8:19	58.8	38.7	0.5	2.0	72.4	78.4	-0.2	-3.7
KCYN0102	8/2/2024 7:04	50.3	37.4	0.4	11.9	99.7	100.0	-2.0	-2.0
KCYN0103	8/2/2024 7:07	51.3	38.8	0.0	9.9	115.1	115.1	-5.8	-5.7
KCYN0105	8/1/2024 7:38	51.1	38.3	0.8	9.8	75.7	76.3	-37.8	-38.4
KCYN0118	8/1/2024 8:19	54.9	40.7	0.4	4.0	115.4	115.1	-32.1	-33.4
KCYN0119	8/1/2024 8:10	55.1	41.0	0.0	3.9	129.8	129.8	-6.1	-6.6
KCYN0121	8/1/2024 8:25	52.7	39.7	0.0	7.6	104.2	103.0	-33.7	-33.4
KCYN0122	8/1/2024 8:07	56.1	40.1	0.5	3.3	105.4	103.9	-31.4	-31.4
KCYN0123	8/2/2024 8:15	44.0	35.1	3.9	17.0	127.3	121.5	-20.0	-9.6
KCYN0124	8/2/2024 7:25	47.4	38.2	0.0	14.4	111.7	111.9	-7.5	-5.2
KCYN0125	8/2/2024 7:36	54.2	40.5	0.7	4.6	124.3	124.4	-10.0	-10.0
KCYN0126	8/2/2024 7:38	55.9	41.5	0.0	2.6	126.2	126.2	-27.0	-27.0
KCYN0127	8/2/2024 8:24	48.3	38.0	0.8	12.9	128.5	127.9	-19.9	-13.8
KCYN0128	8/5/2024 8:32	50.3	36.4	1.0	12.3	129.0	128.9	-30.6	-30.5
KCYN0129	8/5/2024 8:38	55.4	40.6	0.9	3.1	93.4	93.6	-32.1	-32.1

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - August 1, 2, 5, and 7, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0130	8/1/2024 7:27	51.0	35.3	0.1	13.6	110.0	110.1	-5.0	-4.9
KCYN0131	8/1/2024 7:32	58.5	40.5	0.0	1.0	108.0	109.9	-38.2	-37.8
KCYN0133	8/2/2024 6:40	50.0	40.9	0.8	8.3	96.5	101.4	-32.8	-33.2
KCYN0134	8/2/2024 6:23	58.1	38.8	0.2	2.9	88.5	88.6	-36.5	-36.5
KCYN0135	8/2/2024 6:19	55.3	39.0	0.0	5.7	126.6	126.6	-36.4	-36.4
KCYN0162	8/1/2024 7:54	51.4	37.7	1.4	9.5	78.6	78.6	-34.9	-34.9
KCYN0163	8/1/2024 7:51	37.9	33.3	1.0	27.8	77.7	78.2	-19.6	-19.7
KCYN0164	8/1/2024 9:04	52.0	38.9	0.4	8.7	83.8	83.9	-37.2	-36.6
KCYN0165	8/1/2024 9:08	56.2	39.4	0.0	4.4	120.7	121.7	-7.8	-12.2
KCYN0166	8/1/2024 8:55	50.3	38.7	0.0	11.0	129.1	129.1	-4.4	-4.4
KCYN0167	8/1/2024 8:51	55.2	41.7	0.0	3.1	117.5	117.6	-33.9	-33.8
KCYN0168	8/1/2024 8:49	53.6	39.4	0.4	6.6	122.7	123.2	-8.1	-10.0
KCYN0169	8/1/2024 6:21	56.6	42.1	0.0	1.3	111.7	112.0	-0.4	-0.4
KCYN0169	8/7/2024 6:30	50.6	39.9	0.0	9.5	113.1	113.2	-2.0	-2.3
KCYN0170	8/1/2024 6:24	49.5	40.3	0.0	10.2	108.9	108.9	-9.4	-9.4
KCYN0170	8/7/2024 6:34	49.3	40.4	0.0	10.3	109.3	109.3	-10.5	-10.6
KCYN0171	8/1/2024 6:31	54.5	42.2	0.0	3.3	118.5	118.4	-21.4	-22.7
KCYN0171	8/7/2024 6:38	56.7	38.9	0.0	4.4	118.8	118.7	-26.2	-26.8
KCYN0172	8/1/2024 6:36	47.6	40.0	0.0	12.4	118.5	118.4	-11.9	-10.4
KCYN0172	8/7/2024 6:42	51.0	40.2	0.0	8.8	120.2	120.3	-8.9	-9.7
KCYNLR04	8/2/2024 6:15	55.1	37.3	0.4	7.2	99.3	99.2	-10.2	-11.3
KCYNLR08	8/1/2024 9:45	54.9	39.5	0.0	5.6	81.4	81.6	-52.0	-51.7
KCYNLR11	8/1/2024 6:52	46.5	35.5	2.2	15.8	62.3	62.6	-0.5	-0.1
KCYNLR12	8/1/2024 6:11	50.4	37.8	0.9	10.9	86.3	86.9	-1.6	-1.7
KCYNLR12	8/7/2024 6:24	45.1	35.0	2.1	17.8	88.7	88.7	-2.8	-2.8

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of August 31, 2024, there are 89 vertical wells, 0 horizontal collector, and 4 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - September 3, 4, 5, and 6, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	9/3/2024 8:02	49.3	37.8	0.0	12.9	83.8	84.1	-34.5	-34.4
KCLC0109	9/3/2024 7:54	58.1	41.5	0.0	0.4	89.6	89.5	-40.6	-40.8
KCLC0110	9/3/2024 7:50	56.8	42.1	0.1	1.0	105.4	105.5	-42.2	-42.2
KCLC0111	9/3/2024 8:35	53.2	40.1	1.0	5.7	69.2	69.1	-41.4	-41.0
KCLC0112	9/3/2024 8:29	57.8	40.3	0.0	1.9	89.0	89.0	-37.5	-37.1
KCLC0139	9/4/2024 9:00	57.0	40.3	0.0	2.7	128.6	128.8	-38.3	-39.1
KCLC0140	9/4/2024 9:03	56.4	42.3	0.0	1.3	127.4	127.6	-42.0	-42.5
KCLC0141	9/4/2024 8:22	48.0	37.8	0.0	14.2	99.1	99.1	-3.7	-3.7
KCLC0142	9/4/2024 8:33	27.1	30.0	0.0	42.9	99.0	99.0	-0.2	-0.2
KCLC0143	9/4/2024 7:56	50.4	38.8	0.0	10.8	109.5	109.5	-1.2	-1.3
KCLC0145	9/4/2024 7:15	45.9	34.7	1.8	17.6	62.1	62.0	-35.5	-35.1
KCLC0147	9/4/2024 7:24	51.6	36.4	2.1	9.9	68.4	68.4	-35.3	-35.4
KCLC0149	9/4/2024 7:09	48.5	38.8	0.0	12.7	102.0	102.0	-8.7	-8.7
KCLC0151	9/4/2024 7:28	58.2	41.5	0.0	0.3	121.2	121.0	-20.4	-26.2
KCLC0152	9/4/2024 7:31	46.8	39.4	0.0	13.8	113.9	113.9	-21.1	-20.2
KCLC0153	9/4/2024 7:02	47.7	37.0	0.7	14.6	98.6	98.6	-7.7	-4.6
KCLC0154	9/4/2024 7:06	48.5	38.5	0.0	13.0	102.1	102.0	-3.1	-3.0
KCLC0155	9/4/2024 7:18	54.5	38.6	0.0	6.9	114.0	114.2	-10.8	-12.4
KCLC0156	9/6/2024 8:17	59.8	40.0	0.0	0.2	82.4	86.4	-19.0	-31.8
KCLC0158	9/4/2024 9:14	42.0	37.3	0.0	20.7	126.7	126.8	-11.4	-4.6
KCLC0159	9/3/2024 10:46	46.0	37.0	0.0	17.0	110.4	109.1	-9.5	-4.5
KCLC0160	9/3/2024 9:36	55.9	41.4	0.0	2.7	83.1	83.1	-33.9	-39.5
KCLC0161	9/3/2024 10:30	51.6	39.6	0.0	8.8	115.1	115.3	-14.8	-15.8
KCYN0014	9/3/2024 8:06	54.4	33.5	0.0	12.1	96.0	97.3	-2.8	-3.1
KCYN0027	9/6/2024 10:23	59.3	37.7	0.3	2.7	98.7	99.1	-45.5	-45.0
KCYN0048	9/3/2024 10:03	46.6	39.7	0.0	13.7	118.8	118.8	-1.1	-1.1
KCYN0051	9/4/2024 9:32	56.1	41.6	0.0	2.3	124.4	124.6	-25.2	-27.2
KCYN0056	9/4/2024 12:22	53.7	40.4	0.0	5.9	125.8	125.8	-34.0	-34.0
KCYN0057	9/4/2024 12:31	50.2	39.1	1.2	9.5	95.9	96.0	-38.7	-37.8
KCYN0058	9/4/2024 12:13	55.0	41.9	0.0	3.1	99.7	99.3	-3.5	-3.5
KCYN0062	9/4/2024 11:26	54.7	39.7	0.0	5.6	121.5	121.7	-46.4	-46.3
KCYN0063	9/4/2024 11:32	43.3	37.4	0.0	19.3	116.1	100.9	-48.5	-5.5
KCYN0065	9/4/2024 8:56	59.6	38.1	0.0	2.3	126.7	126.9	-42.4	-42.6
KCYN0066	9/3/2024 8:57	56.4	39.6	0.0	4.0	124.0	124.0	-51.0	-51.0
KCYN0070	9/4/2024 11:58	53.2	39.4	0.0	7.4	112.4	112.3	-11.1	-13.7
KCYN0071	9/6/2024 8:49	56.7	40.7	0.0	2.6	128.9	128.9	-46.2	-46.2
KCYN0072	9/4/2024 11:40	46.3	36.7	0.0	17.0	112.4	112.6	-9.6	-7.3
KCYN0074	Offline for filling								
KCYN0075	9/4/2024 12:06	54.7	40.1	0.0	5.2	126.8	126.9	-23.6	-23.7
KCYN0076	9/3/2024 10:18	54.6	42.1	0.0	3.3	131.5	131.6	-32.7	-32.3
KCYN0076	9/3/2024 10:21	55.4	42.2	0.0	2.4	134.1	134.9	-33.2	-34.2
KCYN0078	Offline for filling								
KCYN0082	9/4/2024 9:11	46.1	37.9	0.0	16.0	127.8	128.1	-15.8	-13.2
KCYN0084	9/4/2024 8:01	55.9	40.7	0.0	3.4	121.6	122.7	-1.3	-2.5
KCYN0086	9/4/2024 7:44	53.2	39.7	0.9	6.2	127.4	127.2	-29.7	-30.1
KCYN0087	9/4/2024 12:40	54.0	42.7	0.0	3.3	142.6	142.6	-36.6	-36.8
KCYN0087	9/4/2024 12:42	53.9	43.2	0.0	2.9	142.5	142.5	-36.9	-37.5
KCYN0087	9/4/2024 12:50	CO was 0 ppm							
KCYN0088	9/5/2024 8:33	53.7	38.9	0.0	7.4	110.1	110.1	-42.5	-42.5
KCYN0089	9/5/2024 6:42	57.9	41.6	0.2	0.3	141.6	141.6	-34.2	-33.8
KCYN0089	9/5/2024 7:10	CO was 0 ppm							
KCYN0090	9/5/2024 7:46	54.0	41.0	0.0	5.0	105.5	105.2	-46.7	-46.3
KCYN0091	9/5/2024 7:28	58.8	40.8	0.0	0.4	137.7	137.7	-35.0	-34.6
KCYN0092	9/6/2024 8:31	57.9	39.7	0.0	2.4	108.2	108.2	-38.1	-38.1
KCYN0093	9/5/2024 8:00	58.8	39.6	0.1	1.5	76.9	77.1	-45.6	-45.6
KCYN0094	9/5/2024 8:27	58.1	41.3	0.0	0.6	126.0	126.0	-38.8	-38.4
KCYN0095	9/5/2024 8:08	58.6	39.5	0.0	1.9	107.9	108.0	-37.5	-37.5
KCYN0097	9/5/2024 7:43	58.1	41.5	0.0	0.4	120.6	120.6	-38.3	-37.4
KCYN0098	9/5/2024 8:22	58.0	39.8	0.0	2.2	125.5	125.6	-35.2	-35.2
KCYN0099	9/4/2024 11:50	51.3	40.1	0.0	8.6	129.1	130.2	-9.2	-12.6
KCYN0101	9/6/2024 8:55	49.4	36.9	0.0	13.7	99.5	99.5	-3.6	-3.6
KCYN0102	9/6/2024 8:52	43.9	37.1	0.0	19.0	107.2	107.2	-2.5	-1.9
KCYN0103	9/6/2024 8:59	47.5	38.6	0.0	13.9	118.2	118.2	-6.1	-6.1
KCYN0105	9/3/2024 8:39	55.4	40.7	0.4	3.5	79.0	79.2	-41.8	-40.9
KCYN0118	9/3/2024 10:33	55.4	42.4	0.0	2.2	115.9	116.4	-34.2	-35.3
KCYN0119	9/3/2024 10:12	49.7	40.1	0.0	10.2	129.7	129.8	-7.9	-7.8
KCYN0121	9/3/2024 9:41	55.1	42.3	0.0	2.6	108.6	108.6	-36.0	-36.0
KCYN0122	9/3/2024 10:08	53.5	41.8	0.0	4.7	111.1	112.0	-33.6	-33.7
KCYN0123	9/4/2024 12:19	44.6	35.1	2.5	17.8	130.0	125.8	-8.4	-2.9
KCYN0124	9/4/2024 9:29	54.7	39.9	0.0	5.4	126.7	126.8	-2.3	-2.9
KCYN0125	9/4/2024 9:21	54.3	40.1	0.0	5.6	125.4	125.5	-5.0	-4.9

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - September 3, 4, 5, and 6, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0126	9/4/2024 9:24	53.2	41.7	0.0	5.1	127.9	128.0	-29.4	-29.2
KCYN0127	9/4/2024 12:35	53.0	40.1	0.0	6.9	131.2	131.1	-12.2	-15.9
KCYN0128	9/4/2024 7:47	55.3	41.4	0.0	3.3	137.9	137.9	-30.2	-29.7
KCYN0128	9/4/2024 7:50	54.6	43.5	0.0	1.9	138.2	138.2	-30.0	-29.6
KCYN0129	9/4/2024 7:35	54.8	41.9	0.0	3.3	104.6	104.7	-33.9	-34.5
KCYN0130	9/3/2024 8:52	51.7	36.0	0.0	12.3	111.3	111.5	-4.9	-4.9
KCYN0131	9/3/2024 8:42	56.7	42.5	0.0	0.8	114.1	114.4	-41.0	-41.8
KCYN0133	9/6/2024 8:40	57.4	38.7	0.7	3.2	83.4	83.5	-46.2	-46.2
KCYN0134	9/4/2024 8:44	58.0	39.3	0.0	2.7	121.1	121.1	-41.6	-41.7
KCYN0135	9/4/2024 8:49	53.0	40.0	0.0	7.0	123.5	123.5	-40.3	-39.6
KCYN0162	9/3/2024 9:30	58.1	39.2	0.0	2.7	84.7	85.1	-38.8	-39.1
KCYN0163	9/3/2024 9:06	52.5	36.0	1.6	9.9	84.3	84.3	-13.7	-19.8
KCYN0164	9/4/2024 6:57	54.0	32.6	2.4	11.0	68.2	69.9	-39.0	-39.0
KCYN0165	9/3/2024 10:42	55.6	40.1	0.0	4.3	121.3	121.4	-12.3	-15.3
KCYN0166	9/3/2024 9:58	48.0	37.9	0.0	14.1	129.0	129.0	-3.9	-3.9
KCYN0167	9/3/2024 9:52	56.9	41.1	0.0	2.0	118.2	118.2	-35.9	-35.9
KCYN0168	9/3/2024 9:47	53.9	40.6	0.0	5.5	123.1	123.2	-12.8	-13.7
KCYN0169	9/3/2024 7:18	45.3	36.5	0.0	18.2	113.6	113.5	-3.5	-2.8
KCYN0170	9/3/2024 7:32	49.3	39.9	0.0	10.8	109.9	109.9	-12.4	-12.8
KCYN0171	9/3/2024 7:24	53.9	41.1	0.0	5.0	119.1	119.1	-30.4	-30.9
KCYN0172	9/3/2024 7:40	48.6	40.1	0.0	11.3	120.6	120.6	-11.5	-11.5
KCYNLR04	9/4/2024 8:38	53.9	37.1	0.7	8.3	112.0	112.0	-14.7	-14.5
KCYNLR08	9/4/2024 11:21	59.4	37.8	0.4	2.4	92.9	93.0	-54.7	-54.7
KCYNLR11	9/3/2024 7:59	43.2	34.2	3.1	19.5	61.7	63.4	-0.8	-0.4
KCYNLR12	9/3/2024 7:13	43.5	32.3	3.1	21.1	89.6	89.5	-3.0	-2.6

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of September 30, 2024, there are 89 vertical wells, 0 horizontal collector, and 4 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - October 1, 2, 3, 4, and 22, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	10/1/2024 7:23	47.9	36.8	0.0	15.3	91.6	91.2	-34.9	-29.9
KCLC0109	10/1/2024 7:10	57.9	42.0	0.0	0.1	95.2	95.2	-42.2	-42.1
KCLC0110	10/1/2024 7:06	56.4	42.0	0.1	1.5	109.5	109.7	-43.6	-43.1
KCLC0111	10/1/2024 7:41	50.3	38.4	2.0	9.3	71.7	71.6	-44.7	-44.1
KCLC0112	10/1/2024 7:44	57.2	42.5	0.0	0.3	88.0	87.8	-42.6	-42.8
KCLC0139	10/3/2024 8:59	55.4	43.2	0.0	1.4	119.4	119.4	-39.7	-39.2
KCLC0140	10/3/2024 8:56	55.7	41.6	0.0	2.7	99.5	99.7	-43.4	-42.8
KCLC0141	10/3/2024 7:45	53.8	38.9	0.1	7.2	99.2	99.4	-4.2	-6.1
KCLC0142	10/3/2024 7:49	35.6	32.3	0.0	32.1	99.8	100.1	-0.4	-0.3
KCLC0143	10/3/2024 8:19	41.8	36.0	0.0	22.2	110.3	110.1	-1.7	-1.4
KCLC0145	10/1/2024 10:39	36.9	25.7	2.6	34.8	96.8	96.9	-1.6	-3.3
KCLC0147	10/1/2024 10:15	54.6	37.0	0.8	7.6	92.6	92.8	-38.7	-38.6
KCLC0149	10/1/2024 10:55	48.8	37.9	0.0	13.3	110.0	110.1	-7.4	-7.4
KCLC0151	10/1/2024 10:18	56.6	39.4	0.0	4.0	120.6	120.6	-32.6	-32.6
KCLC0152	10/1/2024 10:21	46.8	38.0	0.0	15.2	115.3	115.3	-18.4	-17.7
KCLC0153	10/1/2024 11:00	56.2	40.4	0.0	3.4	99.6	99.6	-2.0	-3.0
KCLC0154	10/1/2024 10:52	54.7	38.6	0.0	6.7	98.9	102.3	-0.8	-2.2
KCLC0155	10/1/2024 10:36	53.3	38.4	0.0	8.3	115.3	115.3	-15.1	-17.0
KCLC0156	10/1/2024 10:31	51.0	33.6	2.3	13.1	91.9	92.0	-37.6	-37.7
KCLC0158	10/3/2024 8:00	48.2	39.9	0.0	11.9	116.2	116.4	-6.4	-6.3
KCLC0159	10/1/2024 10:04	56.5	40.2	0.0	3.3	109.3	110.9	-2.8	-5.7
KCLC0160	10/1/2024 9:00	40.8	30.1	0.2	28.9	82.9	82.8	-43.1	-42.6
KCLC0161	10/1/2024 9:24	47.1	39.0	0.0	13.9	117.6	116.4	-18.6	-14.1
KCYN0014	10/1/2024 7:30	48.3	32.5	0.0	19.2	103.1	95.5	-7.3	-5.4
KCYN0027	10/2/2024 9:47	55.1	38.8	0.4	5.7	94.3	94.4	-45.6	-46.2
KCYN0048	10/1/2024 9:45	47.6	39.7	0.0	12.7	121.0	121.0	-1.8	-1.8
KCYN0051	10/3/2024 8:35	56.0	41.4	0.0	2.6	93.8	93.8	-27.0	-26.6
KCYN0056	10/3/2024 9:27	55.4	43.0	0.0	1.6	125.3	125.4	-32.1	-31.2
KCYN0057	10/3/2024 9:48	41.1	33.6	3.6	21.7	96.7	94.7	-33.9	-13.0
KCYN0058	10/3/2024 9:22	52.1	39.3	0.2	8.4	124.9	124.9	-32.0	-31.1
KCYN0062	10/2/2024 7:03	52.3	38.8	0.1	8.8	119.3	119.2	-47.6	-47.6
KCYN0062	10/2/2024 7:03	52.3	38.8	0.1	8.8	119.3	119.2	-47.6	-47.6
KCYN0063	10/2/2024 7:07	56.8	41.6	0.0	1.6	99.5	110.9	-0.8	-4.6
KCYN0065	10/4/2024 6:41	51.7	35.7	2.0	10.6	80.4	80.4	-43.2	-43.7
KCYN0066	10/1/2024 8:40	57.5	40.1	0.0	2.4	125.5	125.5	-52.7	-52.6
KCYN0070	10/2/2024 8:52	50.2	39.2	0.0	10.6	112.1	112.1	-14.7	-14.7
KCYN0071	10/2/2024 10:21	53.0	40.4	0.0	6.6	129.1	129.0	-46.3	-46.2
KCYN0072	10/2/2024 7:11	56.7	41.6	0.0	1.7	110.1	110.6	-3.4	-4.5
KCYN0074	Offline for filling								
KCYN0075	10/3/2024 9:13	56.7	40.7	0.0	2.6	120.9	121.3	-22.3	-22.2
KCYN0076	10/1/2024 9:12	55.0	41.4	0.0	3.6	140.6	140.5	-36.9	-37.5
KCYN0076	10/1/2024 9:20	CO was 0 ppm							
KCYN0078	10/2/2024 7:44	58.9	40.4	0.0	0.7	81.7	81.8	0.0	-0.1
KCYN0082	10/3/2024 7:56	54.8	40.7	0.0	4.5	118.8	118.8	-10.7	-11.8
KCYN0084	10/3/2024 8:31	51.5	40.4	0.0	8.1	124.9	124.9	-3.3	-3.2
KCYN0086	10/3/2024 9:38	52.6	38.8	0.7	7.9	127.2	126.2	-26.0	-26.0
KCYN0087	10/2/2024 7:45	55.9	41.7	0.0	2.4	142.3	142.4	-32.0	-36.9
KCYN0087	10/2/2024 7:47	CO was 0 ppm							
KCYN0088	10/2/2024 10:41	52.9	36.0	0.0	11.1	110.1	110.2	-44.7	-44.9
KCYN0089	10/2/2024 9:23	53.7	40.0	0.5	5.8	140.7	140.7	-35.2	-34.8
KCYN0089	10/2/2024 9:25	CO was 0 ppm							
KCYN0090	10/2/2024 9:13	52.4	40.1	0.0	7.5	106.4	106.2	-47.6	-47.5
KCYN0091	10/2/2024 9:20	55.7	41.1	0.0	3.2	130.5	129.4	-35.4	-35.4
KCYN0092	10/2/2024 9:42	56.1	39.0	0.1	4.8	125.9	125.9	-38.5	-39.2
KCYN0093	10/2/2024 10:47	57.4	37.6	0.0	5.0	89.7	89.9	-45.1	-44.5
KCYN0094	10/2/2024 9:33	57.1	40.6	0.0	2.3	125.9	125.9	-39.4	-39.4
KCYN0095	10/2/2024 10:51	57.5	39.8	0.0	2.7	107.4	107.5	-38.9	-38.9
KCYN0097	10/2/2024 9:09	55.4	39.8	0.0	4.8	120.8	120.9	-39.3	-39.3
KCYN0098	10/2/2024 9:29	55.8	39.9	0.0	4.3	125.8	125.8	-36.5	-36.5
KCYN0099	10/2/2024 8:48	49.4	38.6	0.0	12.0	129.9	130.0	-15.5	-15.5
KCYN0101	10/2/2024 10:14	51.1	36.1	0.0	12.8	101.9	101.9	-3.0	-3.0
KCYN0102	10/2/2024 10:18	50.7	36.1	0.0	13.2	118.0	118.1	-6.0	-5.9
KCYN0103	10/2/2024 10:25	48.5	37.7	0.0	13.8	118.3	118.2	-5.8	-5.7
KCYN0105	10/1/2024 8:27	54.6	38.2	1.1	6.1	84.1	84.4	-44.1	-44.7
KCYN0118	10/1/2024 9:18	55.4	40.7	0.0	3.9	118.3	118.0	-38.6	-38.5
KCYN0119	10/1/2024 9:08	48.3	39.1	0.0	12.6	130.5	130.5	-9.5	-9.5
KCYN0121	10/1/2024 9:28	54.6	41.6	0.0	3.8	114.2	114.4	-40.1	-40.1
KCYN0122	10/1/2024 9:04	54.4	39.4	0.0	6.2	114.1	114.1	-38.3	-38.3
KCYN0123	10/3/2024 9:18	42.7	34.5	3.4	19.4	122.1	122.3	-1.0	-1.0
KCYN0124	10/3/2024 8:15	51.2	39.9	0.0	8.9	113.8	113.8	-4.8	-4.7
KCYN0125	10/3/2024 8:45	55.0	40.9	0.0	4.1	122.6	122.6	-4.0	-4.0

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - October 1, 2, 3, 4, and 22, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0126	10/3/2024 8:41	53.1	40.4	0.0	6.5	125.8	125.8	-30.1	-30.6
KCYN0127	10/3/2024 9:52	52.3	40.6	0.0	7.1	130.7	130.5	-18.9	-18.9
KCYN0128	10/3/2024 9:36	51.1	37.7	0.7	10.5	130.3	130.1	-25.5	-25.9
KCYN0129	10/1/2024 10:11	54.5	39.6	0.4	5.5	108.2	108.2	-38.2	-38.1
KCYN0130	10/1/2024 7:34	47.9	35.5	0.0	16.6	112.0	111.7	-6.7	-6.1
KCYN0131	10/1/2024 7:38	56.7	42.6	0.0	0.7	114.9	115.3	-44.1	-43.9
KCYN0133	10/2/2024 7:54	55.9	41.2	0.4	2.5	88.2	88.3	-43.1	-43.1
KCYN0134	10/22/2024 9:49	61.3	38.7	0.0	0.0	67.3	67.3	-43.0	-43.0
KCYN0135	10/2/2024 9:54	49.0	39.9	0.0	11.1	128.1	128.1	-40.5	-40.5
KCYN0162	10/1/2024 8:54	46.2	33.9	3.3	16.6	82.0	82.2	-43.4	-43.4
KCYN0163	10/1/2024 8:49	30.8	28.4	2.1	38.7	95.3	95.2	-38.0	-38.0
KCYN0164	10/1/2024 9:55	55.7	40.2	0.0	4.1	93.0	93.2	-43.5	-42.7
KCYN0165	10/1/2024 9:59	49.0	38.5	0.0	12.5	121.1	121.2	-20.8	-18.0
KCYN0166	10/1/2024 9:41	49.8	38.5	0.0	11.7	129.1	129.1	-3.3	-3.3
KCYN0167	10/1/2024 9:37	55.9	40.4	0.0	3.7	118.6	118.6	-38.6	-38.6
KCYN0168	10/1/2024 9:32	50.7	39.9	0.0	9.4	124.0	124.3	-20.3	-20.9
KCYN0169	10/1/2024 6:46	49.7	39.6	0.0	10.7	113.6	113.7	-1.9	-1.9
KCYN0170	10/1/2024 6:53	47.4	39.5	0.0	13.1	110.4	110.5	-15.0	-14.0
KCYN0171	10/1/2024 6:50	51.7	41.6	0.0	6.7	119.5	119.5	-33.4	-34.5
KCYN0172	10/1/2024 6:58	46.8	39.3	0.0	13.9	121.1	121.1	-12.2	-11.3
KCYNLR04	10/2/2024 9:58	51.5	35.7	1.2	11.6	99.3	99.3	-16.0	-17.5
KCYNLR08	10/1/2024 11:21	55.0	37.9	0.8	6.3	94.1	94.1	-55.3	-55.3
KCYNLR11	10/1/2024 7:20	50.2	31.8	0.1	17.9	75.8	75.4	-0.7	-0.3
KCYNLR12	10/1/2024 6:40	44.6	33.8	2.7	18.9	89.0	88.6	-1.7	-1.5

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of October 31, 2024, there are 89 vertical wells, 0 horizontal collector, and 4 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - November 1, 4, 5, 6, and 11, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	11/1/2024 7:13	52.4	38.3	0.0	9.3	74.1	74.6	-27.0	-30.1
KCLC0109	11/1/2024 7:06	59.3	40.7	0.0	0.0	84.7	84.7	-42.0	-42.0
KCLC0110	11/1/2024 7:01	57.3	41.6	0.2	0.9	107.4	107.6	-42.6	-42.8
KCLC0111	11/4/2024 7:16	49.5	38.0	2.8	9.7	52.7	52.7	-42.1	-41.7
KCLC0112	11/4/2024 7:13	57.2	42.4	0.0	0.4	78.9	79.0	-40.5	-40.9
KCLC0139	11/5/2024 9:05	57.0	42.9	0.0	0.1	116.6	116.6	-39.9	-38.9
KCLC0140	11/5/2024 9:02	57.2	42.2	0.0	0.6	81.4	81.7	-44.1	-44.9
KCLC0141	11/5/2024 8:53	41.7	35.5	0.0	22.8	98.3	98.4	-5.9	-4.2
KCLC0142	11/5/2024 8:49	30.1	31.0	0.0	38.9	92.2	92.4	-0.1	-0.1
KCLC0143	11/5/2024 6:25	43.4	35.1	0.0	21.5	105.4	105.4	-0.9	-1.0
KCLC0145	11/4/2024 9:25	34.9	30.3	2.1	32.7	67.7	67.8	-3.8	-24.3
KCLC0147	11/4/2024 8:40	53.3	37.2	1.9	7.6	65.7	65.7	-37.6	-37.6
KCLC0149	11/4/2024 9:29	47.1	38.1	0.0	14.8	94.1	94.0	-6.5	-3.1
KCLC0151	11/4/2024 8:36	55.8	41.6	0.0	2.6	120.1	120.4	-30.9	-30.9
KCLC0152	11/4/2024 8:43	53.0	39.1	0.2	7.7	113.0	113.7	-9.8	-11.8
KCLC0153	11/4/2024 9:16	58.0	40.5	0.0	1.5	98.6	98.7	-2.1	-3.3
KCLC0154	11/4/2024 9:32	41.6	36.5	0.0	21.9	102.4	101.9	-3.8	-3.0
KCLC0155	11/4/2024 9:21	47.4	38.8	0.0	13.8	114.7	114.7	-18.6	-13.0
KCLC0156	11/4/2024 9:03	56.8	39.2	0.4	3.6	59.0	60.6	-35.0	-35.2
KCLC0158	11/5/2024 8:36	48.9	39.4	0.0	11.7	114.2	114.2	-5.3	-5.3
KCLC0159	11/4/2024 8:32	49.7	38.0	0.0	12.3	57.7	57.2	-7.3	-5.0
KCLC0160	11/4/2024 7:33	54.6	40.2	0.2	5.0	56.0	55.0	-40.4	-40.7
KCLC0161	11/4/2024 8:03	56.5	43.5	0.0	0.0	110.0	111.3	-7.2	-10.9
KCYN0014	11/1/2024 7:21	59.2	31.3	0.0	9.5	95.5	96.3	-1.4	-0.9
KCYN0027	11/6/2024 7:27	57.3	39.7	0.4	2.6	63.1	63.2	-47.2	-47.1
KCYN0048	11/4/2024 7:49	45.2	39.0	0.0	15.8	111.4	111.2	-1.5	-1.5
KCYN0051	11/5/2024 6:32	58.2	41.5	0.0	0.3	91.2	91.2	-25.6	-26.8
KCYN0056	11/5/2024 8:17	56.7	41.3	0.0	2.0	124.3	124.1	-30.6	-31.2
KCYN0057	11/5/2024 6:49	52.0	38.2	2.0	7.8	64.2	64.3	-38.4	-35.9
KCYN0058	11/5/2024 8:22	51.7	39.8	0.6	7.9	125.2	125.3	-31.4	-31.4
KCYN0062	11/4/2024 6:40	48.7	36.9	0.0	14.4	119.6	119.6	-45.9	-45.9
KCYN0063	11/4/2024 6:45	43.0	35.9	0.0	21.1	117.2	110.9	-3.4	-1.1
KCYN0065	11/5/2024 8:59	48.7	36.7	2.2	12.4	68.5	69.8	-44.6	-45.2
KCYN0066	11/4/2024 7:00	56.4	41.8	0.0	1.8	124.6	124.6	-51.3	-51.2
KCYN0070	11/6/2024 6:58	52.5	38.2	0.1	9.2	110.3	110.3	-14.8	-14.8
KCYN0071	11/6/2024 7:45	56.0	42.4	0.0	1.6	127.8	127.9	-47.7	-47.1
KCYN0072	11/4/2024 6:48	51.8	39.2	0.0	9.0	109.1	109.2	-6.6	-7.4
KCYN0074	11/11/2024 9:35	61.3	38.0	0.2	0.5	110.2	110.2	-39.3	-39.3
KCYN0075	11/5/2024 6:41	57.1	41.3	0.2	1.4	117.6	118.0	-21.9	-22.7
KCYN0076	11/4/2024 8:20	56.9	42.6	0.0	0.5	140.0	139.9	-34.6	-32.0
KCYN0076	11/4/2024 8:30	CO was 0 ppm							
KCYN0078	11/11/2024 9:40	58.3	40.3	0.2	1.2	113.8	113.9	-38.6	-38.6
KCYN0082	11/5/2024 8:44	48.7	39.3	0.0	12.0	118.3	118.3	-13.0	-13.0
KCYN0084	11/5/2024 6:19	52.1	38.5	0.1	9.3	73.4	73.6	-3.2	-3.3
KCYN0086	11/4/2024 8:56	53.8	40.6	0.0	5.6	124.8	125.3	-21.1	-21.8
KCYN0087	11/5/2024 9:21	57.6	42.1	0.0	0.3	141.6	141.6	-37.1	-35.1
KCYN0087	11/5/2024 9:30	CO was 0 ppm							
KCYN0088	11/6/2024 7:38	50.7	40.7	0.1	8.5	109.2	109.2	-44.5	-46.3
KCYN0089	11/4/2024 8:51	57.5	41.2	0.1	1.2	139.7	139.6	-36.2	-36.2
KCYN0089	11/4/2024 8:55	CO was 0 ppm							
KCYN0090	11/6/2024 7:01	53.9	38.5	0.0	7.6	99.1	99.0	-48.3	-47.8
KCYN0091	11/6/2024 8:16	58.7	40.5	0.0	0.8	130.0	129.8	-35.8	-35.7
KCYN0092	11/6/2024 7:23	53.6	37.3	2.1	7.0	106.3	107.0	-42.9	-41.0
KCYN0093	11/5/2024 9:45	53.5	38.0	0.5	8.0	106.6	107.2	-41.7	-42.7
KCYN0094	11/6/2024 7:57	58.8	41.2	0.0	0.0	125.2	125.2	-42.5	-42.5
KCYN0095	11/5/2024 9:47	58.9	40.3	0.1	0.7	108.2	108.2	-42.4	-42.5
KCYN0097	11/6/2024 7:04	58.9	40.9	0.0	0.2	119.5	119.5	-40.2	-40.2
KCYN0098	11/1/2024 10:54	59.7	40.2	0.0	0.1	125.3	125.3	-33.9	-33.9
KCYN0099	11/4/2024 6:54	51.0	40.4	0.0	8.6	126.5	127.6	-9.9	-11.8
KCYN0101	11/6/2024 7:48	52.5	38.7	1.7	7.1	94.7	95.1	-1.2	-1.2
KCYN0102	11/6/2024 7:51	54.8	39.1	0.0	6.1	100.3	100.6	-1.2	-1.3
KCYN0103	11/6/2024 7:43	53.1	37.8	0.6	8.5	109.0	109.1	-3.0	-3.0
KCYN0105	11/4/2024 7:20	57.2	42.5	0.1	0.2	72.1	72.2	-42.9	-42.0
KCYN0118	11/4/2024 7:59	56.0	44.0	0.0	0.0	113.5	113.6	-37.9	-34.2
KCYN0119	11/4/2024 8:13	49.5	40.4	0.0	10.1	129.9	129.9	-8.7	-8.7
KCYN0121	11/4/2024 7:35	57.0	42.5	0.0	0.5	102.4	102.7	-37.6	-37.6
KCYN0122	11/4/2024 8:06	56.7	43.3	0.0	0.0	109.4	109.5	-38.3	-36.3
KCYN0123	11/5/2024 9:58	52.8	38.4	0.2	8.6	120.6	119.5	-2.6	-2.5
KCYN0124	11/5/2024 6:36	48.7	39.0	0.0	12.3	112.9	112.9	-5.4	-5.0
KCYN0125	11/5/2024 8:32	55.8	41.0	0.0	3.2	113.9	114.6	-3.9	-3.0
KCYN0126	11/5/2024 8:25	53.4	40.1	0.0	6.5	125.2	125.3	-31.4	-31.4
KCYN0127	11/5/2024 6:52	56.3	41.3	0.0	2.4	130.4	130.5	-19.7	-19.7
KCYN0128	11/4/2024 8:58	55.6	39.0	0.6	4.8	129.4	129.3	-21.5	-22.1
KCYN0129	11/4/2024 8:45	51.2	40.5	0.0	8.3	103.3	104.2	-36.6	-35.9
KCYN0130	11/4/2024 7:06	50.7	35.7	0.0	13.6	110.1	110.1	-5.1	-5.1

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - November 1, 4, 5, 6, and 11, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0131	11/4/2024 7:10	57.5	41.4	0.0	1.1	111.6	111.3	-43.4	-41.9
KCYN0133	11/5/2024 9:32	58.7	40.6	0.0	0.7	86.5	86.5	-41.0	-41.0
KCYN0134	11/5/2024 9:16	57.2	37.9	0.7	4.2	60.5	60.5	-45.1	-44.7
KCYN0135	11/6/2024 7:33	51.9	40.4	0.0	7.7	126.6	126.6	-41.5	-42.0
KCYN0162	11/4/2024 7:28	50.8	37.5	2.1	9.6	63.1	63.2	-40.9	-40.8
KCYN0163	11/4/2024 7:25	43.6	33.8	0.9	21.7	62.7	62.7	-17.4	-17.5
KCYN0164	11/4/2024 8:25	49.6	38.6	2.1	9.7	66.4	66.6	-41.6	-41.0
KCYN0165	11/4/2024 8:28	56.2	40.8	0.0	3.0	120.4	121.3	-10.3	-14.6
KCYN0166	11/4/2024 7:45	45.9	38.1	0.0	16.0	128.7	128.5	-4.6	-4.0
KCYN0167	11/4/2024 7:42	57.1	41.7	0.0	1.2	117.8	117.8	-36.9	-36.3
KCYN0168	11/4/2024 7:39	54.2	41.5	0.0	4.3	121.4	122.5	-17.2	-19.8
KCYN0169	11/1/2024 6:38	50.4	38.8	0.0	10.8	113.3	113.2	-1.9	-1.9
KCYN0170	11/1/2024 6:46	49.4	39.4	0.0	11.2	110.5	110.5	-12.9	-12.9
KCYN0171	11/1/2024 6:42	52.2	40.6	0.0	7.2	119.6	119.6	-36.2	-36.8
KCYN0172	11/1/2024 6:50	50.2	40.2	0.0	9.6	121.1	121.2	-9.1	-10.0
KCYNLR04	11/5/2024 9:12	52.2	35.5	1.7	10.6	98.3	98.3	-20.1	-18.4
KCYNLR08	11/4/2024 6:35	59.4	36.4	1.0	3.2	75.1	75.1	-52.5	-52.4
KCYNLR11	11/1/2024 7:11	60.7	39.1	0.0	0.2	45.3	46.0	-0.4	-0.4
KCYNLR12	11/1/2024 6:32	50.9	37.6	1.2	10.3	83.8	84.5	-0.7	-1.0

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of November 30, 2024, there are 89 vertical wells, 0 horizontal collector, and 4 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report -December 2, 3, 4, 7, 9, 10 and 12, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	12/10/2024 8:44	48.80	36.70	0.00	14.50	75.80	75.50	-33.01	-28.20
KCLC0109	12/10/2024 8:28	59.30	40.70	0.00	0.00	86.40	86.40	-42.33	-42.30
KCLC0110	12/10/2024 8:23	57.90	41.10	0.20	0.80	102.80	103.40	-43.76	-42.75
KCLC0111	12/10/2024 7:44	48.20	36.20	2.80	12.80	41.10	41.00	-43.37	-35.97
KCLC0112	12/10/2024 7:51	58.20	40.30	0.30	1.20	64.40	64.50	-41.77	-41.27
KCLC0139	12/4/2024 10:41	56.40	42.60	0.00	1.00	119.30	119.50	-40.39	-39.18
KCLC0140	12/4/2024 10:38	54.60	40.40	0.70	4.30	83.30	83.30	-43.93	-43.96
KCLC0141	12/4/2024 10:25	50.30	38.70	0.00	11.00	98.60	98.80	-3.88	-5.96
KCLC0142	12/4/2024 10:29	30.50	30.40	0.00	39.10	96.80	97.00	-0.47	-0.44
KCLC0143	12/9/2024 8:50	46.60	36.90	0.00	16.50	104.40	104.10	-0.49	-0.43
KCLC0145	12/7/2024 7:54	47.80	35.50	1.30	15.40	55.40	54.50	-34.92	-34.94
KCLC0147	12/10/2024 10:27	53.20	35.60	2.00	9.20	61.40	61.40	-37.97	-37.38
KCLC0149	12/7/2024 8:00	57.80	40.60	0.10	1.50	75.90	78.50	-3.15	-7.30
KCLC0151	12/10/2024 10:29	58.10	41.20	0.00	0.70	120.50	120.50	-32.94	-33.00
KCLC0152	12/10/2024 10:32	54.00	39.30	0.00	6.70	112.80	112.80	-10.78	-11.45
KCLC0153	12/7/2024 9:02	59.50	39.00	0.20	1.30	99.00	99.20	-3.82	-5.22
KCLC0154	12/7/2024 7:57	53.00	39.20	0.10	7.70	99.50	100.50	-1.82	-2.80
KCLC0155	12/7/2024 7:52	58.60	39.70	0.20	1.50	113.90	114.10	-9.42	-9.39
KCLC0156	12/7/2024 9:04	58.30	40.40	0.20	1.10	72.60	68.30	-35.29	-36.09
KCLC0158	12/9/2024 8:42	53.40	40.20	0.00	6.40	109.90	111.30	-4.32	-7.12
KCLC0159	12/2/2024 7:55	57.60	39.90	0.00	2.50	106.70	108.20	-6.93	-7.92
KCLC0160	12/10/2024 9:48	45.80	38.10	0.00	16.10	56.90	56.80	-41.53	-41.55
KCLC0161	12/2/2024 7:38	48.40	38.40	0.00	13.20	114.30	114.40	-18.33	-18.31
KCYN0014	12/10/2024 7:20	52.70	32.10	0.00	15.20	98.70	98.60	-2.96	-2.95
KCYN0027	12/3/2024 13:41	57.20	39.90	0.50	2.40	84.40	84.10	-45.82	-45.96
KCYN0048	12/10/2024 10:03	48.60	39.70	0.00	11.70	106.10	106.40	-0.77	-0.77
KCYN0051	12/10/2024 11:13	57.20	40.70	0.00	2.10	91.20	91.20	-24.20	-23.07
KCYN0056	12/10/2024 11:10	53.90	38.70	0.20	7.20	125.30	125.30	-31.58	-30.90
KCYN0057	12/3/2024 13:02	51.40	38.70	1.60	8.30	77.10	78.10	-32.56	-36.19
KCYN0058	12/9/2024 9:00	51.20	40.40	0.00	8.40	66.30	66.80	-32.29	-33.48
KCYN0062	12/4/2024 9:06	45.80	37.00	0.00	17.20	121.40	107.70	-48.01	-13.06
KCYN0063	12/4/2024 9:11	56.80	40.50	0.00	2.70	115.00	116.50	-1.63	-4.13
KCYN0065	12/4/2024 10:34	49.80	37.30	0.90	12.00	77.00	77.70	-43.92	-43.46
KCYN0066	12/10/2024 7:15	59.80	39.30	0.00	0.90	124.30	124.30	-50.54	-50.52
KCYN0070	12/10/2024 11:45	54.40	38.30	0.00	7.30	111.20	111.20	-8.91	-10.61
KCYN0071	12/4/2024 9:19	54.30	41.10	0.00	4.60	128.30	128.30	-47.78	-47.35
KCYN0072	12/4/2024 9:02	41.90	34.90	0.00	23.20	110.60	110.00	-11.03	-7.27
KCYN0074	12/4/2024 9:49	57.30	41.60	0.40	0.70	113.80	113.90	-41.10	-40.08
KCYN0075	12/10/2024 10:51	57.70	40.80	0.00	1.50	114.60	114.90	-23.26	-23.23
KCYN0076	12/2/2024 7:28	59.00	40.90	0.10	0.00	140.20	140.40	-34.89	-35.81
KCYN0076	12/2/2024 9:10	CO was 0 ppm							
KCYN0076	12/12/2024 7:39	57.40	42.60	0.00	0.00	140.20	140.30	-34.95	-34.69
KCYN0076	12/12/2024 7:45	CO was 0 ppm							
KCYN0078	12/4/2024 10:07	55.60	44.10	0.00	0.30	109.40	109.40	-41.03	-41.05
KCYN0082	12/9/2024 8:39	50.70	38.10	0.00	11.20	118.00	118.00	-13.08	-13.92
KCYN0084	12/9/2024 8:53	49.60	39.10	0.00	11.30	123.00	123.10	-3.57	-3.52
KCYN0086	12/10/2024 10:41	54.10	38.60	0.90	6.40	126.80	126.80	-19.11	-19.12
KCYN0087	12/4/2024 9:58	56.80	41.20	0.10	1.90	141.20	141.50	-35.82	-32.09
KCYN0087	12/12/2024 7:56	57.40	42.60	0.00	0.00	141.40	141.40	-34.94	-31.69
KCYN0087	12/12/2024 8:00	CO was 0 ppm							
KCYN0088	12/4/2024 8:45	56.60	36.50	0.20	6.70	109.10	109.20	-42.46	-44.97
KCYN0089	12/2/2024 7:46	58.30	41.70	0.00	0.00	139.00	139.00	-34.75	-34.24
KCYN0089	12/2/2024 9:45	CO was 0 ppm							
KCYN0090	12/3/2024 14:05	51.80	38.10	0.10	10.00	102.30	102.30	-47.56	-47.52
KCYN0091	12/2/2024 7:49	58.50	41.50	0.00	0.00	137.30	137.30	-32.94	-32.88
KCYN0091	12/2/2024 9:30								
KCYN0091	12/3/2024 14:11	52.00	38.10	0.10	9.80	120.40	120.40	-39.48	-39.47
KCYN0092	12/4/2024 9:44	58.80	41.20	0.00	0.00	107.40	107.40	-40.20	-40.17
KCYN0093	12/4/2024 9:47	59.00	38.50	0.00	2.50	85.40	109.50	-40.21	-40.25
KCYN0094	12/4/2024 9:32	58.70	41.30	0.00	0.00	125.00	125.10	-40.58	-41.55
KCYN0095	12/4/2024 9:38	57.90	39.40	0.80	1.90	107.50	107.50	-40.95	-39.96
KCYN0097	12/10/2024 11:40	58.10	41.00	0.00	0.90	120.10	120.20	-39.45	-39.44
KCYN0098	12/9/2024 8:16	59.20	40.70	0.00	0.10	117.50	117.70	-35.47	-35.48
KCYN0099	12/4/2024 9:15	47.30	38.50	0.00	14.20	129.20	128.30	-15.50	-11.84
KCYN0101	12/4/2024 8:54	55.80	37.50	0.00	6.70	88.40	93.00	-1.57	-6.29
KCYN0102	12/4/2024 8:58	51.40	37.40	0.00	11.20	103.80	104.90	-1.95	-2.70
KCYN0103	12/4/2024 8:50	55.70	39.70	0.00	4.60	110.60	113.80	-2.97	-4.11
KCYN0105	12/10/2024 7:40	58.30	41.10	0.20	0.40	60.80	61.00	-42.60	-42.63
KCYN0118	12/2/2024 7:41	56.00	41.50	0.00	2.50	110.70	110.60	-37.85	-35.95
KCYN0119	12/2/2024 7:31	53.10	39.10	0.00	7.80	129.90	129.90	-8.57	-9.02
KCYN0121	12/10/2024 9:52	56.80	43.20	0.00	0.00	104.20	104.10	-38.40	-38.38

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report -December 2, 3, 4, 7, 9, 10 and 12, 2024

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0122	12/2/2024 7:35	58.10	41.50	0.00	0.40	110.00	109.70	-38.37	-37.98
KCYN0123	12/10/2024 11:03	49.90	36.80	0.80	12.50	111.80	107.50	-7.78	-6.91
KCYN0124	12/9/2024 8:46	54.00	39.50	0.00	6.50	112.40	112.40	-3.52	-3.95
KCYN0125	12/10/2024 11:23	53.80	40.10	0.00	6.10	116.00	116.00	-2.11	-2.12
KCYN0126	12/10/2024 11:16	53.80	40.20	0.00	6.00	125.30	125.30	-31.05	-31.04
KCYN0127	12/9/2024 8:57	51.90	39.80	0.70	7.60	129.70	129.60	-19.85	-20.25
KCYN0128	12/10/2024 10:38	52.90	37.70	1.60	7.80	124.00	124.30	-21.17	-21.64
KCYN0129	12/10/2024 10:22	54.20	39.60	0.60	5.60	107.60	107.60	-37.27	-37.74
KCYN0130	12/10/2024 7:29	51.50	34.00	0.00	14.50	109.70	109.50	-4.72	-4.32
KCYN0131	12/10/2024 7:33	58.70	41.10	0.00	0.20	111.20	111.30	-41.66	-42.12
KCYN0133	12/4/2024 10:04	53.90	40.00	1.20	4.90	108.90	109.00	-40.22	-39.43
KCYN0134	12/4/2024 10:11	50.90	37.40	1.90	9.80	73.80	74.00	-44.30	-44.70
KCYN0135	12/4/2024 10:19	50.90	38.40	0.10	10.60	126.80	126.70	-40.68	-41.27
KCYN0162	12/10/2024 9:43	56.40	39.90	0.70	3.00	62.90	62.80	-42.12	-41.76
KCYN0163	12/10/2024 7:55	58.50	35.10	1.00	5.40	69.00	68.10	-37.22	-33.94
KCYN0164	12/2/2024 8:02	56.90	39.10	0.80	3.20	59.50	59.40	-41.98	-41.11
KCYN0165	12/2/2024 7:58	54.50	40.50	0.00	5.00	120.30	120.20	-19.67	-19.64
KCYN0166	12/10/2024 10:21	49.50	39.30	0.00	11.20	127.70	127.60	-2.95	-2.95
KCYN0167	12/10/2024 9:59	57.60	40.20	0.00	2.20	118.00	118.00	-37.61	-37.19
KCYN0168	12/10/2024 9:55	49.60	39.10	0.00	11.30	121.80	121.90	-22.66	-22.63
KCYN0169	12/2/2024 8:55	46.40	37.30	0.00	16.30	114.20	114.10	-2.43	-1.89
KCYN0170	12/2/2024 8:58	48.10	39.30	0.00	12.60	111.40	111.50	-13.53	-12.10
KCYN0171	12/2/2024 9:02	50.10	40.20	0.00	9.70	120.10	120.10	-39.50	-40.68
KCYN0172	12/2/2024 9:08	46.10	38.50	0.00	15.40	121.80	121.80	-11.42	-9.64
KCYNLR04	12/3/2024 13:08	52.30	34.90	1.70	11.10	97.80	97.70	-19.19	-21.05
KCYNLR08	12/10/2024 7:08	58.10	35.50	1.40	5.00	70.00	70.00	-53.83	-53.81
KCYNLR11	12/10/2024 8:39	52.60	29.30	1.10	17.00	47.00	47.00	-1.03	-1.08
KCYNLR12	12/2/2024 9:14	43.30	35.00	2.10	19.60	89.20	88.20	-3.04	-2.13

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of December 31, 2024, there are 89 vertical wells, 0 horizontal collector, and 4 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

APPENDIX J

BAAQMD CORRESPONDENCE

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

August 29, 2024 (via email: compliance@baaqmd.gov)

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105
Attn: Title V Reports

Re: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812, Section I.F Title V, 10 and 30-Day written report

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting this 10 and 30-day Title V written report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for KCRDF.

A breakdown report was submitted on August 26, 2024, at ~3:05 PM by KCRDF because the landfill gas collection and control system (GCCS) temporarily shut down on August 26, 2024, at ~2:02 PM during PG&E unplanned power outage event. The flare was online on August 26, 2024, at ~2:40 PM. Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, KCRDF submitted the request for Breakdown Relief from BAAQMD for the August 26, 2024, PG&E power outage via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on August 26, 2024 and was assigned RCA number 200588 (see Attachment A for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA number 200588 did not result in emissions and do not qualify as non-compliance. KCRDF believes that it complied with the Title V permit conditions and safety protocols. KCRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. KCRDF's downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control.

KCRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, KCRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Mike Tejero

Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- Copy of KCRDF RCA Form -Number 200588

Attachment A

Copy of KCRDF RCA Form -Number 200588

From: RCA Notification
To: Phadnis, Rajan
Cc: Erin Phillips; Azevedo, Becky; Colline, Christian; Tejero, Michael
Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 8.26.2024
Date: Monday, August 26, 2024 3:23:06 PM

ID# 200588

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Monday, August 26, 2024 3:05 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Erin Phillips <ephillips@baaqmd.gov>; Phadnis, Rajan <rphadnis@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Tejero, Michael <mtejero@wm.com>
Subject: KCRDF A1812-RCA for PG&E power outage on 8.26.2024

I am attaching the RCA notification form for PG&E power outage event on 8.26.2024 at ~1:20 PM, at Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
EP Specialist
For Kirby Canyon Recycling and Disposal Facility

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

August 26, 2024 (via email rca@baaqmd.gov)

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

Re: Reportable Compliance Activity (RCA) Notification
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on August 26, 2024, ~ 1:20 PM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on August 26, 2024, around ~3:00 PM.

Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control and KCRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as KCRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;

2. The breakdown is not the result of improper maintenance;

3. The breakdown does not create a public nuisance;

4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and

5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On August 26, 2024, the GCCS was back online at ~2:10 PM. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form KCRDF Facility A1812

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable Compliance Activity (RCA)

See back of form for instructions →

1. ☒ **BREAKDOWN RELIEF:** ***District Use Only*** **BREAKDOWN REFERENCE #:**

2. NA ☐ **MONITOR EXCESS EMISSION or EXCURSION:** ***District Use Only*** **REFERENCE#:**

3. NA ☐ **MONITOR IS INOPERATIVE:** ***District Use Only*** **REFERENCE#:**

4. NA ☐ **PRESSURE RELIEF DEVICE (PRD):** ***District Use Only*** **PRD REFERENCE#:**

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Kirby Canyon Recycling & Disposal Facility	Site #	A1812
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1
Reported by	R Phadnis	Phone #	510-875-9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	8/26/2024 at~1:20 PM	Clear Time	8/26/2024 at~2:10 PM

Monitor/device type(s): ☐ ►CEM ☐ ►GLM ☐ ►Parametric ☐ ►PRD ☐ ►Non-monitor

Monitor description(s):

Parameter(s) exceeded or not functioning due to inoperation

☐ ►NO_x ☐ ►SO_2 ☐ ►CO ☐ ►CO_2 ☐ ►H_2S ☐ ►TRS ☐ ►NH_3

☐ ►O_2 ☐ ►H_2O ☐ ►Opacity ☐ ►Lead ☐ ►Gauge Pressure ☐ ►Flow

☐ ►Hydrocarbon Breakthrough (VOC) ☐ ►Temperature ☐ ►Wind Speed

☐ ►Wind Direction ☐ ►Steam ☒ ►Other (describe) Power outage

Unit(s) of Measurement

☐ ►ppm ☐ ►ppb ☐ ►min/hr > 20% ☐ ►inches H_2O ☐ ►mmHg

☐ ►psig ☐ ►pH ☐ ►^{0}Fahrenheit ☒ ►Other (describe)

Event Description:

This breakdown report is being submitted on 8/26/2024, at ~ 3:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 8/26/2024.

District Use Only

Received by Date Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the “Site Information and Description Information Required” areas of this form and email to *rca@baaqmd.gov*
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases**. Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference Breakdown Admissions Advisory dated 12/3/04. Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- ☐ Check Box #1.
- ☐ **NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the “Site Information and Description Information (Required)” area of the form.
- ☐ Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- ☐ Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the “Site Information and Description Information (Required)” area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- ☐ Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the “Site Information and Description Information (Required)” area of the form.
- ☐ All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- ☐ Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- ☐ Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #’s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the “Site Information and Description Information (Required)” area of the form.
- ☐ All PRD release reports must be reported by the following BAAQMD working day.

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

August 29, 2024 (via email: compliance@baaqmd.gov)

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105
Attn: RCA 30-Day Report

Re: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812,
Request for Breakdown Relief RCA Number 200588
30-Day Written Follow-up Report (Per Regulation 1, Section 432)

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting this 30-Day follow-up report to the Bay Area Air Quality Management District (BAAQMD) for the PG&E unplanned power outage event on August 26, 2024.

A breakdown report (Per Regulation 1, Section 431) was submitted on August 26, 2024, at ~3:05 PM by KCRDF because the landfill gas collection and control system (GCCS) temporarily shut down on August 26, 2024, at ~2:02 PM during PG&E unplanned power outage. The flare was back online on August 26, 2024, at around ~2:40 PM. Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power surge, due to direction from BAAQMD staff, KCRDF submitted the request for Breakdown Relief from BAAQMD for the August 26, 2024, PG&E power outage event via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on August 26, 2024, and was assigned RCA number 200588 (see Attachment A for copy of RCA submittal).

The unplanned power surge shutdown noted in RCA 200588 did not result in emissions and do not qualify as non-compliance. KCRDF believes that it complied with the Title V permit conditions and safety protocols. KCRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. KCRDF's downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control.

KCRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, KCRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Mike Tejero

Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- Copy of KCRDF RCA Form Number 200588

Attachment A
Copy of KCRDF RCA Form Number 200588

From: RCA Notification
To: Phadnis, Rajan
Cc: Erin Phillips; Azevedo, Becky; Colline, Christian; Tejero, Michael
Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 8.26.2024
Date: Monday, August 26, 2024 3:23:06 PM

ID# 200588

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Monday, August 26, 2024 3:05 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Erin Phillips <ephillips@baaqmd.gov>; Phadnis, Rajan <rphadnis@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Tejero, Michael <mtejero@wm.com>
Subject: KCRDF A1812-RCA for PG&E power outage on 8.26.2024

I am attaching the RCA notification form for PG&E power outage event on 8.26.2024 at ~1:20 PM, at Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
EP Specialist
For Kirby Canyon Recycling and Disposal Facility

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

August 26, 2024 (via email rca@baaqmd.gov)

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

Re: Reportable Compliance Activity (RCA) Notification
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on August 26, 2024, ~ 1:20 PM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on August 26, 2024, around ~3:00 PM.

Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control and KCRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as KCRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;

2. The breakdown is not the result of improper maintenance;

3. The breakdown does not create a public nuisance;

4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and

5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On August 26, 2024, the GCCS was back online at ~2:10 PM. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form KCRDF Facility A1812

BAY AREA AIR QUALITY MANAGEMENT DISTRICT	**COMPLIANCE & ENFORCEMENT DIVISION**	**Notification Form** **Reportable Compliance Activity (RCA)**

See back of form for instructions →

1. ☒ **BREAKDOWN RELIEF:** ***District Use Only*** **BREAKDOWN REFERENCE #:**

2. NA ☐ **MONITOR EXCESS EMISSION or EXCURSION:** ***District Use Only*** **REFERENCE#:**

3. NA ☐ **MONITOR IS INOPERATIVE:** ***District Use Only*** **REFERENCE#:**

4. NA ☐ **PRESSURE RELIEF DEVICE (PRD):** ***District Use Only*** **PRD REFERENCE#:**

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Kirby Canyon Recycling & Disposal Facility	Site #	A1812
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1
Reported by	R Phadnis	Phone #	510-875-9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	8/26/2024 at~1:20 PM	Clear Time	8/26/2024 at~2:10 PM

Monitor/device type(s): ☐ ▶CEM ☐ ▶GLM ☐ ▶Parametric ☐ ▶PRD ☐ ▶Non-monitor

Monitor description(s):

Parameter(s) exceeded or not functioning due to inoperation

☐ ▶NO_x ☐ ▶SO_2 ☐ ▶CO ☐ ▶CO_2 ☐ ▶H_2S ☐ ▶TRS ☐ ▶NH_3
☐ ▶O_2 ☐ ▶H_2O ☐ ▶Opacity ☐ ▶Lead ☐ ▶Gauge Pressure ☐ ▶Flow
☐ ▶Hydrocarbon Breakthrough (VOC) ☐ ▶Temperature ☐ ▶Wind Speed
☐ ▶Wind Direction ☐ ▶Steam ☒ ▶Other (describe) Power outage

Unit(s) of Measurement

☐ ▶ppm ☐ ▶ppb ☐ ▶min/hr > 20% ☐ ▶inches H_2O ☐ ▶mmHg
☐ ▶psig ☐ ▶pH ☐ ▶^{0}Fahrenheit ☒ ▶Other (describe)

Event Description:

This breakdown report is being submitted on 8/26/2024, at ~ 3:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 8/26/2024.

District Use Only

Received by Date Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to *rca@baaqmd.gov*
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases**. Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference Breakdown Admissions Advisory dated 12/3/04. Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- ☐ Check Box #1.
- ☐ **NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- • Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- ☐ Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- ☐ Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- ☐ Check Box #3 only if inoperative for greater than 24 hours.
- • Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- ☐ All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- ☐ Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- ☐ Check Box #4 only if a pressure relief device is released.
- • Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- • Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- ☐ All PRD release reports must be reported by the following BAAQMD working day.

Email to►rca@baaqmd.gov - Telephone►415.749.4979 (M-F 8:30 am – 5:00 pm) - After core business hours, email or call►415.749.4666

Form Revision Dated: 12-12-18

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

November 8, 2024

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105
Attn: Title V Reports

Re: Title V 10-Day Report for Potential Deviation for Receipt of Nonconforming Soil
Plant Number 1812, Kirby Canyon Recycling & Disposal Facility, San Jose, California

Dear Sir or Madam:

In an abundance of caution the Kirby Canyon Recycling & Disposal Facility (KCRDF) is submitting this 10-day notice to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for Waste Management of California, Inc. (WM) facility in San Jose, CA for a potential deviation due to a customer mischaracterizing their material.

KCRDF suspects that approximately 19.5 tons of potentially contaminated soil was delivered on October 31, 2024, and applied for daily cover due to a customer mischaracterizing their material. Therefore, KCRDF was potentially in deviation of Title V Permit Condition 1437. As required, a 30-day follow-up letter will confirm the contents of this submittal and provide additional details as appropriate.

KCRDF is committed to operating its landfill in compliance with applicable regulations. If you have any questions, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Mike Tejero
District Manager

cc: Erin Phillips, BAAQMD

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

November 26, 2024

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105
Attn: Title V Reports

Re: Title V 30-Day Follow-up Report for Potential Deviation for Receipt of Nonconforming Soil
Plant Number 1812, Kirby Canyon Recycling & Disposal Facility, San Jose, California

Dear Sir or Madam:

The Kirby Canyon Recycling & Disposal Facility (KCRDF) is submitting this 30-day follow-up report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for Monitoring Reports.

On November 8, 2024, in an abundance of caution KCRDF submitted the 10-day notification to the BAAQMD for a potential deviation due to a customer mischaracterizing their soil material. KCRDF suspects that approximately 19.5 tons of potentially contaminated soil was delivered on October 31, 2024, and applied for daily cover.

This letter serves as the 30-day follow-up written report including corrective and preventative actions taken by KCRDF. Upon discovery of the mischaracterization of soil KCRDF immediately took the following actions:

11/1/2024: Customer informed KCRDF that a sub-hauler had obtained incorrect paperwork for the last load that was delivered on October 31, 2024. All incoming loads from this customer were flagged. The mischaracterized soil load was disposed of and buried, and site operations team was instructed that until further notice, future loads will be handled as contaminated soil and not used for cover.

11/4/2024: KCRDF discussed updates to material handling processes.

11/7/2024: KCRDF enhanced communication protocol between WM scheduling and customers with two or more profiles that include contaminated soil.

11/8/2024: Submitted 10-day written report via email to BAAQMD.

KCRDF is committed to operating its landfill in compliance with applicable regulations. If you have any questions, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Mike Tejero
District Manager

cc: Erin Phillips, BAAQMD

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

July 31, 2024

Perry Ng
Senior Air Quality Engineer
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105

Subject: Decommissioning Notification for Two Vertical Wells
Facility Number A1812
Kirby Canyon Recycling & Disposal Facility, San Jose, California

Dear Mr. Ng,

This letter is to notify the Bay Area Air Quality Management District (BAAQMD) of the decommissioning of two vertical landfill gas (LFG) wells KCYN0054 and KCLC0157, at the Kirby Canyon Recycling & Disposal Facility (KCRDF), pursuant to Title V Permit Condition Number 1437 Part 6, as modified by Application Number 27673. Wells KCYN0054 and KCLC0157 were decommissioned on July 31,2024.

As stated in the most recent well Startup notification letter submitted on December 1, 2024, there were 89 vertical LFG collection wells, 0 horizontal collectors and 4 LCRS connected to the GCCS at the KCRDF. After the completion of these well actions, the KCRDF current GCCS component count and remaining permitted actions per Application Number 31447 are listed in the following table:

Well Action Per Application #31447	**Vertical Decommissioning Actions**	**Vertical Installation Actions**	**Vertical Replacement Actions**	**Horizontal Decommissioning Actions**		**Horizontal Installation Actions**	
	VW	**VW**	**VW**	**HC**	**LCRS**	**HC**	**LCRS**
Permitted Actions	40	50	103	5	8	2	15
Actions Performed	2	11	0	0	0	0	1
Remaining Actions	38	39	103	5	8	2	14
Current Active Well Count	**87 vertical LFG wells, 0 HC and 4 LCRS**						

HC= Horizontal Trench Collectors; LCRS= Leachate Cleanout Riser; VW= Vertical Wells

If you have any questions or need any additional information, please do not hesitate to contact me at rphadnis@wm.com.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

November 19, 2024

Ms. Janet Carrasco
Air Quality Specialist II
Compliance and Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

Re: Kirby Canyon Recycling & Disposal Facility
Facility Number A1812
Request for Limited Exemption (for construction activities) from Regulation 8, Rule 34 (Solid Waste Disposal Sites), Section 303 (Landfill Surface Requirements)

Dear Ms. Carrasco:

This letter requests a limited exemption from the requirements of Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) during landfill construction activities to be conducted from November 27, 2024, through April 30, 2025, at the Kirby Canyon Recycling & Disposal Facility (KCRDF) Landfill in San Jose, California. This notification is submitted pursuant to Regulation 8, Rule 34, Section 118, “Limited Exemptions for Construction Activities.” The work consists of installation of new landfill gas (LFG) extraction wells and piping to maintain compliance with Regulation 8, Rule 34, and is to be performed during the period of November 27, 2024, through April 30, 2025.

The construction work will include excavation during drilling and installation of new LFG extraction wells; installation of new piping and laterals and repair of existing piping that will connect to existing LFG extraction wells and to the gas collection and control system (GCCS). The work for this project includes installation, excavation and backfilling. This letter also transmits the BAAQMD-required construction plan (work plan) for the proposed work. The work plan contains information required pursuant to Regulation 8, Rule 34, Section 118.1 and AB-32 §95470(a)(1)(I) and (J) and includes:

- Description of actions being taken;
- Description of landfill areas affected;
- Description of LFG components affected;
- Map showing the above areas and components;
- Reason requiring the action;
- Construction schedule; and
- Description of air quality mitigation measures planned.

No significant interruption of the current site LFG extraction and control operations is anticipated due to the work. The construction will begin on or around November 27, 2024. We anticipate construction activities to conclude by April 30, 2025.

Unless notified otherwise, KCRDF will proceed in accordance with the attached work plan. We deem submittal of this plan as approval by the BAAQMD to take necessary action to ensure compliance with regulations, which may include taking additional LFG extraction wells offline for an extended period of time pursuant to Regulation 8, Rule 34, Section 118.

In case of any questions, please do not hesitate to contact me.

Sincerely,

Rajan Phadnis
Kirby Canyon Recycling & Disposal Facility

CC:	Ben Tarver-KCRDF

BAAQMD RULE 8-34-118 CONSTRUCTION PLAN

Kirby Canyon Recycling & Disposal Facility

LFG EXTRACTION WELLS AND PIPING CONSTRUCTION WORK

November 27, 2024, through April 30, 2025

INTRODUCTION

This Construction Work Plan is submitted pursuant to Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 118: Limited Exemptions for Construction Activities. To obtain an exemption from BAAQMD Regulation 8, Rule 34, Section 303: Landfill Surface Requirements, the operator shall submit a construction plan in writing to the Air Pollution Control Officer (APCO) prior to beginning any construction activities.

Section 303 requires maintaining the concentration of organic compounds and methane below 500 parts per million by volume (ppmv) at all points on the landfill surface. Section 118 provides an exemption from the surface emission standard for *"….areas of the landfill surface where the landfill cover material has been removed and refuse has been exposed for the express purpose of installing, expanding, replacing, or repairing components of the landfill gas, leachate, or gas condensate collection and removal systems."*

- Description of actions being taken;
- Description of landfill areas affected;
- Description of landfill gas (LFG) components affected;
- Map showing the affected areas and components;
- Reason requiring the action;
- Construction schedule;
- Description of air quality mitigation measures planned; and
- Recordkeeping requirements.

ACTIONS BEING TAKEN

The work consists of installation of up to eight LFG wells and associated new piping that will connect to the existing gas collection and control system. The work consists of installation of new piping and laterals, excavation, backfilling, and repair of existing pipes and laterals that will connect to existing LFG extraction wells and to the GCCS.

AFFECTED LANDFILL AREAS

The construction activities will occur in the area shown on the attached figure.

AFFECTED LFG COMPONENTS

KCRDF will conduct landfill GCCS construction activities in compliance with the Rule 8-34-116 and 8-34-117, if applicable.

Please see below for list of proposed GCCS installation and repairs:

- Installation of up to eight new LFG wells and associated piping
- Installation and tie-ins of piping at new wells
- Any other additional piping that may be required at existing wells and pipes, and
- Cut and cap below grade surface penetrations that are not active

Pursuant to Rule 8-34-117, KCRDF will take the GCCS wells offline, as necessary. KCRDF will ensure that no more than 5 gas wells are shut down at any time, and that no gas collection well may be down for more than 24 hours.

It is anticipated that the construction will have no significant impact on the routine operation of the existing GCCS. Installation of new LFG extraction laterals is independent of the ongoing operations of the GCCS. When connecting LFG extraction wells, isolation valves installed within the existing GCCS piping network will be used to minimize the number of existing LFG extraction wells offline at any given time while the newly installed LFG laterals are connected to the GCCS.

REASONS FOR ACTIONS

The proposed construction work is intended to:

- Drilling and installation of new collection wells and repairs of LFG laterals and piping.
- Install and connect new piping and laterals.
- Increase LFG collection efficiency to further reduce the potential for surface emissions.

CONSTRUCTION SCHEDULE

The anticipated construction period will be between November 27, 2024, through April 30, 2025, and is summarized in the table below:

Table 1 - Preliminary Construction Schedule

Task	Project Duration
Mobilize crew, equipment, and materials to site	Week 1
Drilling and installation of wells, repair and installation of piping, excavation, and backfilling	Up to 21 weeks
Clean-up and demobilize crew and materials	Week 1

AIR QUALITY MITIGATION MEASURES

Emission of raw LFG will be minimized during construction. We anticipate minimal interruption of the overall site LFG extraction and control operations during the work. Installation of laterals and piping is independent of ongoing operations of the existing GCCS. Air quality mitigation will be provided during the installation and connection of piping to existing GCCS piping network. These mitigation measures are presented below and are designed to meet both the requirements of 8-34 Section 118 and §95470(a)(1)(I).

Due to the minimal amount of excavation planned for this work, air quality impacts are also anticipated to be minimal. Air quality mitigation will be provided during the following work tasks:

- Drilling for installation of LFG wells
- Installation of new LFG wells, pipes, and repairs of existing pipes
- Excavation and backfill of pipe trenches, and
- Connection of new wells and laterals to existing piping and GCCS

During excavation through waste and soil cover, air emission will be controlled by implementing the following measures:

- Minimizing the installation time for each component
- Minimizing the quantity of open borings or trench excavations at any one time
- Relocating excavated refuse to the designated waste disposal area immediately and covering the relocated waste daily by no later than the end of each day, and
- Excavations will not be left open overnight or for periods greater than 8 hours

During connection to the existing LFG piping, and installation of laterals and piping, air emissions will be controlled by implementing the following measures:

- Capping or blind flanging of all pipes and collector openings, which will remain sealed until time of connection to a vacuum source
- Using isolation valves
- Minimizing installation time for making each connection, and
- Minimizing the amount of open pipe during each installation, by using flange joints and flexible couplings.

RECORDKEEPING

The following records will be retained during the project:

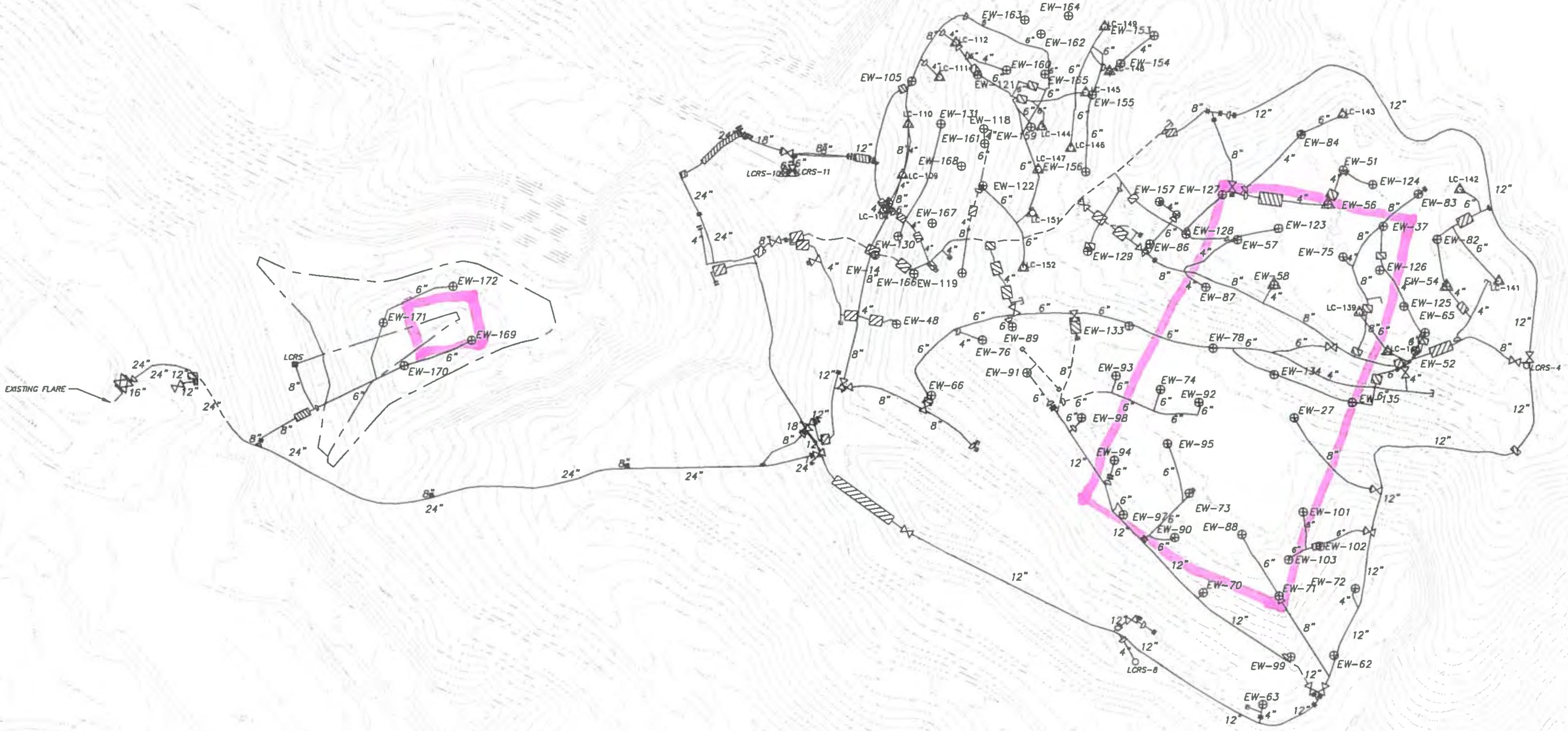
- Construction start and end dates, projected and actual installation dates, and projected shut down times for individual gas collection system components.
- GCCS downtime and individual well shutdown times will be documented in accordance with the KCRDF’s Startup, Shutdown, and Malfunction (SSM) Plan.
- Mitigation measures taken to minimize methane emissions and other potential air quality impacts will be documented.

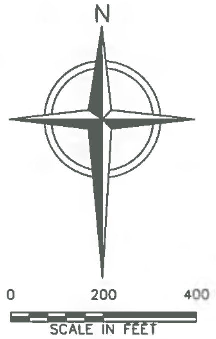
Attachments: Figure 1 – Gas Collection and Control System layout

🟪 = CONSTRUCTION AREA

LEGEND

1400	EXISTING 10' CONTOUR
12"	EXISTING ABOVEGROUND PIPING
12" (dashed)	EXISTING BELOWGROUND PIPING
—·—·—	EXISTING HORIZONTAL COLLECTOR
— —	EXISTING LCRS COLLECTION PIPING
⊕ EW-3	EXISTING LFG EXTRACTION WELL
△ LC-108	EXISTING LOCAL CONTROL WELL
⊗	EXISTING REMOTE WELLHEAD
o H6	EXISTING HORIZONTAL COLLECTOR WELLHEAD
⋈	EXISTING CONTROL VALVE
⊣	EXISTING BLIND FLANGE
⊣⊢	EXISTING FLANGE CONNECTION
▷	EXISTING REDUCER FITTING
▨	EXISTING ROAD CROSSING
○ RISER	EXISTING RISER
⊐	EXISTING CAP ON EXISTING PIPE
■	EXISTING LCRS WELLHEAD





NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: JANUARY 26, 2023.
2. SUPPLEMENTAL 2016 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JULY 19, 2017. WELL LOCATIONS PER RECORD DRAWINGS WELL SCHEDULE DATED: JULY 13, 2016.
3. 2017 GCCS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: OCTOBER 11, 2017
4. 2019 GCCS AS-BUILT SURVEYS PROVIDED BY F3 AND ASSOCIATES, INC. DATED AUGUST 19, 2019 AND DECEMBER 30, 2019
5. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM DATED: JANUARY 27 AND 30, 2020, AND BY SCS ENGINEERS DATED: FEBRUARY 4, 2020.
6. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
7. SUPPLEMENTAL 2020 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 3, 2020, NOVEMBER 5, 2020 AND NOVEMBER 6, 2020.
8. 2021 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 4, 2021.
9. 2022 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: SEPTEMBER 29, 2022.
10. 2023 GCCS IMPROVEMENTS PRE-CONSTRUCTION SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: MAY 3, 2023.
11. SUPPLEMENTAL 2023 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 22, 2023

DRAFT RECORD DRAWINGS

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 11/28/23
DRAWN BY KT
DESIGNED BY CME
CHECKED BY AMN
APPROVED BY PJS

TETRA TECH

KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2023 AS-BUILT

AS-BUILT SITE PLAN

SHEET NO.
1
PROJECT NO.
230053

APPENDIX K

WELLFIELD DEVIATION LOG

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
WELLFIELD DEVIATION REPORT
Reporting Period: From July 1 2024 through December 31, 2024

REPORT PREPARED BY: Rajan Phadnis
UPDATED DATE: January 1, 2025
LFG MONITORING DEVICE: GEM
MODEL: 2000
DATE LAST CALIBRATED: DAILY

Well ID	Date and Time	CH_4	CO_2	O_2	Balance	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)	Comments	Duration of Exceedance As of the End of Reporting Period
KCYN0054	7/12/2024 11:04	8.5	12.2	10.5	68.8	93.9	95.1	-11.1	-6.4	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	110
Well KCYN0054 continued to have an oxygen exceedance and was decommissioned on July 31, 2024.											
KCYN0063	6/6/2024 9:19	0.8	9.2	17.1	72.9	70.3	70.3	-50.4	-50.4	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	
KCYN0063	7/16/2024 6:04	58.0	41.3	0.0	0.7	105.1	109.1	-30.9	-48.4	NSPS/EG CAI;Fully Open;Inc. Flow/Vac.	
KCYN0063	7/16/2024 6:09	NSPS/EG Parameter Corrective Action Completed (PCAC_O2)								NSPS/EG Parameter Corrective Action Completed (PCAC_O2)	93
Well KCYN0063 had an existing oxygen exceedance. New wellhead was installed and well exceedance was cleared in July 2024.											
KCLC0157	7/12/2024 7:18	6.5	12.9	16.0	64.6	71.6	71.6	-24.3	-24.2	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	55
Well KCLC0157 continued to have an oxygen exceedance during July 2024. Well KCLC0157 was decommissioned on July 31, 2024.											

EG CAI= Emissions Guidelines Corrective Action Initiated

APPENDIX L

MONTHLY LANDFILL GAS FLOW RATES

MONTHLY LFG Input to Flare (A-12) July 1, 2024-December 31, 2024
KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA

Month	Total Available Runtime (hours)	Total Downtime (hours)	Total Runtime (hours)	Average Flow (scfm)	CH_4 (%)*	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Total Heat Input (MMBTU)
July-24	744.0	8.0	736.0	2,019	48.8	89,129,790	43,525,196	44,091
August-24	744.0	1.2	742.8	2,166	48.8	96,540,287	47,144,001	47,757
September-24	720.0	5.8	714.2	2,065	48.8	88,466,017	43,201,052	43,763
October-24	744.0	1.3	742.7	2,018	48.8	89,935,666	43,918,733	44,490
November 2024[1]	721.0	0.0	721.0	1,952	48.8	84,464,194	41,246,822	41,783
December-24	744.0	12.4	731.6	1,877	48.8	82,332,406	40,205,795	40,728
January 1-December 31, 2024 Totals/Avg	**8,784.0**	**59.6**	**8,724.4**	**2,037**	**48.2**	**1,066,295,382**	**514,060,321**	**520,743**
July 1-December 31, 2024, Totals/Avg	**4,417.0**	**28.6**	**4,388.4**	**2,016**	**48.8**	**530,868,360**	**259,241,601**	**262,612**

NOTES:

**Methane content determined from February 14, 2024 source test events.

[1] There were 721 hours in November 2024, due to Daylight Saving Time.

The annual heat input rate for the A-12 Flare shall not exceed 1,087,700 MMBTU and 2,980 MMBTU per day (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute
scf= standard cubic feet
MMBTU= million British thermal units
LFG= landfill gas
CH_4= methane

MONTHLY LFG Input to Flare (A-12)

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose,

MONTHLY LFG Heat Input: 2024-Partial

Month	Monthly Total Heat Input (MMBTU)	12-Month Total Heat Input (MMBTU)
July-24	44,091	489,506
August-24	47,757	497,656
September-24	43,763	505,937
October-24	44,490	517,451
November-24	41,783	524,941
December-24	40,728	520,743

MMBTU= million British thermal units

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: July-24

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
7/1/2024	24.00	48.8	1,951	2,809,395	1,371,926	1,013.0	1,390
7/2/2024	22.07	48.8	2,041	2,701,723	1,319,346	1,013.0	1,336
7/3/2024	19.43	48.8	2,037	2,375,249	1,159,917	1,013.0	1,175
7/4/2024	24.00	48.8	1,981	2,853,273	1,393,353	1,013.0	1,411
7/5/2024	24.00	48.8	1,942	2,796,142	1,365,454	1,013.0	1,383
7/6/2024	24.00	48.8	1,913	2,754,970	1,345,348	1,013.0	1,363
7/7/2024	24.00	48.8	1,894	2,727,772	1,332,067	1,013.0	1,349
7/8/2024	24.00	48.8	1,872	2,696,031	1,316,566	1,013.0	1,334
7/9/2024	24.00	48.8	1,873	2,697,254	1,317,164	1,013.0	1,334
7/10/2024	24.00	48.8	1,881	2,708,076	1,322,448	1,013.0	1,340
7/11/2024	24.00	48.8	1,876	2,701,614	1,319,293	1,013.0	1,336
7/12/2024	24.00	48.8	1,896	2,730,411	1,333,355	1,013.0	1,351
7/13/2024	24.00	48.8	1,866	2,686,645	1,311,983	1,013.0	1,329
7/14/2024	24.00	48.8	1,875	2,699,393	1,318,208	1,013.0	1,335
7/15/2024	24.00	48.8	1,881	2,709,105	1,322,951	1,013.0	1,340
7/16/2024	24.00	48.8	1,919	2,763,468	1,349,498	1,013.0	1,367
7/17/2024	24.00	48.8	1,964	2,827,879	1,380,952	1,013.0	1,399
7/18/2024	24.00	48.8	1,998	2,876,478	1,404,685	1,013.0	1,423
7/19/2024	24.00	48.8	2,030	2,922,538	1,427,178	1,013.0	1,446
7/20/2024	24.00	48.8	2,120	3,052,700	1,490,740	1,013.0	1,510
7/21/2024	24.00	48.8	2,100	3,024,464	1,476,952	1,013.0	1,496
7/22/2024	24.00	48.8	2,126	3,060,781	1,494,686	1,013.0	1,514
7/23/2024	24.00	48.8	2,177	3,134,310	1,530,593	1,013.0	1,550
7/24/2024	24.00	48.8	2,204	3,173,480	1,549,721	1,013.0	1,570
7/25/2024	24.00	48.8	2,206	3,175,982	1,550,943	1,013.0	1,571
7/26/2024	24.00	48.8	2,192	3,156,414	1,541,387	1,013.0	1,561
7/27/2024	24.00	48.8	2,126	3,060,797	1,494,694	1,013.0	1,514
7/28/2024	22.53	48.8	2,177	2,942,750	1,437,048	1,013.0	1,456
7/29/2024	24.00	48.8	2,137	3,077,189	1,502,699	1,013.0	1,522
7/30/2024	24.00	48.8	2,144	3,087,424	1,507,697	1,013.0	1,527
7/31/2024	24.00	48.8	2,185	3,146,083	1,536,342	1,013.0	1,556
Totals/ Average:	**736.03**	**48.8**	**2,019**	**89,129,790**	**43,525,196**	1,013.0	**44,091**
						Maximum	**1,571**

NOTES:

*Starting April 11, 2024, Methane content determined from the February 14, 2024, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: August-24

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
8/1/2024	24.00	48.8	2,252	3,242,333	1,583,345	1,013.0	1,604
8/2/2024	24.00	48.8	2,203	3,172,973	1,549,474	1,013.0	1,570
8/3/2024	24.00	48.8	2,188	3,150,889	1,538,689	1,013.0	1,559
8/4/2024	24.00	48.8	2,152	3,098,972	1,513,336	1,013.0	1,533
8/5/2024	24.00	48.8	2,134	3,073,293	1,500,797	1,013.0	1,520
8/6/2024	24.00	48.8	2,174	3,130,924	1,528,940	1,013.0	1,549
8/7/2024	24.00	48.8	2,214	3,188,582	1,557,096	1,013.0	1,577
8/8/2024	24.00	48.8	2,205	3,174,597	1,550,267	1,013.0	1,570
8/9/2024	24.00	48.8	2,192	3,156,760	1,541,556	1,013.0	1,562
8/10/2024	24.00	48.8	2,196	3,162,859	1,544,535	1,013.0	1,565
8/11/2024	24.00	48.8	2,187	3,149,016	1,537,775	1,013.0	1,558
8/12/2024	24.00	48.8	2,175	3,131,345	1,529,145	1,013.0	1,549
8/13/2024	24.00	48.8	2,181	3,141,140	1,533,929	1,013.0	1,554
8/14/2024	24.00	48.8	2,190	3,152,967	1,539,704	1,013.0	1,560
8/15/2024	24.00	48.8	2,185	3,146,709	1,536,648	1,013.0	1,557
8/16/2024	24.00	48.8	2,187	3,149,771	1,538,143	1,013.0	1,558
8/17/2024	24.00	48.8	2,181	3,141,037	1,533,878	1,013.0	1,554
8/18/2024	24.00	48.8	2,165	3,118,171	1,522,712	1,013.0	1,543
8/19/2024	24.00	48.8	2,162	3,113,029	1,520,201	1,013.0	1,540
8/20/2024	24.00	48.8	2,173	3,129,047	1,528,023	1,013.0	1,548
8/21/2024	24.00	48.8	2,171	3,125,987	1,526,529	1,013.0	1,546
8/22/2024	24.00	48.8	2,140	3,081,630	1,504,868	1,013.0	1,524
8/23/2024	24.00	48.8	2,125	3,060,713	1,494,653	1,013.0	1,514
8/24/2024	24.00	48.8	2,149	3,094,189	1,511,001	1,013.0	1,531
8/25/2024	24.00	48.8	2,155	3,103,730	1,515,660	1,013.0	1,535
8/26/2024	22.80	48.8	2,190	2,996,024	1,463,063	1,013.0	1,482
8/27/2024	24.00	48.8	2,158	3,108,122	1,517,805	1,013.0	1,538
8/28/2024	24.00	48.8	2,115	3,046,174	1,487,553	1,013.0	1,507
8/29/2024	24.00	48.8	2,083	2,999,385	1,464,705	1,013.0	1,484
8/30/2024	24.00	48.8	2,087	3,005,088	1,467,490	1,013.0	1,487
8/31/2024	24.00	48.8	2,080	2,994,831	1,462,481	1,013.0	1,481
Totals/ Average:	**742.80**	**48.8**	**2,166**	**96,540,287**	**47,144,001**	1,013.0	**47,757**
						Maximum	**1,604**

NOTES:

*Starting April 11, 2024, Methane content determined from the February 14, 2024, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: September-24

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
9/1/2024	24.00	48.8	2,069	2,979,098	1,454,798	1,013.0	1,474
9/2/2024	24.00	48.8	2,067	2,976,070	1,453,319	1,013.0	1,472
9/3/2024	24.00	48.8	2,119	3,050,750	1,489,788	1,013.0	1,509
9/4/2024	24.00	48.8	2,124	3,058,031	1,493,344	1,013.0	1,513
9/5/2024	24.00	48.8	2,115	3,046,028	1,487,482	1,013.0	1,507
9/6/2024	24.00	48.8	2,115	3,045,760	1,487,351	1,013.0	1,507
9/7/2024	24.00	48.8	2,108	3,035,035	1,482,114	1,013.0	1,501
9/8/2024	24.00	48.8	2,118	3,049,913	1,489,379	1,013.0	1,509
9/9/2024	24.00	48.8	2,086	3,003,456	1,466,693	1,013.0	1,486
9/10/2024	24.00	48.8	2,059	2,965,467	1,448,141	1,013.0	1,467
9/11/2024	18.23	48.8	2,116	2,315,414	1,130,698	1,013.0	1,145
9/12/2024	24.00	48.8	2,115	3,045,417	1,487,184	1,013.0	1,507
9/13/2024	24.00	48.8	2,089	3,008,714	1,469,260	1,013.0	1,488
9/14/2024	24.00	48.8	2,045	2,945,227	1,438,257	1,013.0	1,457
9/15/2024	24.00	48.8	2,031	2,924,106	1,427,943	1,013.0	1,447
9/16/2024	24.00	48.8	2,019	2,907,594	1,419,880	1,013.0	1,438
9/17/2024	24.00	48.8	2,026	2,916,939	1,424,443	1,013.0	1,443
9/18/2024	24.00	48.8	2,030	2,922,910	1,427,359	1,013.0	1,446
9/19/2024	24.00	48.8	2,035	2,931,099	1,431,358	1,013.0	1,450
9/20/2024	24.00	48.8	2,035	2,930,943	1,431,282	1,013.0	1,450
9/21/2024	24.00	48.8	2,033	2,927,053	1,429,382	1,013.0	1,448
9/22/2024	24.00	48.8	2,043	2,941,337	1,436,358	1,013.0	1,455
9/23/2024	24.00	48.8	2,072	2,983,223	1,456,812	1,013.0	1,476
9/24/2024	24.00	48.8	2,067	2,977,061	1,453,803	1,013.0	1,473
9/25/2024	24.00	48.8	2,018	2,905,787	1,418,997	1,013.0	1,437
9/26/2024	24.00	48.8	2,029	2,921,959	1,426,895	1,013.0	1,445
9/27/2024	24.00	48.8	2,060	2,966,765	1,448,775	1,013.0	1,468
9/28/2024	24.00	48.8	2,033	2,927,213	1,429,461	1,013.0	1,448
9/29/2024	24.00	48.8	2,025	2,916,022	1,423,996	1,013.0	1,443
9/30/2024	24.00	48.8	2,043	2,941,626	1,436,499	1,013.0	1,455
Totals/ Average:	**714.23**	**48.8**	**2,065**	**88,466,017**	**43,201,052**	1,013.0	**43,763**
						Maximum	**1,513**

NOTES:

*Starting April 11, 2024, Methane content determined from the February 14, 2024, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: October-24

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
10/1/2024	24.00	48.8	2,047	2,947,639	1,439,435	1,013.0	1,458
10/2/2024	24.00	48.8	2,073	2,985,707	1,458,025	1,013.0	1,477
10/3/2024	24.00	48.8	2,083	2,999,133	1,464,582	1,013.0	1,484
10/4/2024	24.00	48.8	2,058	2,963,043	1,446,958	1,013.0	1,466
10/5/2024	22.70	48.8	2,140	2,914,410	1,423,208	1,013.0	1,442
10/6/2024	24.00	48.8	2,098	3,020,529	1,475,030	1,013.0	1,494
10/7/2024	24.00	48.8	2,081	2,996,257	1,463,177	1,013.0	1,482
10/8/2024	24.00	48.8	2,046	2,946,072	1,438,670	1,013.0	1,457
10/9/2024	24.00	48.8	2,019	2,907,049	1,419,614	1,013.0	1,438
10/10/2024	24.00	48.8	2,021	2,909,904	1,421,008	1,013.0	1,439
10/11/2024	24.00	48.8	2,013	2,898,106	1,415,247	1,013.0	1,434
10/12/2024	24.00	48.8	2,015	2,901,997	1,417,147	1,013.0	1,436
10/13/2024	24.00	48.8	2,029	2,922,047	1,426,938	1,013.0	1,445
10/14/2024	24.00	48.8	2,013	2,898,297	1,415,340	1,013.0	1,434
10/15/2024	24.00	48.8	2,014	2,899,587	1,415,970	1,013.0	1,434
10/16/2024	24.00	48.8	2,004	2,885,955	1,409,313	1,013.0	1,428
10/17/2024	24.00	48.8	1,990	2,865,778	1,399,460	1,013.0	1,418
10/18/2024	24.00	48.8	1,984	2,856,807	1,395,079	1,013.0	1,413
10/19/2024	24.00	48.8	2,006	2,889,189	1,410,892	1,013.0	1,429
10/20/2024	24.00	48.8	2,009	2,893,140	1,412,822	1,013.0	1,431
10/21/2024	24.00	48.8	2,003	2,884,160	1,408,436	1,013.0	1,427
10/22/2024	24.00	48.8	1,994	2,871,957	1,402,477	1,013.0	1,421
10/23/2024	24.00	48.8	1,995	2,873,503	1,403,232	1,013.0	1,421
10/24/2024	24.00	48.8	1,996	2,873,884	1,403,418	1,013.0	1,422
10/25/2024	24.00	48.8	1,988	2,863,341	1,398,270	1,013.0	1,416
10/26/2024	24.00	48.8	1,993	2,869,228	1,401,144	1,013.0	1,419
10/27/2024	24.00	48.8	1,993	2,869,587	1,401,320	1,013.0	1,420
10/28/2024	24.00	48.8	1,971	2,838,067	1,385,927	1,013.0	1,404
10/29/2024	24.00	48.8	1,968	2,833,407	1,383,652	1,013.0	1,402
10/30/2024	24.00	48.8	1,968	2,833,860	1,383,873	1,013.0	1,402
10/31/2024	24.00	48.8	1,961	2,824,026	1,379,071	1,013.0	1,397
Totals/ Average:	**742.70**	**48.8**	**2,018**	**89,935,666**	**43,918,733**	1,013.0	**44,490**
						Maximum	**1,494**

NOTES:

*Starting April 11, 2024, Methane content determined from the February 14, 2024, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: November-24

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
11/1/2024	24.00	48.8	1,972	2,840,325	1,387,030	1,013.0	1,405
11/2/2024	24.00	48.8	1,959	2,820,444	1,377,322	1,013.0	1,395
11/3/2024	25.00	48.8	1,952	2,927,854	1,429,774	1,013.0	1,448
11/4/2024	24.00	48.8	1,959	2,821,067	1,377,626	1,013.0	1,396
11/5/2024	24.00	48.8	1,949	2,806,427	1,370,477	1,013.0	1,388
11/6/2024	24.00	48.8	1,945	2,801,199	1,367,924	1,013.0	1,386
11/7/2024	24.00	48.8	1,955	2,814,631	1,374,483	1,013.0	1,392
11/8/2024	24.00	48.8	1,970	2,836,702	1,385,261	1,013.0	1,403
11/9/2024	24.00	48.8	1,980	2,851,298	1,392,389	1,013.0	1,410
11/10/2024	24.00	48.8	1,974	2,842,870	1,388,273	1,013.0	1,406
11/11/2024	24.00	48.8	1,955	2,815,795	1,375,051	1,013.0	1,393
11/12/2024	24.00	48.8	1,983	2,855,578	1,394,479	1,013.0	1,413
11/13/2024	24.00	48.8	1,987	2,861,950	1,397,590	1,013.0	1,416
11/14/2024	24.00	48.8	1,983	2,855,636	1,394,507	1,013.0	1,413
11/15/2024	24.00	48.8	1,951	2,810,113	1,372,277	1,013.0	1,390
11/16/2024	24.00	48.8	1,943	2,798,200	1,366,459	1,013.0	1,384
11/17/2024	24.00	48.8	1,948	2,805,272	1,369,913	1,013.0	1,388
11/18/2024	24.00	48.8	1,939	2,792,863	1,363,853	1,013.0	1,382
11/19/2024	24.00	48.8	1,946	2,802,109	1,368,368	1,013.0	1,386
11/20/2024	24.00	48.8	1,943	2,797,246	1,365,993	1,013.0	1,384
11/21/2024	24.00	48.8	1,955	2,815,001	1,374,664	1,013.0	1,393
11/22/2024	24.00	48.8	1,944	2,799,212	1,366,953	1,013.0	1,385
11/23/2024	24.00	48.8	1,936	2,787,826	1,361,393	1,013.0	1,379
11/24/2024	24.00	48.8	1,936	2,787,122	1,361,049	1,013.0	1,379
11/25/2024	24.00	48.8	1,933	2,783,191	1,359,130	1,013.0	1,377
11/26/2024	24.00	48.8	1,937	2,789,005	1,361,969	1,013.0	1,380
11/27/2024	24.00	48.8	1,938	2,790,057	1,362,482	1,013.0	1,380
11/28/2024	24.00	48.8	1,931	2,780,494	1,357,813	1,013.0	1,375
11/29/2024	24.00	48.8	1,934	2,784,957	1,359,992	1,013.0	1,378
11/30/2024	24.00	48.8	1,937	2,789,750	1,362,333	1,013.0	1,380
Totals/ Average:	**721.00**	**48.8**	**1,952**	**84,464,194**	**41,246,822**	1,013.0	**41,783**
						Maximum	**1,448**

NOTES:

*Starting April 11, 2024, Methane content determined from the February 14, 2024, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute
BTU/scf= British thermal unit per square cubic feet
scf= standard cubic feet
MMBTU= million British thermal units
LFG= landfill gas
CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: December-24

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
12/1/2024	24.00	48.8	1,930	2,779,714	1,357,432	1,013.0	1,375
12/2/2024	24.00	48.8	1,892	2,724,453	1,330,446	1,013.0	1,348
12/3/2024	24.00	48.8	1,869	2,692,072	1,314,633	1,013.0	1,332
12/4/2024	24.00	48.8	1,886	2,715,332	1,325,992	1,013.0	1,343
12/5/2024	24.00	48.8	1,883	2,711,934	1,324,332	1,013.0	1,342
12/6/2024	22.77	48.8	1,898	2,593,330	1,266,414	1,013.0	1,283
12/7/2024	24.00	48.8	1,931	2,780,716	1,357,921	1,013.0	1,376
12/8/2024	24.00	48.8	1,888	2,719,306	1,327,932	1,013.0	1,345
12/9/2024	24.00	48.8	1,913	2,754,181	1,344,963	1,013.0	1,362
12/10/2024	24.00	48.8	1,917	2,760,125	1,347,866	1,013.0	1,365
12/11/2024	14.23	48.8	1,952	1,666,635	813,876	1,013.0	824
12/12/2024	24.00	48.8	1,898	2,732,831	1,334,537	1,013.0	1,352
12/13/2024	23.37	48.8	1,895	2,656,960	1,297,487	1,013.0	1,314
12/14/2024	24.00	48.8	1,838	2,646,513	1,292,385	1,013.0	1,309
12/15/2024	24.00	48.8	1,842	2,652,779	1,295,445	1,013.0	1,312
12/16/2024	23.60	48.8	1,863	2,637,372	1,287,921	1,013.0	1,305
12/17/2024	23.63	48.8	1,879	2,664,103	1,300,975	1,013.0	1,318
12/18/2024	24.00	48.8	1,861	2,680,039	1,308,757	1,013.0	1,326
12/19/2024	24.00	48.8	1,841	2,651,484	1,294,812	1,013.0	1,312
12/20/2024	24.00	48.8	1,864	2,684,264	1,310,820	1,013.0	1,328
12/21/2024	24.00	48.8	1,864	2,684,866	1,311,114	1,013.0	1,328
12/22/2024	24.00	48.8	1,876	2,700,900	1,318,944	1,013.0	1,336
12/23/2024	24.00	48.8	1,887	2,716,750	1,326,684	1,013.0	1,344
12/24/2024	24.00	48.8	1,855	2,671,845	1,304,755	1,013.0	1,322
12/25/2024	24.00	48.8	1,852	2,667,567	1,302,666	1,013.0	1,320
12/26/2024	24.00	48.8	1,855	2,670,867	1,304,278	1,013.0	1,321
12/27/2024	24.00	48.8	1,858	2,676,053	1,306,810	1,013.0	1,324
12/28/2024	24.00	48.8	1,862	2,681,744	1,309,589	1,013.0	1,327
12/29/2024	24.00	48.8	1,858	2,675,326	1,306,455	1,013.0	1,323
12/30/2024	24.00	48.8	1,839	2,648,509	1,293,360	1,013.0	1,310
12/31/2024	24.00	48.8	1,829	2,633,836	1,286,194	1,013.0	1,303
Totals/ Average:	**731.60**	**48.8**	**1,877**	**82,332,406**	**40,205,795**	1,013.0	**40,728**
						Maximum	**1,376**

NOTES:

*Starting April 11, 2024, Methane content determined from the February 14, 2024, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

APPENDIX M

MONTHLY CONDENSATE INJECTION LOGS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY			
CONDENSATE INJECTION TOTALS:2024 Partial			
Title V Permit A1812, Condition Number 1437 Part 14			
Month	**Average Condensate Injection Rate (gpm)**	**Monthly Condensate Injection Throughput (gallons)**	**Condensate Injection Throughput 12-Month Total (gallons)**
July-24	2.3	37,755	726,407
August-24	2.2	51,321	729,025
September-24	2.5	52,143	724,867
October-24	2.6	55,991	727,704
November-24	2.5	62,691	728,451
December-24	2.8	57,515	695,564

NOTES:

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 1437 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 1437 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

July-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/07/01	04:42:00	2024/07/01	13:50:00	548.0	1.9	1,017.5
2024/07/02	02:10:00	2024/07/02	08:48:00	398.0	1.9	751.0
2024/07/02	10:22:00	2024/07/02	10:58:00	36.0	1.7	61.9
2024/07/02	11:48:00	2024/07/02	12:46:00	58.0	2.1	120.6
2024/07/02	13:38:00	2024/07/02	16:38:00	180.0	2.6	466.3
2024/07/03	06:06:00	2024/07/03	08:44:00	158.0	2.8	438.6
2024/07/03	09:20:00	2024/07/03	09:30:00	10.0	2.3	23.2
2024/07/03	11:12:00	2024/07/03	11:40:00	28.0	2.5	69.2
2024/07/03	12:24:00	2024/07/03	12:40:00	16.0	2.3	36.3
2024/07/03	13:28:00	2024/07/03	13:42:00	14.0	2.5	34.5
2024/07/03	19:28:00	2024/07/03	22:58:00	210.0	2.7	570.9
2024/07/04	08:34:00	2024/07/04	12:34:00	240.0	2.8	661.2
2024/07/05	03:06:00	2024/07/05	06:22:00	196.0	2.9	562.0
2024/07/05	12:14:00	2024/07/05	15:36:00	202.0	2.9	576.3
2024/07/06	05:44:00	2024/07/06	09:28:00	224.0	2.9	641.2
2024/07/06	16:08:00	2024/07/06	18:48:00	160.0	2.7	439.4
2024/07/07	08:04:00	2024/07/07	11:34:00	210.0	2.9	607.0
2024/07/08	00:10:00	2024/07/08	02:56:00	166.0	2.9	486.4
2024/07/08	09:28:00	2024/07/08	13:04:00	216.0	2.9	623.9
2024/07/09	02:52:00	2024/07/09	05:56:00	184.0	3.0	549.0
2024/07/09	11:56:00	2024/07/09	15:12:00	196.0	2.9	562.5
2024/07/10	04:10:00	2024/07/10	07:28:00	198.0	2.9	578.6
2024/07/10	13:40:00	2024/07/10	16:38:00	178.0	2.8	498.2
2024/07/11	06:10:00	2024/07/11	09:50:00	220.0	2.6	572.1
2024/07/11	18:08:00	2024/07/11	21:08:00	180.0	2.2	403.0
2024/07/12	08:08:00	2024/07/12	13:24:00	316.0	2.2	704.0
2024/07/13	04:04:00	2024/07/13	08:38:00	274.0	2.6	706.5
2024/07/13	15:02:00	2024/07/13	18:46:00	224.0	2.6	575.9
2024/07/14	05:46:00	2024/07/14	10:44:00	298.0	2.2	662.2
2024/07/14	18:08:00	2024/07/14	21:16:00	188.0	2.2	413.5
2024/07/15	06:00:00	2024/07/15	11:18:00	318.0	2.3	716.1
2024/07/15	18:56:00	2024/07/15	22:06:00	190.0	2.2	425.1
2024/07/16	05:30:00	2024/07/16	10:32:00	302.0	2.2	676.0
2024/07/16	15:46:00	2024/07/16	19:18:00	212.0	2.2	474.8
2024/07/17	03:48:00	2024/07/17	09:08:00	320.0	2.2	713.6
2024/07/17	13:30:00	2024/07/17	18:00:00	270.0	2.2	598.0
2024/07/18	02:28:00	2024/07/18	08:16:00	348.0	2.2	774.2
2024/07/18	12:40:00	2024/07/18	17:34:00	294.0	2.2	650.9
2024/07/19	02:56:00	2024/07/19	08:20:00	324.0	2.2	722.7
2024/07/19	13:14:00	2024/07/19	18:14:00	300.0	2.2	658.8
2024/07/20	03:16:00	2024/07/20	08:48:00	332.0	2.2	742.3
2024/07/20	13:36:00	2024/07/20	17:50:00	254.0	2.2	567.7
2024/07/21	04:02:00	2024/07/21	09:52:00	350.0	2.3	792.8
2024/07/21	14:16:00	2024/07/21	18:22:00	246.0	2.3	554.9
2024/07/22	03:40:00	2024/07/22	10:00:00	380.0	2.2	853.0
2024/07/22	13:54:00	2024/07/22	18:06:00	252.0	2.3	573.8
2024/07/23	04:18:00	2024/07/23	09:56:00	338.0	2.3	774.0
2024/07/23	14:40:00	2024/07/23	18:10:00	210.0	2.3	481.4
2024/07/24	05:04:00	2024/07/24	11:06:00	362.0	2.3	827.9

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

July-24

2024/07/24	16:54:00	2024/07/24	20:10:00	196.0	2.3	448.6
2024/07/25	05:26:00	2024/07/25	11:40:00	374.0	2.3	848.5
2024/07/25	18:28:00	2024/07/25	21:36:00	188.0	2.3	431.6
2024/07/26	04:56:00	2024/07/26	11:26:00	390.0	2.3	887.6
2024/07/26	16:38:00	2024/07/26	19:56:00	198.0	2.3	461.8
2024/07/27	03:48:00	2024/07/27	09:42:00	354.0	2.2	795.3
2024/07/27	14:08:00	2024/07/27	18:48:00	280.0	2.3	640.4
2024/07/28	01:34:00	2024/07/28	07:58:00	384.0	2.3	874.4
2024/07/28	12:26:00	2024/07/28	18:52:00	386.0	2.3	875.6
2024/07/29	04:28:00	2024/07/29	09:16:00	288.0	2.3	651.2
2024/07/29	16:26:00	2024/07/29	21:34:00	308.0	2.3	706.4
2024/07/30	02:56:00	2024/07/30	09:00:00	364.0	2.3	829.2
2024/07/30	14:16:00	2024/07/30	19:32:00	316.0	2.3	723.9
2024/07/31	01:16:00	2024/07/31	05:58:00	282.0	2.3	645.8
2024/07/31	12:10:00	2024/07/31	18:18:00	368.0	2.1	767.7
2024/07/31	22:34:00	2024/07/31	23:58:00	86.0	2.1	176.7
Totals				**16,090**	**2.3**	**37,755**
			Maximum GPM		**3.0**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

August-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/08/01	00:00:00	2024/08/01	06:50:00	410.0	2.0	827
2024/08/01	12:26:00	2024/08/01	18:40:00	374.0	2.0	766
2024/08/01	23:46:00	2024/08/01	23:58:00	14.0	2.1	29
2024/08/02	00:00:00	2024/08/02	04:52:00	292.0	2.0	590
2024/08/02	11:28:00	2024/08/02	17:38:00	370.0	2.0	750
2024/08/02	22:40:00	2024/08/02	23:58:00	80.0	2.1	165
2024/08/03	00:00:00	2024/08/03	06:44:00	404.0	2.0	820
2024/08/03	11:48:00	2024/08/03	17:24:00	336.0	2.0	688
2024/08/03	23:06:00	2024/08/03	23:58:00	54.0	2.1	112
2024/08/04	00:00:00	2024/08/04	04:34:00	274.0	2.0	554
2024/08/04	11:12:00	2024/08/04	17:08:00	356.0	2.1	730
2024/08/04	23:14:00	2024/08/04	23:58:00	46.0	2.1	95
2024/08/05	00:00:00	2024/08/05	05:22:00	322.0	2.0	653
2024/08/05	07:16:00	2024/08/05	17:50:00	634.0	2.1	1,301
2024/08/06	01:20:00	2024/08/06	12:16:00	656.0	2.1	1,353
2024/08/06	20:36:00	2024/08/06	23:58:00	204.0	2.0	418
2024/08/07	00:00:00	2024/08/07	01:12:00	72.0	2.0	144
2024/08/07	06:18:00	2024/08/07	14:56:00	518.0	2.1	1,069
2024/08/08	01:06:00	2024/08/08	08:58:00	472.0	2.1	970
2024/08/08	13:10:00	2024/08/08	18:26:00	316.0	2.1	659
2024/08/09	02:14:00	2024/08/09	11:10:00	536.0	2.1	1,115
2024/08/09	16:00:00	2024/08/09	19:58:00	238.0	2.2	528
2024/08/10	02:44:00	2024/08/10	10:54:00	490.0	2.2	1,088
2024/08/10	15:10:00	2024/08/10	19:20:00	250.0	2.2	555
2024/08/11	02:52:00	2024/08/11	10:00:00	428.0	2.2	953
2024/08/11	13:54:00	2024/08/11	18:22:00	268.0	2.2	601
2024/08/12	01:44:00	2024/08/12	10:10:00	506.0	2.2	1,127
2024/08/12	14:12:00	2024/08/12	18:54:00	282.0	2.2	630
2024/08/13	02:00:00	2024/08/13	09:58:00	478.0	2.2	1,047
2024/08/13	13:42:00	2024/08/13	18:22:00	280.0	2.3	630
2024/08/14	02:02:00	2024/08/14	09:18:00	436.0	2.3	984
2024/08/14	13:24:00	2024/08/14	18:10:00	286.0	2.2	642
2024/08/15	01:50:00	2024/08/15	09:00:00	430.0	2.3	971
2024/08/15	12:52:00	2024/08/15	18:12:00	320.0	2.2	720
2024/08/16	01:44:00	2024/08/16	08:48:00	424.0	2.3	961
2024/08/16	12:28:00	2024/08/16	17:26:00	298.0	2.4	703
2024/08/17	01:34:00	2024/08/17	07:38:00	364.0	2.4	860
2024/08/17	11:40:00	2024/08/17	16:58:00	318.0	2.4	751
2024/08/18	01:32:00	2024/08/18	07:42:00	370.0	2.4	874
2024/08/18	12:02:00	2024/08/18	17:28:00	326.0	2.4	768
2024/08/19	01:06:00	2024/08/19	07:36:00	390.0	2.4	922
2024/08/19	11:44:00	2024/08/19	17:30:00	346.0	2.4	815
2024/08/20	00:46:00	2024/08/20	06:50:00	364.0	2.4	860
2024/08/20	10:58:00	2024/08/20	16:52:00	354.0	2.4	835
2024/08/21	00:50:00	2024/08/21	06:58:00	368.0	2.4	874
2024/08/21	11:12:00	2024/08/21	17:16:00	364.0	2.4	860
2024/08/22	01:02:00	2024/08/22	07:34:00	392.0	2.4	930
2024/08/22	11:50:00	2024/08/22	18:18:00	388.0	2.4	920
2024/08/23	01:08:00	2024/08/23	07:16:00	368.0	2.4	874
2024/08/23	11:30:00	2024/08/23	17:20:00	350.0	2.4	832
2024/08/23	23:32:00	2024/08/23	23:58:00	28.0	2.4	68

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

August-24

2024/08/24	00:00:00	2024/08/24	05:50:00	350.0	2.4	835
2024/08/24	10:26:00	2024/08/24	16:36:00	370.0	2.4	881
2024/08/25	00:18:00	2024/08/25	06:30:00	372.0	2.4	896
2024/08/25	10:52:00	2024/08/25	16:52:00	360.0	2.4	861
2024/08/26	00:54:00	2024/08/26	07:00:00	366.0	2.4	883
2024/08/26	11:16:00	2024/08/26	14:02:00	166.0	2.5	419
2024/08/26	16:50:00	2024/08/26	22:14:00	324.0	2.2	716
2024/08/27	04:26:00	2024/08/27	11:50:00	444.0	2.2	977
2024/08/27	18:30:00	2024/08/27	21:44:00	194.0	2.3	437
2024/08/28	04:28:00	2024/08/28	11:54:00	446.0	2.2	990
2024/08/28	17:10:00	2024/08/28	20:40:00	210.0	2.3	477
2024/08/29	03:12:00	2024/08/29	10:24:00	432.0	2.2	961
2024/08/29	14:30:00	2024/08/29	19:06:00	276.0	2.3	627
2024/08/30	02:16:00	2024/08/30	10:08:00	472.0	2.2	1,057
2024/08/30	14:26:00	2024/08/30	19:00:00	274.0	2.3	620
2024/08/31	01:42:00	2024/08/31	08:48:00	426.0	2.2	948
2024/08/31	13:02:00	2024/08/31	18:32:00	330.0	2.3	744
Totals				**23,056**	**2.2**	**51,321**
			Maximum GPM		**2.5**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

September-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/09/01	01:20:00	2024/09/01	08:28:00	428	2.2	961
2024/09/01	12:36:00	2024/09/01	18:32:00	356	2.2	801
2024/09/02	01:14:00	2024/09/02	08:44:00	450	2.2	1008
2024/09/02	12:48:00	2024/09/02	18:44:00	356	2.3	803
2024/09/03	01:18:00	2024/09/03	10:28:00	550	2.3	1238
2024/09/03	14:30:00	2024/09/03	18:56:00	266	2.3	611
2024/09/04	02:52:00	2024/09/04	09:52:00	420	2.3	957
2024/09/04	13:44:00	2024/09/04	18:06:00	262	2.3	599
2024/09/05	02:48:00	2024/09/05	09:34:00	406	2.3	927
2024/09/05	13:28:00	2024/09/05	18:06:00	278	2.3	642
2024/09/06	02:46:00	2024/09/06	09:40:00	414	2.3	954
2024/09/06	13:44:00	2024/09/06	18:08:00	264	2.3	612
2024/09/07	02:24:00	2024/09/07	08:58:00	394	2.3	908
2024/09/07	13:00:00	2024/09/07	17:44:00	284	2.3	651
2024/09/08	02:30:00	2024/09/08	09:24:00	414	2.3	952
2024/09/08	13:16:00	2024/09/08	17:44:00	268	2.3	622
2024/09/09	03:10:00	2024/09/09	09:32:00	382	2.3	879
2024/09/09	13:36:00	2024/09/09	18:14:00	278	2.3	637
2024/09/10	01:54:00	2024/09/10	08:52:00	418	2.3	957
2024/09/10	13:02:00	2024/09/10	18:36:00	334	2.3	764
2024/09/11	01:22:00	2024/09/11	08:20:00	418	2.3	953
2024/09/11	16:22:00	2024/09/11	21:48:00	326	2.5	823
2024/09/12	02:44:00	2024/09/12	08:42:00	358	2.5	901
2024/09/12	12:54:00	2024/09/12	17:34:00	280	2.5	708
2024/09/13	00:44:00	2024/09/13	05:46:00	302	2.5	769
2024/09/13	09:46:00	2024/09/13	15:46:00	360	2.5	907
2024/09/14	00:40:00	2024/09/14	06:02:00	322	2.6	826
2024/09/14	10:32:00	2024/09/14	16:22:00	350	2.5	883
2024/09/14	23:46:00	2024/09/14	23:58:00	14	2.6	37
2024/09/15	00:00:00	2024/09/15	05:14:00	314	2.6	804
2024/09/15	09:26:00	2024/09/15	15:20:00	354	2.5	896
2024/09/15	21:56:00	2024/09/15	23:58:00	124	2.6	321
2024/09/16	00:00:00	2024/09/16	03:52:00	232	2.5	591
2024/09/16	08:20:00	2024/09/16	14:18:00	358	2.6	913
2024/09/16	19:00:00	2024/09/16	23:14:00	254	2.6	651
2024/09/17	03:42:00	2024/09/17	09:32:00	350	2.5	890
2024/09/17	13:24:00	2024/09/17	18:18:00	294	2.5	748
2024/09/18	00:20:00	2024/09/18	05:54:00	334	2.6	854
2024/09/18	10:16:00	2024/09/18	16:20:00	364	2.5	923
2024/09/18	22:52:00	2024/09/18	23:58:00	68	2.6	179
2024/09/19	00:00:00	2024/09/19	04:10:00	250	2.6	647
2024/09/19	08:36:00	2024/09/19	14:38:00	362	2.5	923
2024/09/19	21:54:00	2024/09/19	23:58:00	126	2.6	329
2024/09/20	00:00:00	2024/09/20	03:08:00	188	2.6	482
2024/09/20	07:36:00	2024/09/20	13:36:00	360	2.6	920
2024/09/20	19:20:00	2024/09/20	22:46:00	206	2.6	536
2024/09/21	03:22:00	2024/09/21	09:16:00	354	2.6	904
2024/09/21	13:30:00	2024/09/21	18:20:00	290	2.6	747
2024/09/22	01:20:00	2024/09/22	06:50:00	330	2.6	844

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

September-24

2024/09/22	11:04:00	2024/09/22	16:44:00	340	2.5	864
2024/09/23	00:10:00	2024/09/23	05:20:00	310	2.6	802
2024/09/23	09:50:00	2024/09/23	15:48:00	358	2.6	913
2024/09/24	00:56:00	2024/09/24	05:54:00	298	2.6	778
2024/09/24	10:30:00	2024/09/24	15:42:00	312	2.6	806
2024/09/25	00:32:00	2024/09/25	06:00:00	328	2.6	848
2024/09/25	10:16:00	2024/09/25	15:50:00	334	2.5	852
2024/09/25	23:08:00	2024/09/25	23:58:00	52	2.6	136
2024/09/26	00:00:00	2024/09/26	04:30:00	270	2.6	695
2024/09/26	08:58:00	2024/09/26	15:04:00	366	2.6	937
2024/09/26	22:42:00	2024/09/26	23:58:00	78	2.6	207
2024/09/27	00:00:00	2024/09/27	03:36:00	216	2.6	560
2024/09/27	07:54:00	2024/09/27	14:10:00	376	2.6	966
2024/09/27	23:02:00	2024/09/27	23:58:00	58	2.6	154
2024/09/28	00:00:00	2024/09/28	03:46:00	226	2.6	586
2024/09/28	08:28:00	2024/09/28	14:24:00	356	2.6	911
2024/09/28	22:12:00	2024/09/28	23:58:00	108	2.6	283
2024/09/29	00:00:00	2024/09/29	03:16:00	196	2.6	506
2024/09/29	07:44:00	2024/09/29	13:26:00	342	2.6	877
2024/09/29	19:44:00	2024/09/29	23:34:00	230	2.6	599
2024/09/30	04:18:00	2024/09/30	09:42:00	324	2.6	830
2024/09/30	13:42:00	2024/09/30	17:50:00	248	2.6	642
Totals				**21,190**	**2.5**	**52,143**
			Maximum GPM		**2.6**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

October-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/10/01	01:44:00	2024/10/01	06:48:00	304	2.6	787
2024/10/01	11:26:00	2024/10/01	16:58:00	332	2.4	794
2024/10/02	02:06:00	2024/10/02	07:36:00	330	2.4	802
2024/10/02	11:50:00	2024/10/02	16:44:00	294	2.4	700
2024/10/03	02:44:00	2024/10/03	08:40:00	356	2.4	864
2024/10/03	13:30:00	2024/10/03	17:26:00	236	2.4	567
2024/10/04	03:12:00	2024/10/04	09:10:00	358	2.4	843
2024/10/04	13:38:00	2024/10/04	13:52:00	14	2.3	32
2024/10/04	14:04:00	2024/10/04	17:30:00	206	2.6	543
2024/10/05	01:52:00	2024/10/05	04:20:00	148	2.7	397
2024/10/05	06:08:00	2024/10/05	11:48:00	340	2.7	903
2024/10/05	18:34:00	2024/10/05	21:14:00	160	2.7	438
2024/10/06	03:38:00	2024/10/06	07:54:00	256	2.7	692
2024/10/06	12:34:00	2024/10/06	16:22:00	228	2.7	614
2024/10/07	02:16:00	2024/10/07	06:24:00	248	2.7	670
2024/10/07	11:20:00	2024/10/07	15:36:00	256	2.7	687
2024/10/08	01:00:00	2024/10/08	05:06:00	246	2.7	669
2024/10/08	09:48:00	2024/10/08	14:36:00	288	2.7	766
2024/10/08	23:26:00	2024/10/08	23:58:00	34	2.8	94
2024/10/09	00:00:00	2024/10/09	03:42:00	222	2.7	610
2024/10/09	08:10:00	2024/10/09	13:00:00	290	2.7	789
2024/10/09	19:06:00	2024/10/09	22:28:00	202	2.7	552
2024/10/10	03:22:00	2024/10/10	08:24:00	302	2.7	811
2024/10/10	12:54:00	2024/10/10	17:02:00	248	2.7	668
2024/10/10	23:50:00	2024/10/10	23:58:00	10	2.7	27
2024/10/11	00:00:00	2024/10/11	04:30:00	270	2.7	732
2024/10/11	09:06:00	2024/10/11	14:28:00	322	2.7	860
2024/10/11	21:38:00	2024/10/11	23:58:00	142	2.8	392
2024/10/12	00:00:00	2024/10/12	02:02:00	122	2.7	326
2024/10/12	06:40:00	2024/10/12	11:24:00	284	2.8	783
2024/10/12	15:24:00	2024/10/12	18:48:00	204	2.8	568
2024/10/13	00:54:00	2024/10/13	05:16:00	262	2.8	727
2024/10/13	10:02:00	2024/10/13	14:48:00	286	2.8	789
2024/10/13	22:06:00	2024/10/13	23:58:00	114	2.8	321
2024/10/14	00:00:00	2024/10/14	02:12:00	132	2.8	367
2024/10/14	06:38:00	2024/10/14	10:36:00	238	3.0	716
2024/10/14	14:50:00	2024/10/14	18:10:00	200	3.0	609
2024/10/15	00:16:00	2024/10/15	04:40:00	264	2.9	758
2024/10/15	08:58:00	2024/10/15	13:58:00	300	2.9	855
2024/10/15	20:16:00	2024/10/15	23:56:00	220	2.9	636
2024/10/16	04:22:00	2024/10/16	09:02:00	280	2.8	780
2024/10/16	13:24:00	2024/10/16	17:44:00	260	2.8	737
2024/10/16	23:26:00	2024/10/16	23:58:00	34	2.9	97
2024/10/17	00:00:00	2024/10/17	04:08:00	248	2.8	699
2024/10/17	08:26:00	2024/10/17	13:44:00	318	2.8	879
2024/10/17	18:58:00	2024/10/17	23:02:00	244	2.8	680
2024/10/18	03:26:00	2024/10/18	09:14:00	348	2.6	906
2024/10/18	13:18:00	2024/10/18	18:40:00	322	2.5	804
2024/10/19	00:06:00	2024/10/19	06:16:00	370	2.5	919

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

October-24

2024/10/19	10:28:00	2024/10/19	16:58:00	390	2.5	959
2024/10/19	23:46:00	2024/10/19	23:58:00	14	2.5	35
2024/10/20	00:00:00	2024/10/20	05:48:00	348	2.5	857
2024/10/20	10:00:00	2024/10/20	16:28:00	388	2.4	950
2024/10/20	23:24:00	2024/10/20	23:58:00	36	2.5	91
2024/10/21	00:00:00	2024/10/21	04:56:00	296	2.5	745
2024/10/21	09:10:00	2024/10/21	15:56:00	406	2.5	995
2024/10/21	22:38:00	2024/10/21	23:58:00	82	2.5	208
2024/10/22	00:00:00	2024/10/22	04:24:00	264	2.5	668
2024/10/22	08:50:00	2024/10/22	15:20:00	390	2.5	978
2024/10/22	21:40:00	2024/10/22	23:58:00	140	2.6	358
2024/10/23	00:00:00	2024/10/23	03:24:00	204	2.5	515
2024/10/23	07:34:00	2024/10/23	14:24:00	410	2.5	1022
2024/10/23	20:10:00	2024/10/23	23:58:00	230	2.5	586
2024/10/24	00:00:00	2024/10/24	01:10:00	70	2.5	174
2024/10/24	05:30:00	2024/10/24	12:12:00	402	2.4	982
2024/10/24	16:32:00	2024/10/24	20:46:00	254	2.5	627
2024/10/25	01:38:00	2024/10/25	07:58:00	380	2.5	934
2024/10/25	12:12:00	2024/10/25	18:18:00	366	2.4	896
2024/10/26	00:00:00	2024/10/26	05:42:00	342	2.5	838
2024/10/26	09:48:00	2024/10/26	16:52:00	424	2.4	1030
2024/10/26	23:04:00	2024/10/26	23:58:00	56	2.6	143
2024/10/27	00:00:00	2024/10/27	05:06:00	306	2.5	758
2024/10/27	09:38:00	2024/10/27	16:22:00	404	2.4	987
2024/10/27	22:16:00	2024/10/27	23:58:00	104	2.5	259
2024/10/28	00:00:00	2024/10/28	04:10:00	250	2.5	615
2024/10/28	08:28:00	2024/10/28	15:06:00	398	2.5	978
2024/10/28	20:12:00	2024/10/28	23:58:00	228	2.5	566
2024/10/29	00:00:00	2024/10/29	02:24:00	144	2.4	350
2024/10/29	06:36:00	2024/10/29	13:32:00	416	2.4	1018
2024/10/29	18:02:00	2024/10/29	22:56:00	294	2.5	732
2024/10/30	03:14:00	2024/10/30	10:08:00	414	2.5	1018
2024/10/30	14:18:00	2024/10/30	19:14:00	296	2.5	747
2024/10/31	00:14:00	2024/10/31	06:50:00	396	2.5	974
2024/10/31	11:10:00	2024/10/31	17:46:00	396	2.5	972
2024/10/31	22:54:00	2024/10/31	23:58:00	66	2.5	165
Totals				**21,696**	**2.6**	**55,991**
			Maximum GPM		**3.0**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

November-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/11/01	09:28:00	2024/11/01	16:16:00	408	2.5	1,010
2024/11/01	22:06:00	2024/11/01	23:58:00	114	2.5	288
2024/11/02	00:00:00	2024/11/02	04:14:00	254	2.5	632
2024/11/02	08:30:00	2024/11/02	14:36:00	366	2.5	910
2024/11/02	19:40:00	2024/11/02	23:58:00	260	2.5	657
2024/11/03	00:00:00	2024/11/03	00:56:00	40	2.4	98
2024/11/03	04:04:00	2024/11/03	10:06:00	362	2.5	908
2024/11/03	14:04:00	2024/11/03	19:08:00	304	2.5	765
2024/11/03	23:46:00	2024/11/03	23:58:00	14	2.5	36
2024/11/04	00:00:00	2024/11/04	06:02:00	362	2.5	906
2024/11/04	10:32:00	2024/11/04	16:44:00	372	2.5	927
2024/11/04	22:28:00	2024/11/04	23:58:00	92	2.5	233
2024/11/05	00:00:00	2024/11/05	04:28:00	268	2.5	669
2024/11/05	08:34:00	2024/11/05	14:48:00	374	2.5	933
2024/11/05	20:22:00	2024/11/05	23:58:00	218	2.5	551
2024/11/06	00:00:00	2024/11/06	02:30:00	150	2.5	374
2024/11/06	06:36:00	2024/11/06	13:04:00	388	2.5	969
2024/11/06	18:12:00	2024/11/06	22:48:00	276	2.5	699
2024/11/07	03:00:00	2024/11/07	09:00:00	360	2.5	906
2024/11/07	13:02:00	2024/11/07	18:04:00	302	2.5	759
2024/11/07	23:46:00	2024/11/07	23:58:00	14	2.6	36
2024/11/08	00:00:00	2024/11/08	05:40:00	340	2.5	866
2024/11/08	10:00:00	2024/11/08	16:40:00	400	2.5	1,003
2024/11/08	22:50:00	2024/11/08	23:58:00	70	2.5	178
2024/11/09	00:00:00	2024/11/09	04:54:00	294	2.5	735
2024/11/09	09:04:00	2024/11/09	15:50:00	406	2.5	1,012
2024/11/09	21:48:00	2024/11/09	23:58:00	132	2.5	333
2024/11/10	00:00:00	2024/11/10	04:18:00	258	2.5	644
2024/11/10	08:38:00	2024/11/10	15:32:00	414	2.5	1,034
2024/11/10	21:34:00	2024/11/10	23:58:00	146	2.5	370
2024/11/11	00:00:00	2024/11/11	04:10:00	250	2.5	622
2024/11/11	08:42:00	2024/11/11	15:14:00	392	2.5	980
2024/11/11	20:02:00	2024/11/11	23:58:00	238	2.5	599
2024/11/12	00:00:00	2024/11/12	02:38:00	158	2.5	393
2024/11/12	06:34:00	2024/11/12	13:46:00	432	2.5	1,074
2024/11/12	18:42:00	2024/11/12	23:58:00	318	2.5	799
2024/11/13	00:00:00	2024/11/13	01:10:00	70	2.5	172
2024/11/13	05:10:00	2024/11/13	11:46:00	396	2.5	987
2024/11/13	15:58:00	2024/11/13	22:02:00	364	2.5	909
2024/11/14	02:10:00	2024/11/14	09:14:00	424	2.5	1,059
2024/11/14	13:22:00	2024/11/14	19:02:00	340	2.5	846
2024/11/14	23:04:00	2024/11/14	23:58:00	56	2.5	142
2024/11/15	00:00:00	2024/11/15	05:52:00	352	2.5	878
2024/11/15	09:54:00	2024/11/15	16:10:00	376	2.5	936
2024/11/15	21:04:00	2024/11/15	23:58:00	176	2.5	445
2024/11/16	00:00:00	2024/11/16	03:48:00	228	2.5	569
2024/11/16	08:06:00	2024/11/16	15:02:00	416	2.5	1,040
2024/11/16	20:00:00	2024/11/16	23:58:00	240	2.5	606
2024/11/17	00:00:00	2024/11/17	02:34:00	154	2.5	384
2024/11/17	06:40:00	2024/11/17	13:54:00	434	2.5	1,091
2024/11/17	19:00:00	2024/11/17	23:58:00	300	2.5	757

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)
November-24

2024/11/18	00:00:00	2024/11/18	01:12:00	72	2.5	178
2024/11/18	05:16:00	2024/11/18	11:36:00	380	2.5	953
2024/11/18	15:38:00	2024/11/18	21:24:00	346	2.5	869
2024/11/19	01:40:00	2024/11/19	08:28:00	408	2.5	1,030
2024/11/19	12:06:00	2024/11/19	18:12:00	366	2.5	919
2024/11/19	22:42:00	2024/11/19	23:58:00	78	2.6	199
2024/11/20	00:00:00	2024/11/20	05:14:00	314	2.5	792
2024/11/20	09:24:00	2024/11/20	15:38:00	374	2.5	943
2024/11/20	19:58:00	2024/11/20	23:58:00	242	2.5	611
2024/11/21	00:00:00	2024/11/21	02:18:00	138	2.5	345
2024/11/21	06:28:00	2024/11/21	12:38:00	370	2.5	936
2024/11/21	16:52:00	2024/11/21	22:28:00	336	2.5	846
2024/11/22	02:38:00	2024/11/22	09:00:00	382	2.5	965
2024/11/22	13:14:00	2024/11/22	19:24:00	370	2.5	934
2024/11/22	23:42:00	2024/11/22	23:58:00	18	2.6	46
2024/11/23	00:00:00	2024/11/23	06:18:00	378	2.5	959
2024/11/23	10:38:00	2024/11/23	16:54:00	376	2.5	949
2024/11/23	21:24:00	2024/11/23	23:58:00	156	2.6	399
2024/11/24	00:00:00	2024/11/24	04:02:00	242	2.5	611
2024/11/24	08:22:00	2024/11/24	15:04:00	402	2.5	1,022
2024/11/24	20:02:00	2024/11/24	23:58:00	238	2.6	607
2024/11/25	00:00:00	2024/11/25	02:28:00	148	2.5	373
2024/11/25	06:36:00	2024/11/25	12:48:00	372	2.5	947
2024/11/25	17:04:00	2024/11/25	22:54:00	350	2.6	893
2024/11/26	03:08:00	2024/11/26	09:34:00	386	2.5	984
2024/11/26	13:54:00	2024/11/26	20:06:00	372	2.5	943
2024/11/27	00:26:00	2024/11/27	06:52:00	386	2.5	983
2024/11/27	11:08:00	2024/11/27	17:32:00	384	2.5	967
2024/11/27	22:10:00	2024/11/27	23:58:00	110	2.6	283
2024/11/28	00:00:00	2024/11/28	04:44:00	284	2.5	724
2024/11/28	08:40:00	2024/11/28	14:48:00	368	2.5	936
2024/11/28	19:34:00	2024/11/28	23:58:00	266	2.6	682
2024/11/29	00:00:00	2024/11/29	02:04:00	124	2.5	314
2024/11/29	06:08:00	2024/11/29	12:26:00	378	2.6	965
2024/11/29	16:30:00	2024/11/29	21:56:00	326	2.5	826
2024/11/30	01:58:00	2024/11/30	08:18:00	380	2.5	969
2024/11/30	12:26:00	2024/11/30	18:28:00	362	2.5	911
2024/11/30	23:02:00	2024/11/30	23:58:00	58	2.6	149
Totals				**24,912**	**2.5**	**62,691**
				Maximum GPM	**2.6**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

December-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/12/01	00:00:00	2024/12/01	05:18:00	318	2.5	810
2024/12/01	09:48:00	2024/12/01	15:44:00	356	2.5	903
2024/12/01	20:46:00	2024/12/01	23:58:00	194	2.5	494
2024/12/02	00:00:00	2024/12/02	02:34:00	154	2.5	388
2024/12/02	06:54:00	2024/12/02	13:26:00	392	2.5	995
2024/12/02	18:24:00	2024/12/02	23:42:00	318	2.5	808
2024/12/03	04:06:00	2024/12/03	10:00:00	354	2.6	904
2024/12/03	14:04:00	2024/12/03	18:58:00	294	2.5	746
2024/12/03	23:36:00	2024/12/03	23:58:00	24	2.6	62
2024/12/04	00:00:00	2024/12/04	05:04:00	304	2.6	777
2024/12/04	09:22:00	2024/12/04	15:36:00	374	2.5	952
2024/12/04	21:14:00	2024/12/04	23:58:00	166	2.6	426
2024/12/05	00:00:00	2024/12/05	02:50:00	170	2.5	430
2024/12/05	07:10:00	2024/12/05	12:52:00	342	2.5	871
2024/12/05	17:12:00	2024/12/05	22:04:00	292	2.5	743
2024/12/06	02:34:00	2024/12/06	08:32:00	358	2.6	913
2024/12/09	10:48:00	2024/12/09	23:58:00	792	2.5	1,982
2024/12/10	00:00:00	2024/12/10	23:58:00	1,440	2.4	3,416
2024/12/11	00:00:00	2024/12/11	08:26:00	506	2.3	1,162
2024/12/11	18:24:00	2024/12/11	23:58:00	336	2.3	762
2024/12/12	16:30:00	2024/12/12	23:58:00	450	2.2	984
2024/12/13	00:00:00	2024/12/13	08:54:00	534	2.2	1,155
2024/12/13	09:48:00	2024/12/13	10:36:00	48	2.1	100
2024/12/13	11:08:00	2024/12/13	15:24:00	256	2.3	594
2024/12/16	05:18:00	2024/12/16	14:02:00	524	2.6	1,378
2024/12/16	14:06:00	2024/12/16	14:16:00	10	2.3	23
2024/12/16	14:22:00	2024/12/16	14:24:00	2	1.5	3
2024/12/16	14:26:00	2024/12/16	14:30:00	4	1.5	6
2024/12/16	15:10:00	2024/12/16	23:58:00	530	2.6	1,389
2024/12/17	00:00:00	2024/12/17	08:42:00	522	2.6	1,348
2024/12/17	08:58:00	2024/12/17	09:14:00	16	2.3	36
2024/12/17	09:36:00	2024/12/17	09:56:00	20	2.3	47
2024/12/17	10:06:00	2024/12/17	10:38:00	32	2.4	77
2024/12/17	11:04:00	2024/12/17	11:44:00	40	2.5	98
2024/12/17	11:48:00	2024/12/17	12:00:00	12	2.1	25
2024/12/17	12:14:00	2024/12/17	13:20:00	66	2.5	164
2024/12/17	13:54:00	2024/12/17	23:58:00	606	2.5	1,538
2024/12/18	00:00:00	2024/12/18	23:58:00	1,440	2.6	3,779
2024/12/19	00:00:00	2024/12/19	15:26:00	926	2.7	2,536
2024/12/20	12:36:00	2024/12/20	23:58:00	684	2.8	1,882
2024/12/21	00:00:00	2024/12/21	16:12:00	972	2.7	2,672
2024/12/22	20:22:00	2024/12/22	23:58:00	218	2.8	617
2024/12/23	00:00:00	2024/12/23	23:58:00	1,440	2.7	3,897
2024/12/24	00:00:00	2024/12/24	00:08:00	8	2.4	19
2024/12/25	03:00:00	2024/12/25	23:58:00	1,260	2.7	3,399
2024/12/26	00:00:00	2024/12/26	08:54:00	534	2.7	1,431
2024/12/27	11:30:00	2024/12/27	23:58:00	750	2.7	1,996
2024/12/28	00:00:00	2024/12/28	17:42:00	1,062	2.6	2,813
2024/12/29	21:12:00	2024/12/29	23:58:00	168	2.7	454
2024/12/30	00:00:00	2024/12/30	23:58:00	1,440	2.7	3,827

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

December-24

2024/12/31	00:00:00	2024/12/31	04:16:00	256	2.7	683
Totals				**22,314**	**2.6**	**57,515**
				Maximum GPM	**2.8**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

APPENDIX N

GAS MIGRATION MONITORING REPORTS

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

November 22, 2024

Ms. Becky Azevedo
Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, CA 95037

Re: Fourth Quarter 2024 Perimeter gas and Methane in Structure Monitoring Report Kirby Canyon Recycling & Disposal Facility

Dear Ms. Azevedo:

This report for the "Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill" contains the results of the Fourth Quarter 2024 Perimeter Gas and Methane in Structure Monitoring conducted at the KCRDF. All monitoring was conducted by KCRDF personnel.

REGULATORY REQUIREMENTS

Requirements for monitoring are outlined in 40 CFR 258.23, Title 27 California Code of Regulations (CCR), Article 6, Gas Monitoring at Active and Closed Disposal Sites. These regulations require periodic monitoring to ensure that methane concentrations are less than 5 percent at the property boundary and less than 1.25 percent in on-site buildings and structures. Reporting requirements are presented in Title 27 §20934.

MONITORING RESULTS AND MAP [TITLE 27 §20934(a)(1), (2), (3) AND (5)]

Monitoring was conducted in accordance with 40 CFR 258.23 and Title 27, Article 6 at the locations shown in the attached map (Attachment A) and Standard Operating Procedure (SOP) for probe monitoring as detailed in (Attachment B). Results for both probes and structures are summarized in Table 1. Field data and Calibration data are presented in Attachment C.

No exceedances of Subtitle D (40 CFR 258.23) and California Code of Regulations (CCR) Title 27, Division 2, Section 20919.5 were detected during any of the monitoring events.

Results for probes and are summarized in Table 1. All other Field data sheets are presented in Attachment B.

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles **Date:** 10/18/24
Instrument: Gem 5000 **Serial #:** G502468
Atmospheric Temperature (Deg F): 61
Barometric Pressure: 30.06 **Inch of HG**
Wind Speed: 15 MPH **Wind Direction:** NW
Weather Condition: Sunny

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	8:05am	0	0.04	OK	OK	
KIRBP01B	8:09am	0	0.02	OK	OK	
KIRBP02A	8:15am	0	-0.01	OK	OK	
KIRBP02B	8:18am	0	0.00	OK	OK	
KIRBP03A	8:24am	0	-0.06	OK	OK	
KIRBP03B	8:27am	0	-0.05	OK	OK	
KIRBP04A	8:38am	0	0.01	OK	OK	
KIRBP04B	8:41am	0	0.02	OK	OK	
KIRBP05A	8:46am	0	-0.02	OK	OK	
KIRBP05B	8:49am	0	-0.04	OK	OK	
KIRBP06A	9:05am	0	-0.02	OK	OK	
KIRBP06B	9:08am	0	-0.02	OK	OK	
KIRBP07A	9:12am	0	-0.09	OK	OK	
KIRBP07B	9:15am	0	-0.07	OK	OK	
KIRBP08A	9:23am	0	-0.07	OK	OK	
KIRBP08B	9:27am	0	-0.10	OK	OK	
KIRBP09A	7:56am	0	-0.02	OK	OK	

Probe ID	Time	CH_4 (%)	Probe Pressure (in-$H_2$0)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP09B	7:58am	0	-0.01	OK	OK	
KIRBP10A	7:39am	0	0.02	OK	OK	
KIRBP10B	7:42am	0	0.00	OK	OK	
KIRBP011A	7:30am	0	0.01	OK	OK	
KIRBP011B	7:34am	0	-0.00	OK	OK	
KIRBP14A	7:15am	0	0.02	OK	OK	
KIRBP14B	7:18am	0	-0.01	OK	OK	
KIRBP15	7:08am	0	0.02	OK	OK	
KIRBP16A	7:22am	0	0.01	OK	OK	
KIRBP16B	7:27am	0	0.02	OK	OK	

ND = No detection
California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.

(2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH_4 = 12,500 ppm CH_4

Immediately notify compliance personnel of any readings in excess of 5 percent methane.

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles **Date:** 10-18-24
Instrument: TVA **Serial #:**0928538411

Monitored Location	Time	PPM	Comments
Scale House	6:30 AM	0	
Admin Building	5:45 AM	0	
Operations Break Trailer	6:10 AM	0	

MONITORING EQUIPMENT AND METHODOLOGY [TITLE 27 §20934(a)(4)]

Perimeter Gas Monitoring

The facility conducted the required monitoring using a CES-Landtec GEM-5000 gas analyzer (GEM). The monitoring was conducted by Tino Robles on October 18, 2024. The static pressure of each probe was monitored using the GEM's internal pressure transducers and the probes were monitored to determine methane concentration.

Facility Structures

Tino Robles used a TVA 1000 to monitor buildings and structures to check for the presence of methane on October 18, 2024. The instrument was calibrated on October 18, 2024, using 500 ppm methane standard.

Combustible Methane Gas Monitor Calibration

Some facility structures are monitored continuously using Sierra Monitors. The monitor is calibrated at a frequency determined by the manufacturer. The most recent calibration was conducted by Tino Robles on October 18, 2024.

GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

General weather conditions are the time of monitoring are presented in Table 3.

Table 3 General Weather Conditions

Description	October 18, 2024
General conditions	Passing Clouds
Avg Wind Speed (mph)	3.1
Wind Direction	WNW
Barometric Pressure, (Inches of Hg)	29.92
Ambient Low/High (Temperature Deg F)	55/73

If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com

Thank you,
Waste Management,

Rajan Phadnis
EP Air Specialist- Northern California-Nevada
Attachments: Perimeter Gas Probe Location Map
KCRDF Field Data

ATTACHMENT A

SITE MAP

CRAWFORD CONSULTING INC.

FIGURE 1

PERIMETER GAS PROBE LOCATIONS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
SANTA CLARA COUNTY,CALIFORNIA

DATE:	09/05/24
FILENAME:	SITE0824-LFGpr
PROJ. No.	WM8701

ATTACHMENT B

STANDARD OPERATING PROCEDURE FOR PROBE MONITORING

Kirby Recycling and Disposal Facility

Standard Operating Procedures Landfill Gas Migration Monitoring

This standard operating procedure details the process that is follow for migration monitoring at landfill gas (LFG) probes for Kirby Recycling and Disposal Facility (KCRDF). In accordance with the current KCRDF LFG Migration Monitoring Plan, there are 15 LFG probes that are required to be monitored each quarter. Monitoring procedures are detailed below:

1. Dedicated equipment that is used for the monitoring event is calibrated with current calibration gases and documented. The equipment is now operational.
2. LFG technician documents general daily weather conditions for the monitoring event including barometric pressure, windspeed, wind direction, atmospheric temperature, and ambient temperature.
3. LFG technician arrives at the first monitoring location and unlocks the probe cover. The LFG technician then removes the quick connect/valve or similar fitting from probe assembly to gain access to the probe sampling location.
4. Next the LFG technician attaches the monitoring device hose (GEM 2000/5000) to the LFG probe sampling location.
5. First step of sample collection is to open the valve on the LFG probe sampling location.
6. Next step of sample collection is to check the probe pressure and record.
7. The following step is to turn on GEM 2000/5000 pump.
8. Wait for the reading to stabilize (typically 1-4 minutes).
9. Record gas composition reading that includes methane, carbon dioxide, oxygen, and balance gases on the GEM 2000/5000.
10. LFG technician then removes sample equipment from the LFG probe and closes the valve.
11. If the current probe location includes an additional depth for monitoring, then follow procedures 1-10 above.
12. To complete the monitoring at this location, the LFG Technician closes cap and secures the lock.
13. LFG technician follows above procedure # 1-12 at each LFG probe location.
14. At the completion of the daily LFG probe monitoring, the LFG technician uploads monitoring data to WM’s Landfill Gas Management System (LGMS).

ATTACHMENT C

FIELD DATA

KCRDF Field Data October 2024

Device Name	Date Time	CH4 (Methane)(%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen)(%)	Balance Gas(%)	Relative Pressure("H2O)	Ambient Temperature(oF)	Barometric Pressure("Hg)	Wind Direction	Wind Speed(mph)	Instrument ID	Field Technician
KIRBP015	10/18/2024 7:08	0	0.1	20.6	79.3	0.02	61	29.48	N	14	G502468	FROBLES
KIRBP01A	10/18/2024 8:05	0	0.2	21.6	78.2	0.04	61	29.2	N	14	G502468	FROBLES
KIRBP01B	10/18/2024 8:09	0	0.1	21.4	78.5	0.02	61	29.2	N	14	G502468	FROBLES
KIRBP02A	10/18/2024 8:15	0	0.4	21.3	78.3	-0.01	61	29.02	N	14	G502468	FROBLES
KIRBP02B	10/18/2024 8:18	0	0.2	21.4	78.4	0	61	29.02	N	14	G502468	FROBLES
KIRBP03A	10/18/2024 8:24	0	0.2	21.5	78.3	-0.06	61	28.9	N	14	G502468	FROBLES
KIRBP03B	10/18/2024 8:27	0	0.4	21.6	78	-0.05	61	28.9	N	14	G502468	FROBLES
KIRBP04A	10/18/2024 8:38	0	0.5	21.7	77.8	0.01	61	28.78	N	14	G502468	FROBLES
KIRBP04B	10/18/2024 8:41	0	0.6	21.4	78	0.02	61	28.78	N	14	G502468	FROBLES
KIRBP05A	10/18/2024 8:46	0	0.1	21.9	78	-0.02	61	28.78	N	14	G502468	FROBLES
KIRBP05B	10/18/2024 8:49	0	0.1	22	77.9	-0.04	61	28.78	N	14	G502468	FROBLES
KIRBP06A	10/18/2024 9:05	0	0.2	21.8	78	-0.02	61	28.83	N	14	G502468	FROBLES
KIRBP06B	10/18/2024 9:08	0	0.1	21.9	78	-0.02	61	28.83	N	14	G502468	FROBLES
KIRBP07A	10/18/2024 9:12	0	0.1	21.8	78.1	-0.09	61	28.75	N	14	G502468	FROBLES
KIRBP07B	10/18/2024 9:15	0	0.1	21.4	78.5	-0.07	61	28.75	N	14	G502468	FROBLES
KIRBP08A	10/18/2024 9:23	0	0.2	21.8	78	-0.07	61	28.86	N	14	G502468	FROBLES
KIRBP08B	10/18/2024 9:27	0	0.1	21.9	78	-0.1	61	28.86	N	14	G502468	FROBLES
KIRBP09A	10/18/2024 7:56	0	0.1	21.4	78.5	-0.02	61	29.13	N	14	G502468	FROBLES
KIRBP09B	10/18/2024 7:58	0	0.1	21.8	78.1	-0.01	61	29.13	N	14	G502468	FROBLES
KIRBP10A	10/18/2024 7:39	0	0.1	21.8	78.1	0.02	61	29.14	N	14	G502468	FROBLES
KIRBP10B	10/18/2024 7:42	0	0.1	21.8	78.1	0	61	29.17	N	14	G502468	FROBLES
KIRBP11A	10/18/2024 7:30	0	0.1	21.6	78.3	0.01	61	29.2	N	14	G502468	FROBLES
KIRBP11B	10/18/2024 7:34	0	0.1	21.7	78.2	0	61	29.05	N	14	G502468	FROBLES
KIRBP14A	10/18/2024 7:15	0	0.3	21.2	78.5	0.02	61	29.38	N	14	G502468	FROBLES
KIRBP14B	10/18/2024 7:18	0	0.1	20.6	79.3	-0.01	61	29.38	N	14	G502468	FROBLES
KIRBP16A	10/18/2024 7:22	0	0.2	21.4	78.4	0.01	61	29.24	N	14	G502468	FROBLES
KIRBP16B	10/18/2024 7:27	0	0.1	21.3	78.6	0.02	61	29.24	N	14	G502468	FROBLES

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles **Date:** 10/18/24
Instrument: Gem 5000 **Serial #:** G502468
Atmospheric Temperature (Deg F): 61
Barometric Pressure: 30.06 **Inch of HG**
Wind Speed: 15 MPH **Wind Direction:** NW
Weather Condition: Sunny

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	8:05am	0	0.04	OK	OK	
KIRBP01B	8:09am	0	0.02	OK	OK	
KIRBP02A	8:15am	0	-0.01	OK	OK	
KIRBP02B	8:18am	0	0.00	OK	OK	
KIRBP03A	8:24am	0	-0.06	OK	OK	
KIRBP03B	8:27am	0	-0.05	OK	OK	
KIRBP04A	8:38am	0	0.01	OK	OK	
KIRBP04B	8:41am	0	0.02	OK	OK	
KIRBP05A	8:46am	0	-0.02	OK	OK	
KIRBP05B	8:49am	0	-0.04	OK	OK	
KIRBP06A	9:05am	0	-0.02	OK	OK	
KIRBP06B	9:08am	0	-0.02	OK	OK	
KIRBP07A	9:12am	0	-0.09	OK	OK	
KIRBP07B	9:15am	0	-0.07	OK	OK	
KIRBP08A	9:23am	0	-0.07	OK	OK	
KIRBP08B	9:27am	0	-0.10	OK	OK	
KIRBP09A	7:56am	0	-0.02	OK	OK	
KIRBP09B	7:58am	0	-0.01	OK	OK	
KIRBP10A	7:39am	0	0.02	OK	OK	

Probe ID	**Time**	**CH_4 (%)**	**Probe Pressure (in-H_20)**	**Probe Condition (clean, capped, locked)**		**Comments**
				Arrival	**Departure**	
KIRBP10B	7:42am	0	0.00	OK	OK	
KIRBP011A	7:30am	0	0.01	OK	OK	
KIRBP011B	7:34am	0	-0.00	OK	OK	
KIRBP14A	7:15am	0	0.02	OK	OK	
KIRBP14B	7:18am	0	-0.01	OK	OK	
KIRBP15	7:08am	0	0.02	OK	OK	
KIRBP16A	7:22am	0	0.01	OK	OK	
KIRBP16B	7:27am	0	0.02	OK	OK	

ND = No detection

California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.

(2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH_4 = 12,500 ppm CH_4

Immediately notify compliance personnel of any readings in excess of 5 percent methane.

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles **Date: 10-18-24**

Instrument: TVA **Serial #: 0928538411**

Monitored Location	**Time**	**PPM**	**Comments**
Scale House	6:30 AM	0	
Admin Building	5:45 AM	0	
Operations Break Trailer	6:10 AM	0	

ND = No detection

Immediately notify compliance personnel of any readings in excess of 1.25 percent methane.

GAS DETECTOR CALIBRATION RECORD

LOCATION: KIRBY CANYON RECYCLING AND DISPOSAL FACILITY

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #2001

CALIBRATED BY / INSTRUMENT USED: Cal System Model# 26

CALIBRATION GAS EXPIRATION DATE: July 12, 2025

Location	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED / COMMENTS ON MONITOR CONDITION
Main Office	10-18-24	1500700086GAM	YES	Good Condition
Scale House	10-18-24	1819303476GCN	YES	Good Condition
Break Trailer	10-18-24	1819303478GCN	YES	Good Condition

** This form must be retained for 12 months after completion.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 10/18/24

Time: 5:00 AM ________ PM

Instrument Make: Thermo Scientific Model: TVA 1000B S/N: 0928538411

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.

   Stable Reading = 501

3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 0 ppm (a)
2. Downwind Reading (highest in 30 seconds): 0 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 0 ppm

Performed by: T. Robles

CALIBRATION PRECISION TEST RECORD

Date: 10/18/24

Expiration Date (3 months): 1/18/25

Time: 5:15 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 508 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 504 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 502 ppm (f)

Calculate Precision:

$$\frac{\{|(496) - (500)| + |(500) - (498)| + |(500) - (496)|\}}{3} \times \frac{1}{500} \times 100$$

1.0 % (must be < than 10%)

Performed by: T. Robles

RESPONSE TIME TEST RECORD

Date: 10/18/24

Expiration Date (3 months): 1/18/25

Time: 5:25 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 507 ppm
90% of the Stabilized Reading: 496 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 505 ppm
90% of the Stabilized Reading: 495 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 502 ppm
90% of the Stabilized Reading: 489 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3} =$ 10 seconds (must be less than 30 seconds)

Performed by: T. Robles

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

September 4, 2024

Ms. Becky Azevedo
Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, CA 95037

Re: Third Quarter 2024 Perimeter gas and Methane in Structure Monitoring Report
Kirby Canyon Recycling & Disposal Facility

Dear Ms. Azevedo:

This report for the "Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill" contains the results of the Third Quarter 2024 Perimeter Gas and Methane in Structure Monitoring conducted at the KCRDF. All monitoring was conducted by KCRDF personnel.

REGULATORY REQUIREMENTS

Requirements for monitoring are outlined in 40 CFR 258.23, Title 27 California Code of Regulations (CCR), Article 6, Gas Monitoring at Active and Closed Disposal Sites. These regulations require periodic monitoring to ensure that methane concentrations are less than 5 percent at the property boundary and less than 1.25 percent in on-site buildings and structures. Reporting requirements are presented in Title 27 §20934.

MONITORING RESULTS AND MAP [TITLE 27 §20934(a)(1), (2), (3) AND (5)]

Monitoring was conducted in accordance with 40 CFR 258.23 and Title 27, Article 6 at the locations shown in the attached map (Attachment A) and Standard Operating Procedure (SOP) for probe monitoring as detailed in (Attachment B). One of the existing perimeter gas probe (KIRBP12A and KIRBP12B) was decommissioned in Second Quarter and replaced with a new perimeter gas probe (KIRBP16A and KIRBP16B). Results for both probes and structures are summarized in Table 1. Field data and Calibration data are presented in Attachment C.

No exceedances of Subtitle D (40 CFR 258.23) and California Code of Regulations (CCR) Title 27, Division 2, Section 20919.5 were detected during any of the monitoring events.

Results for probes and are summarized in Table 1. All other Field data sheets are presented in Attachment B.

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles **Date:** 7/15/24
Instrument: Gem 5000 **Serial #:** G502468
Atmospheric Temperature (Deg F): 81
Barometric Pressure: 30.00 **Inch of HG**
Wind Speed: 4 MPH **Wind Direction:** SW
Weather Condition: Sunny

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	11:16am	0	0.02	OK	OK	
KIRBP01B	11:20am	0	-0.03	OK	OK	
KIRBP02A	11:25am	0	0.03	OK	OK	
KIRBP02B	11:32am	0	-0.04	OK	OK	
KIRBP03A	11:37am	0	-0.04	OK	OK	
KIRBP03B	11:40am	0	0.00	OK	OK	
KIRBP04A	11:44am	0	-0.02	OK	OK	
KIRBP04B	11:46am	0	0.00	OK	OK	
KIRBP05A	11:50am	0	0.02	OK	OK	
KIRBP05B	11:53am	0	-0.01	OK	OK	
KIRBP06A	11:57am	0	0.01	OK	OK	
KIRBP06B	12:00pm	0	-0.03	OK	OK	
KIRBP07A	12:04am	0	-0.02	OK	OK	
KIRBP07B	12:07pm	0	-0.01	OK	OK	
KIRBP08A	12:13pm	0	0.04	OK	OK	
KIRBP08B	12:18pm	0	0.01	OK	OK	

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP09A	12:27pm	0	-0.04	OK	OK	
KIRBP09B	12:30pm	0	-0.03	OK	OK	
KIRBP10A	12:36pm	0	-0.02	OK	OK	
KIRBP10B	12:38am	0	-0.01	OK	OK	
KIRBP011A	12:47am	0	0.04	OK	OK	
KIRBP011B	12:52am	0	0.03	OK	OK	
KIRBP14A	12:56am	0	0.07	OK	OK	
KIRBP14B	12:59am	0	0.04	OK	OK	
KIRBP15	11:02am	0	-0.05	OK	OK	
KIRBP16A	5:44am	0	0.04	OK	OK	New Probe Location-Probe reading taken on 9/3/2024
KIRBP16B	5:47am	0	0.02	OK	OK	New Probe Location-Probe reading taken on 9/3/2024

00

ND = No detection
California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.

(2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH_4 = 12,500 ppm CH_4

Immediately notify compliance personnel of any readings in excess of 5 percent methane.

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles **Date: 7-18-24**
Instrument: TVA **Serial #:0928538411**

Monitored Location	Time	PPM	Comments
Scale House	5:25 AM	0	
Admin Building	5:15 AM	0	
Operations Break Trailer	5:45 AM	0	

MONITORING EQUIPMENT AND METHODOLOGY [TITLE 27 §20934(a)(4)]

Perimeter Gas Monitoring

The facility conducted the required monitoring using a CES-Landtec GEM-5000 gas analyzer (GEM). The monitoring was conducted by Tino Robles on July 15 and September 3, 2024. The static pressure of each probe was monitored using the GEM's internal pressure transducers and the probes were monitored to determine methane concentration.

Facility Structures

Tino Robles used a TVA 1000 to monitor buildings and structures to check for the presence of methane on July 18, 2024. The instrument was calibrated on July 18, 2024, using 500 ppm methane standard.

Combustible Methane Gas Monitor Calibration

Some facility structures are monitored continuously using Sierra Monitors. The monitor is calibrated at a frequency determined by the manufacturer. The most recent calibration was conducted by Tino Robles on July 18, 2024.

GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

General weather conditions are the time of monitoring are presented in Table 3.

Table 3 General Weather Conditions

Description	July 15, 2024	September 3, 2024
General conditions	Sunny	Passing clouds
Avg Wind Speed (mph)	11.2	6.2
Wind Direction	NNW	N
Barometric Pressure, (Inches of Hg)	30.00	29.99
Ambient Low/High (Temperature Deg F)	73/79	63/73

If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com

Thank you,
Waste Management,

Rajan Phadnis
EP Air Specialist- Northern California-Nevada
Attachments: Perimeter Gas Probe Location Map
KCRDF Field Data

ATTACHMENT A

SITE MAP

BASE: Google Earth Pro, 2018.

CRAWFORD CONSULTING INC.

FIGURE 1

PERIMETER GAS PROBE LOCATIONS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
SANTA CLARA COUNTY,CALIFORNIA

DATE:	09/05/24
FILENAME:	SITE0824–LFGpr
PROJ. No.	WM8701

ATTACHMENT B

STANDARD OPERATING PROCEDURE FOR PROBE MONITORING

Kirby Recycling and Disposal Facility

Standard Operating Procedures Landfill Gas Migration Monitoring

This standard operating procedure details the process that is follow for migration monitoring at landfill gas (LFG) probes for Kirby Recycling and Disposal Facility (KCRDF). In accordance with the current KCRDF LFG Migration Monitoring Plan, there are 15 LFG probes that are required to be monitored each quarter. Monitoring procedures are detailed below:

1. Dedicated equipment that is used for the monitoring event is calibrated with current calibration gases and documented. The equipment is now operational.
2. LFG technician documents general daily weather conditions for the monitoring event including barometric pressure, windspeed, wind direction, atmospheric temperature, and ambient temperature.
3. LFG technician arrives at the first monitoring location and unlocks the probe cover. The LFG technician then removes the quick connect/valve or similar fitting from probe assembly to gain access to the probe sampling location.
4. Next the LFG technician attaches the monitoring device hose (GEM 2000/5000) to the LFG probe sampling location.
5. First step of sample collection is to open the valve on the LFG probe sampling location.
6. Next step of sample collection is to check the probe pressure and record.
7. The following step is to turn on GEM 2000/5000 pump.
8. Wait for the reading to stabilize (typically 1-4 minutes).
9. Record gas composition reading that includes methane, carbon dioxide, oxygen, and balance gases on the GEM 2000/5000.
10. LFG technician then removes sample equipment from the LFG probe and closes the valve.
11. If the current probe location includes an additional depth for monitoring, then follow procedures 1-10 above.
12. To complete the monitoring at this location, the LFG Technician closes cap and secures the lock.
13. LFG technician follows above procedure # 1-12 at each LFG probe location.
14. At the completion of the daily LFG probe monitoring, the LFG technician uploads monitoring data to WM’s Landfill Gas Management System (LGMS).

ATTACHMENT C

FIELD DATA

KCRDF Field Data July and September 2024

Device Name	Date Time	CH4 (Methane)(%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen)(%)	Balance Gas(%)	Balance Gas/O2	Relative Pressure("H2O)	Ambient Temperature(oF)	Barometric Pressure("Hg)	Wind Direction	Wind Speed(mph)	Instrument ID	Field Technician
KIRBP015	7/15/2024 11:02	0.0	0.8	11	88.2	8.02	-0.05	81	29.5	S	4	G502468	FROBLES
KIRBP01A	7/15/2024 11:16	0.0	1.2	17.8	81	4.55	0.02	81	29.2	S	4	G502468	FROBLES
KIRBP01B	7/15/2024 11:20	0.0	0.4	19.1	80.5	4.21	-0.03	81	29.2	S	4	G502468	FROBLES
KIRBP02A	7/15/2024 11:25	0.0	0.8	19	80.2	4.22	0.03	81	29.0	S	4	G502468	FROBLES
KIRBP02B	7/15/2024 11:32	0.0	0.1	19.5	80.4	4.12	-0.04	81	29.1	S	4	G502468	FROBLES
KIRBP03A	7/15/2024 11:37	0.0	0.1	19.2	80.7	4.2	-0.02	81	28.9	S	4	G502468	FROBLES
KIRBP03B	7/15/2024 11:40	0.0	0.3	18.4	81.3	4.42	0	81	28.9	S	4	G502468	FROBLES
KIRBP04A	7/15/2024 11:44	0.0	0.6	19	80.4	4.23	-0.02	81	28.8	S	4	G502468	FROBLES
KIRBP04B	7/15/2024 11:46	0.0	0.4	18.9	80.7	4.27	0	81	28.8	S	4	G502468	FROBLES
KIRBP05A	7/15/2024 11:50	0.0	0.5	19.4	80.1	4.13	0.02	81	28.8	S	4	G502468	FROBLES
KIRBP05B	7/15/2024 11:53	0.0	0.2	18.7	81.1	4.34	-0.01	81	28.8	S	4	G502468	FROBLES
KIRBP06A	7/15/2024 11:57	0.0	0.4	19.6	80	4.08	0.01	81	28.8	S	4	G502468	FROBLES
KIRBP06B	7/15/2024 12:00	0.0	0.0	19.8	80.2	4.05	-0.03	81	28.8	S	4	G502468	FROBLES
KIRBP07A	7/15/2024 12:04	0.0	0.0	19.9	80.1	4.03	-0.02	81	28.8	S	4	G502468	FROBLES
KIRBP07B	7/15/2024 12:07	0.0	0.0	19.9	80.1	4.03	-0.01	81	28.6	S	4	G502468	FROBLES
KIRBP08A	7/15/2024 12:13	0.0	0.0	20.1	79.9	3.98	0.04	81	28.9	S	4	G502468	FROBLES
KIRBP08B	7/15/2024 12:18	0.0	0.1	19.7	80.2	4.07	0.01	81	28.9	S	4	G502468	FROBLES
KIRBP09A	7/15/2024 12:27	0.0	0.5	18.9	80.6	4.26	-0.04	81	29.2	S	4	G502468	FROBLES
KIRBP09B	7/15/2024 12:30	0.0	0.4	19.6	80	4.08	-0.03	81	29.2	S	4	G502468	FROBLES
KIRBP10A	7/15/2024 12:36	0.0	0.3	19.7	80	4.06	-0.02	81	29.2	S	4	G502468	FROBLES
KIRBP10B	7/15/2024 12:38	0.0	0.1	19.7	80.2	4.07	-0.01	81	29.2	S	4	G502468	FROBLES
KIRBP11A	7/15/2024 12:47	0.0	0.9	18.8	80.3	4.27	0.04	81	29.2	S	4	G502468	FROBLES
KIRBP11B	7/15/2024 12:52	0.0	0.1	19.6	80.3	4.1	0.03	81	29.2	S	4	G502468	FROBLES
KIRBP14A	7/15/2024 12:56	0.0	0.1	19.5	80.4	4.12	0.07	81	29.4	S	4	G502468	FROBLES
KIRBP14B	7/15/2024 12:59	0.0	0.3	18.7	81	4.33	0.04	81	29.4	S	4	G502468	FROBLES
KIRBP16A	9/4/2024 5:44	0.0	0.1	19.7	80.2	4.07	0.04	60	29.2	N	5	G502468	FROBLES
KIRBP16B	9/4/2024 5:47	0.0	0.2	19.9	79.9	4.02	0.02	60	29.1	N	5	G502468	FROBLES

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles **Date:** 7/15/24
Instrument: Gem 5000 **Serial #:** G502468
Atmospheric Temperature (Deg F): 81
Barometric Pressure: 30.00 **Inch of HG**
Wind Speed: 4 MPH **Wind Direction:** SW
Weather Condition: Sunny

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	Q3 Probes data download on 7/15/24
KIRBP01A	11:16am	0	0.02	OK	OK	
KIRBP01B	11:20am	0	-0.03	OK	OK	
KIRBP02A	11:25am	0	0.03	OK	OK	
KIRBP02B	11:32am	0	-0.04	OK	OK	
KIRBP03A	11:37am	0	-0.04	OK	OK	
KIRBP03B	11:40am	0	0.00	OK	OK	
KIRBP04A	11:44am	0	-0.02	OK	OK	
KIRBP04B	11:46am	0	0.00	OK	OK	
KIRBP05A	11:50am	0	0.02	OK	OK	
KIRBP05B	11:53am	0	-0.01	OK	OK	
KIRBP06A	11:57am	0	0.01	OK	OK	
KIRBP06B	12:00pm	0	-0.03	OK	OK	
KIRBP07A	12:04am	0	-0.02	OK	OK	
KIRBP07B	12:07pm	0	-0.01	OK	OK	
KIRBP08A	12:13pm	0	0.04	OK	OK	
KIRBP08B	12:18pm	0	0.01	OK	OK	
KIRBP09A	12:27pm	0	-0.04	OK	OK	
KIRBP09B	12:30pm	0	-0.03	OK	OK	
KIRBP10A	12:36pm	0	-0.02	OK	OK	

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	Q3 Probes data download on 7/15/24
KIRBP10B	12:38am	0	-0.01	OK	OK	
KIRBP011A	12:47am	0	0.04	OK	OK	
KIRBP011B	12:52am	0	0.03	OK	OK	
KIRBP14A	12:56am	0	0.07	OK	OK	
KIRBP14B	12:59am	0	0.04	OK	OK	
KIRBP15	11:02am	0	-0.05	OK	OK	
KIRBP16A	5:44am	0	0.04	OK	OK	**Sample & Data download on 9-3-24**
KIRBP16B	5:47am	0	0.02	OK	OK	**Sample & Data download on 9-3-24**

ND = No detection

California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.

(2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH_4 = 12,500 ppm CH_4

Immediately notify compliance personnel of any readings in excess of 5 percent methane.

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles **Date: 7-18-24**

Instrument: TVA **Serial #: 0928538411**

Monitored Location	Time	PPM	Comments
Scale House	5:25 AM	0	
Admin Building	5:15 AM	0	
Operations Break Trailer	5:45 AM	0	

ND = No detection

Immediately notify compliance personnel of any readings in excess of 1.25 percent methane.

GAS DETECTOR CALIBRATION RECORD

LOCATION: KIRBY CANYON RECYCLING AND DISPOSAL FACILITY

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #2001

CALIBRATED BY / INSTRUMENT USED: Cal System Model# 26

CALIBRATION GAS EXPIRATION DATE: July 12, 2025

Location	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED / COMMENTS ON MONITOR CONDITION
Main Office	7-18-24	1500700086GAM	YES	Good Condition
Scale House	7-18-24	1819303476GCN	YES	Good Condition
Break Trailer	7-18-24	1819303478GCN	YES	Good Condition

** This form must be retained for 12 months after completion.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 7/18/24

Time: 5:10 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000B S/N: 0928538411

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.

   Stable Reading = 501
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 0 ppm (a)
2. Downwind Reading (highest in 30 seconds): 0 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 0 ppm

Performed by: ______

CALIBRATION PRECISION TEST RECORD

Date: 6/27/2024

Expiration Date (3 months): 9/27/2024

Time: 6:05 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 503 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 501 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

$$\frac{\{|(496) - (500)| + |(500) - (498)| + |(500) - (496)|\}}{3} \times \frac{1}{500} \times 100$$

1.0 % (must be < than 10%)

Performed by: T. Robles

RESPONSE TIME TEST RECORD

Date: 6/27/24

Expiration Date (3 months): 9/27/24

Time: 6:15 AM ______ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 502 ppm
90% of the Stabilized Reading: 493 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 490 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 504 ppm
90% of the Stabilized Reading: 495 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = \underline{10} \text{ seconds (must be less than 30 seconds)}$$

Performed by: T.Robles

APPENDIX O

A-12 FLARE PERFORMANCE TEST SUMMARY OF RESULTS

Kirby Canyon Recycling and Disposal Facility

BAAQMD Facility # 1812

Compliance Test Report #24065

Landfill Gas Flare A-12

Located at:
Kirby Canyon Recycling and Disposal Facility
910 Coyote Creek Drive
Morgan Hill, CA 95037

Prepared for:
SCS Engineers
3117 Fite Circle, Suite 108
Sacramento, CA 95827

Attn: Maria Bowen
mbowen@scsengineers.com

For Submittal to:
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
Attn: Gloria Espena/Marco Hernandez

gespena@baaqmd.gov/mhernandez@baaqmd.gov
sourcetest@baaqmd.gov

Testing Performed on:
February 14, 2024

Final Report Submitted on:
April 11, 2024

Performed and Reported by:
Blue Sky Environmental, Inc.
2273 Lobert Street
Castro Valley, CA 94546

Office (510) 508-3469/Mobile (810) 923-3181
bluesky@blueskyenvironmental.com

REVIEW AND CERTIFICATION

Team Leader:

The work performed herein was conducted under my supervision, and I certify that:

a) the details and results contained within this report are to the best of my knowledge an authentic and accurate representation of the test program,

b) that the sampling and analytical procedures and data presented in the report are authentic and accurate,

c) that all testing details and conclusions are accurate and valid, and

d) that the production rate and/or heat input rate during the source test are reported accurately.

If this report is submitted for compliance purposes, it should only be reproduced in its entirety. If there are any questions concerning this report, please contact me at (810) 923-3181.

Jeramie Richardson
President
Blue Sky Environmental, Inc.

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SECTION 1. INTRODUCTION

1.1. Summary

Blue Sky Environmental, Inc. was contracted by SCS Engineers to perform emissions testing for Waste Management of California, Inc. at the Kirby Canyon Recycling and Disposal Facility in Morgan Hill, California. Testing was conducted to demonstrate that Landfill Gas Flare A-12 is operating in compliance with Condition 1437 of the Bay Area Air Quality Management District (BAAQMD) Permit to Operate for Facility 1812.

The results of the test program are presented in this report. The source test information is summarized in Table 1-1. Test results derived from the source test are summarized in Table 1-2. Results for individual test runs are provided in Appendix A. The flare met all compliance emission criteria.

Table 1-1 Source Test Information

Test Location:	Kirby Canyon Recycling and Disposal Facility (KCRDF) 910 Coyote Creek Drive, Morgan Hill, CA 95037
Source Contact:	Maria Bowen, SCS Engineers (619) 455-9518
Source Tested:	Flare A-12 – 129 MMBtu/hr LFG Specialties, Inc. enclosed landfill gas flare
Source Test Date:	February 14, 2024
Test Objective:	Determine compliance with condition 1437 of the Bay Area Air Quality Management District (BAAQMD) permit to operate for Plant 1812; BAAQMD Regulation 8, Rule 34; and the State Landfill Methane Gas Rule under AB32 for Flare performance.
Test Performed by:	Blue Sky Environmental, Inc. 2273 Lobert Street, Castro Valley, CA 94546 Jaime Rios (925) 482-4504 bluesky@blueskyenvironmental.com
Test Parameters:	Landfill Gas O_2, N_2, CO_2, BTU, THC, CH_4, NMOC, HHV, F-Factor, sulfur and VOC species, volumetric flow rate Flare Emissions THC, CH_4, NMOC, NO_X, CO, O_2, SO_2, moisture, volumetric flow rate.

Table 1-2 Compliance Summary

Condensate ON

Emission Parameter	Average Results (Flare A-12)	Permit Limit	Compliance Status
NO_X, lb/MMBtu	0.0439	0.06	In Compliance
CO, lb/MMBtu	0.0704	0.3	In Compliance
SO_2, ppmvd	53.8	300	In Compliance
NMOC, ppmvd @ 3% O_2	<2.5	30	In Compliance
NMOC Destruction Efficiency, %	>98.72%	>98%	In Compliance
CH_4 Destruction Efficiency, %	>99.97%	>99%	In Compliance

Condensate OFF

Emission Parameter	Average Results (Flare A-12)	Permit Limit	Compliance Status
NO_X, lb/MMBtu	0.0383	0.06	In Compliance
CO, lb/MMBtu	0.0619	0.3	In Compliance
SO_2, ppmvd	67.0	300	In Compliance
NMOC, ppmvd @ 3% O_2	<2.5	30	In Compliance
NMOC Destruction Efficiency, %	>98.68%	>98%	In Compliance
CH_4 Destruction Efficiency, %	>99.97%	>99%	In Compliance

SECTION 2. SOURCE TEST PROGRAM

2.1. Overview

This annual source test was performed to demonstrate that Landfill Gas Flare A-12 is operating in accordance with Condition 1437 of the Bay Area Air Quality Management District (BAAQMD) Permit to Operate for Facility #1812 and BAAQMD Regulation 8, Rule 34. This testing also satisfies the compliance requirements outlined in the State Landfill Methane Gas Rule under AB32 for Flare performance.

2.2. Pollutants Tested

The following U.S. Environmental Protection Agency (EPA) and ASTM International sampling and analytical methods were used:

EPA Method 1	Sample and Traverse Point Determination
EPA Method 3A	O_2 and CO_2, Stack Gas Molecular Weight
EPA Method 10	CO
EPA Method 7E	NO_X and NO_2 Converter Check
EPA Method 4	Moisture Calculation
EPA Method 19	Flow Rate Calculation DSCFM
EPA Method 25A	VOC Emissions
EPA Method 25C	TNMHC (NMOC) in fuel
ASTM D-1945/3588	BTU, F-Factor and Fixed Gases in Fuel
ASTM D-5504	Sulfur Species, Hydrogen Sulfide (H_2S) and TRS
EPA Method TO-15	Toxic Organic Compounds

2.3. Test Date

Testing was conducted on February 14, 2024.

2.4. Sampling and Observing Personnel

Testing was conducted by Jaime Rios and Vince Gigli, representing Blue Sky Environmental, Inc.

Ben Traver of SCS Engineers was present to operate the flare and assist in coordinating testing and the collection of process data during testing.

BAAQMD was notified of the scheduled testing in a source test plan submitted by SCS Engineers on behalf of Waste Management on January 10, 2024 (NST-9007). No agency observers from the district were present during the test program. A copy of the source test protocol is provided in Appendix I.

2.5. Source/Process Description

Kirby Canyon Recycling and Disposal Facility, located in Morgan Hill, California, is a multi-material landfill with a gas collection system that is abated by an industrial landfill gas flare. Flare A-12 has a 129 MMBtu/hr multiple nozzle burner. The flare shell is 50 feet high and 12.5 feet in diameter. The inside diameter (ID) is approximately 138 inches.

The flare temperature set-point is established at 1,490 °F. Methane quality typically ranges from 46 - 52%, with an oxygen content of ≤1.5%. Landfill gas condensate that is collected is periodically injected into the flare via one vertical nozzle positioned near the burner.

2.6. Source Operating Conditions

The flare was operated on landfill gas under normal operating conditions during testing with the condensate injection both on and off. The condensate injection rate averaged 0.82 gallons per minute (gpm) while in the "on" position.

The average exhaust temperature at normal operating condition was 1,462 °F. The LFG flow rate ranged from 2,056 to 2,075 SCFM. The operating exhaust temperature, and LFG flow rate records are provided in Appendix F.

Landfill gas samples collected at the head of the flare had an average methane content of 48.8% and an oxygen content of 2.1%.

SECTION 3. SAMPLING AND ANALYSIS PROCEDURES

3.1. Port Location

Sampling was conducted at the 50-foot exhaust stack of the flare through ports that were accessed with a 60-foot boom lift. The four 4-inch flange ports were located 45 feet above grade, approximately four stack diameters downstream from the burners and one stack diameter upstream from the exhaust.

3.2. Point Description/Labeling – Ports/Stack

Blue Sky Environmental, Inc. conducted two perpendicular 8-point traverses of the stack to check for the presence of stratification. The traverse points for the 138-inch diameter stack with 4-inch ports were 8.4, 18.5, 30.8, 48.6, 97.4, 115.2, 127.5 and 137.6 inches. O_2 stratification was greater than 10%; therefore, subsequent CEM sampling was conducted using all traverse points.

3.3. Sample Train Description

Sampling system diagrams are provided in Appendix H. Additional descriptive information is included in the following section.

3.4. Sampling Procedure Description

Six consecutive 30-minute gaseous emissions tests were conducted for oxides of nitrogen (NO_X), nitric oxide (NO), carbon monoxide (CO), carbon dioxide (CO_2), oxygen (O_2), methane (CH_4) and non-methane organic compounds (NMOC) at the flare exhaust stack. Three tests were performed with the condensate injection on and three tests were performed with the condensate injection off.

The sampling system was checked for leaks before the start of the testing, by plugging the sample probe and observing the sample rotameter flow drop to zero. Instrument linearity and system bias were checked. The system response time for each analyzer was recorded. The temperatures of the heated sample line between the probe and sample conditioner/condenser, and the condenser exhaust temperatures were maintained within limits during each test run.

Analyzer external calibrations were performed before and after each run using EPA protocol certified gas standards. Calibration gases were introduced to the sample manifold at the same flow rate as the sample. A NOx analyzer converter efficiency check was performed before the first test run and achieved an efficiency greater than 90%.

Concurrent with the exhaust sampling, Blue Sky collected a total of six integrated fuel samples (three samples with the condensate injection on and three samples with the condensate injection off) for off-site analysis by Atmospheric Analysis & Consulting, Inc. (AAC), in Ventura, CA. The samples were collected in 6-liter SUMMA canisters and analyzed for hydrocarbons by EPA Method 25, sulfur species (including H_2S and TRS) by ASTM D-5504, toxic organic compounds by EPA Method TO-15 (AP-42 2.4-1), and HHV, F-factor, fixed gases, volatile organic compounds (VOCs), nonmethane organic compounds (NMOCs) and C^1-C^{6+} hydrocarbons by EPA Method 25C and ASTM D-1945.

The sampling and analysis procedures are summarized below:

EPA Method 1 – Sample and Velocity Traverses for Stationary Sources

This method is used to determine the duct or stack area and appropriate traverse points that represent equal areas of the duct for sampling and velocity measurements.

EPA Method 3A – Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)

This method is used to measure oxygen and carbon dioxide in stationary source emissions using a continuous instrumental analyzer to determine the molecular weight of the stack gas. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. A small portion of the sample is passed through a fuel cell type paramagnetic oxygen analyzer which measures the electrical current generated by the oxidation reaction at the gas/fuel cell interface. Carbon dioxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon dioxide absorbs infrared radiation.

EPA Method 7E – Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)

This method is used to measure nitrogen oxides in stationary source emissions using a continuous instrumental analyzer. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Nitric oxide is determined by passing the sample through a chemiluminescent analyzer. The chemiluminescent process is based on the light given off when nitric oxide and ozone react. Nitrogen dioxide (NO_2) concentrations are determined by passing the sample through a catalyst which reduces the NO_2 to NO. The total oxides of nitrogen concentration (NO_2 + NO) is then determined by chemiluminescence.

Section 16.2.2 of the method is used to determine the NO_X analyzer NO_2 to NO conversion efficiency.

EPA Method 10 – Determination of Carbon Monoxide Emissions from Stationary Sources

This method is used to measure carbon monoxide from integrated or continuous gas samples extracted from a sampling point. . A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Carbon monoxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon monoxide absorbs infrared radiation.

EPA Methods 3A, 7E and 10 are all continuous monitoring techniques using instrumental analyzers. Sampling is performed by extracting exhaust flue gas from the stack, conditioning the sample, and analyzing it by continuous monitoring gas analyzers in a continuing emissions monitoring (CEM) test van. The sampling system consists of a stainless steel sample probe, Teflon sample line, glass-fiber particulate filter, and glass moisture-knockout condensers in ice, followed by thermoelectric coolers (optional), Teflon sample transfer tubing, a diaphragm pump, and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 PSI is provided to each analyzer to avoid pressure variable response differences. The entire sampling system is leak checked prior to and at the end of the sampling program.

The sampling and analytical system is checked for linearity with zero, mid (40-60%) and high span (80-100%) calibrations and is checked for system bias at the beginning and end of each run. System bias is determined by introducing calibration gas to the probe and pulling it through the entire sampling system. Individual test run calibrations use the calibration gas that most closely matches the stack gas effluent. All calibrations during testing are performed externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test. EPA Methods 3A, 7E and 10 all defer to EPA Method 7E for the calculations of effluent concentration, span, calibration gas, analyzer calibration error (linearity), sampling system bias, zero drift, calibration drift and response time.

EPA Method 4 – Determination of Moisture Content in Stack Gas

This method is used to determine the moisture content of stack gas. The sample is extracted and condensed in Greenburg-Smith impingers immersed in an ice bath and in a final impinger silica gel trap. The moisture is condensed in a solution of de-ionized water, or solutions of another type of sampling train if the moisture is being determined as part of another sampling method, such as EPA Method 5, SCAQMD Method 201.7 or BAAQMD ST-32. The moisture gain in the impinger solutions and silica gel is determined volumetrically and gravimetrically respectively.

QA/QC procedures require that a minimum of 21 cubic feet of sample is pulled using a leak tight pump. The sample volume is measured with a calibrated dry gas meter. The impingers are immersed in an ice bath to maintain a gas outlet temperature of less than 68°F. Pre-test leak checks are performed for each run using a minimum of 15 inches of mercury vacuum. Post-test leak checks are performed at the highest sample vacuum or greater. The leak test is acceptable if the leak rate is less than 0.02 cubic feet per minute or 4% of the average sampling rate, whichever is less. If the final leak check exceeds the criteria, either the volume is corrected based on the leak rate or the run is voided and repeated.

EPA Method 19 – Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emission Rates

This method is used to determine stack gas volumetric flow rates using oxygen-based F-factors. F-factors are ratios of combustion gas volumes to heat inputs. The heating value of the fuel in Btu per cubic foot is determined from analysis of fuel gas samples using ASTM D1946/1945 gas chromatography analytical procedures. The total cubic feet per hour of fuel multiplied times the Btu/cf provides million Btu per hour (MMBtu) heat input. The heat input in MMBtu/hr is multiplied by the F-factor (DSCF/MMBtu) and adjusted for the measured oxygen content of the source to determine volumetric flow rate. The flow rates are used to determine emission rates.
301.

EPA Method 25A – Determination of Total Gaseous Organic Concentration using a Flame Ionization Analyzer

This method is used to measure total hydrocarbons, methane, and non-methane hydrocarbons in stationary source emissions using a gas chromatograph with a flame ionization detector (GC/FID). Heated Teflon sample gas transfer lines are used to provide a continuous sample to the heated GC/FID hydrocarbon analyzer. Heated lines are used to avoid moisture or hydrocarbon condensation.

The sampling and analytical system is checked for linearity with zero, low (25-35%), mid (45-55%), and high (80-90%) span calibrations. All calibrations during testing are performed externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test.

EPA Method 25C – Determination of Nonmethane Organic Compounds (NMOC) in Landfill Gas

This method is used to sample and measure NMOC in landfill gases. Gases are collected in a pre-evacuated 6-Liter SUMMA canister with pre-set flow controller set to integrate over the desired test duration. The SUMMA® passivated canisters allow holding times up to 14 days. The sample gas is drawn by the canister vacuum through a micro-filter, pre-set orifice flow controller and on/off valve into the canister. The canister vacuum is monitored with a vacuum gauge to verify sample collection. The flow controller consists of capillary orifice tubing designed to sample for a pre-set duration of 0.5 hrs. The sample is injected into a GC column where the methane and CO_2 are flushed through and removed then the NMOC (ROC) fraction is oxidized to form CO_2 then reduced to methane and analyzed.

ASTM D1945 – Analysis of Natural Gas by Gas Chromatography

This method is used to measure fixed gases (such as oxygen, nitrogen, carbon monoxide, and carbon dioxide) and methane by gas chromatography (GC/TCD). Light hydrocarbons, including C1-C7, are analyzed by GC/FID.

ASTM D-3588 – Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels

This method uses the molar composition of gaseous fuel determined from Method ASTM D-1945 to calculate the heating value and F-factor.

ASTM D-5504 – Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

This method is used for the determination of speciated volatile sulfur-containing compounds in high methane content gaseous fuels by gas chromatography. Sulfur compounds are processed using a flame ionization detector (GC/FID). The products are then analyzed with a sulfur chemiluminescence detector (GC/SCD). Samples may be collected in Tedlar bags and analyzed within 24 hours or in Silco SUMMA canisters and analyzed within 7 days.

EPA Compendium Method TO-15 – Determination of Toxic Organic Compounds in Ambient Air

This method is used to measure volatile organic compounds that are included in the hazardous air pollutants (HAPs) listed in Title III of the Clean Air Act Amendments of 1990 by GC/MS (gas chromatography/mass spectroscopy). Samples are collected in pre-evacuated 6-Liter SUMMA canisters with pre-set flow controllers set to integrate over the desired test duration. The SUMMA® passivated canisters allow holding times up to 14 days for the TO-15 Method list of volatile organics. The sample gas is drawn by the canister vacuum through a micro-filter, pre-set orifice flow controller and on/off valve into the canister. The canister vacuum is monitored with a vacuum gauge to verify sample collection. The flow controller consisted of capillary orifice tubing designed to sample for a pre-set duration of 0.75hrs.

3.5. Instrumentation and Analytical procedures

The following continuous emissions analyzers were used:

Instrumentation	Parameter	Principle
TECO Model 42C	NO_X/NO/NO_2	Chemiluminescence
TECO Model 48C	CO	Gas Filter Correlation/IR
TECO Model 55C	NMOC/CH_4	Flame Ionization (FID)
Servomex Model 1400	CO_2	Infrared (IR)
Servomex Model 1400	O_2	Paramagnetic

3.6. System Performance Criteria

The analyzer data recording system consists of a data acquisition system (DAS). The instrument response was recorded on DAS. The averages were corrected for drift using BAAQMD and EPA Method 7E equations. All system performance criteria were met.

Instrument Linearity	≤2% Full Scale
Instrument Bias	≤5% Full Scale
System Response Time	≤± 2 minutes
NO_X Converter Efficiency *(EPA Method 7E)*	≥ 90%
Instrument Zero Drift	≤± 3% Full Scale
Instrument Span Drift	≤± 3% Full Scale

3.7. Comments: Limitations and Data Qualifications

This source test was performed in accordance with the protocol submitted to BAAQMD. No deviations from the protocol or anomalies were observed during testing. The measured emissions from the flare comply with the permit limits.

Blue Sky Environmental, Inc. has reviewed this report for accuracy and concluded that the test procedures were followed and accurately described and documented. The review included the following items:

Review of the general text
Review of calculations
Review of CEMS data
Review of supporting documentation

The services described in this report were performed in a manner consistent with the generally accepted professional testing principles and practices. No other warranty, expressed or implied, is made. These services were performed in a manner consistent with our agreement with our client. The report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions contained in this report pertain to conditions existing when services were performed and are intended only for the client purposes, locations, time frames, and operating parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to this, and do not warranty the accuracy of information supplied by others.

SECTION 4. APPENDICES

A. Tabulated Results

B. Calculations

C. Laboratory Reports

D. Field Data Sheets

E. Strip Charts

F. Process Information

G. QC Calibration Certificates and Quality Assurance Records

H. Sample Train Configuration and Stack Diagrams

I. Related Correspondence (Source Test Plan and Email)

J. BAAQMD Permit Conditions

K. Flare Flow Meter Calibration Records

A
Tabulated Results

Table #1

Kirby Canyon Recycling & Disposal Facility
Flare A-12
Condensate - ON

Parameter	**Run 1**	**Run 2**	**Run 3**	**Average Results**	**Permit Limits**
Test Date	2/14/24	2/14/24	2/14/24		
Test Time	0859-0936	1014-1052	1132-1209		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,462	1,462	1,462	1,462	>1,400
Fuel:					
Condensate Injection, gpm	0.83	0.82	0.82	0.82	
Fuel Flow Rate, SCFM	2,056	2,060	2,062	2,059	
Fuel Heat Input, MMBtu/hr	55.7	59.1	61.0	58.6	
Stack Gas:					
Exhaust Flow Rate, DSCFM *(EPA Method 19)*	24,885	25,131	24,593	24,869	
Oxygen (O_2), % volume dry	13.5	13.1	12.7	13.1	
Carbon Dioxide (CO_2), % volume dry	6.47	6.87	7.31	6.88	
Water Vapor (H_2O), % volume *(EPA Method 4)*	6.95	6.52	6.17	6.55	
NO_X Emissions (calculated as NO_2):					
NOx, ppmvd	12.6	14.7	16.4	14.6	
NOx, ppmvd @ 15% O_2	10.0	11.1	11.8	11.0	
NOx, lb/hr	2.23	2.64	2.88	2.58	
NOx, lb/MMBtu	0.0401	0.0446	0.0472	0.0439	0.06
CO Emissions:					
CO, ppmvd	31.1	47.5	36.2	38.2	
CO, ppmvd @ 15% O_2	24.7	36.0	26.0	28.9	
CO, lb/hr	3.36	5.18	3.86	4.13	
CO, lb/MMBtu	0.0603	0.0877	0.0633	0.0704	0.3
SO_2 Emissions:					
Total Reduced Sulfurs as H_2S, ppmvd in Fuel	288	781	879	649	
SO_2, ppmvd *(calculated)*	23.8	64.0	73.7	53.8	300
Methane (CH_4) Emissions:					
CH_4, ppmvd wet *(EPA Method 25A)*	<10.0	<10.0	<10.0	<10.0	
CH_4, ppmvd dry	<10.7	<10.7	<10.7	<10.7	
CH_4, lb/hr	<0.664	<0.670	<0.656	<0.663	
NMOC Emissions (calculated as CH_4):					
NMOC, ppmv wet *(EPA Method 25A)*	<1.0	<1.0	<1.0	<1.0	
NMOC, ppmvd	<1.1	<1.1	<1.1	<1.1	
NMOC, ppmvd @ 3% O_2	<2.6	<2.5	<2.3	<2.5	30*
NMOC, lb/hr	<0.066	<0.067	<0.066	<0.066	
THC Emissions (reported as CH_4):					
THC, ppmvd *(Sum NMOC + CH4)*	<11.8	<11.8	<11.8	<11.8	
THC, lb/hr	<0.730	<0.737	<0.722	<0.730	
Inlet Hydrocarbons (calculated as CH_4):					
Inlet CH_4, ppmvd	454,000	481,000	496,000	477,000	
Inlet CH_4, lb/hr	2,317	2,460	2,539	2,439	
CH_4 Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	>99%
Inlet NMOC *(EPA Method 25C)*	960	1,012	1,085	1,019	
Inlet NMOC, lb/hr	4.90	5.18	5.55	5.21	
NMOC Destruction Efficiency, %	>98.65%	>98.70%	>98.82%	>98.72%	>98%*
Inlet THC, ppmvd	454,960	482,012	497,085	478,019	
Inlet THC, lb/hr	2,322	2,465	2,544	2,444	
THC Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	

* NMOC emission limits are 30 ppmvd @ 3% O_2 or destruction efficiency >98%

DEFINITIONS:

ppmvd = parts per million concentration by volume expressed on a dry gas basis
lb/hr = pound per hour emission rate
Tstd. = standard temperature (°R = °F+460)
MW = molecular weight
DSCFM = dry standard cubic foot per minute
NO_X = oxides of nitrogen, reported as NO_2 (MW = 46)
CO = carbon monoxide (MW = 28)
CH_4 = methane (MW = 16)
THC = total hydrocarbons reported as CH_4 (MW = 16)
NMOC = non-methane organic compounds reported as CH_4 (MW = 16)

CALCULATIONS:

ppm @ 15% O_2 = ppm · 5.9 / (20.9 - %O_2)
ppm @ 3% O_2 = ppm · 17.9 / (20.9 - %O_2)
lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R
lb/MMBtu = Fd · MW · ppm · 2.59E-9 · 20.9/(20.9 - %O_2)
Destruction Efficiency = (inlet, lb/hr- outlet, lb/hr) / inlet, lb/hr

< Value = 2% of Analyzer Range
TRS = total reduced sulfurs, reported as sulfur dioxide (SO_2)

Table #2

Landfill Gas Characterization

Kirby Canyon Recycling & Disposal Facility
Flare A-12
Condensate - ON

Parameter	Units	Run 1	Run 2	Run 3	Average Results
Test Date		2/14/24	2/14/24	2/14/24	-
Acrylonitrile	ppb	<46.8	<48.9	<47.0	<47.6
Bromodichloromethane	ppb	<46.8	<48.9	<47.0	<47.6
Carbon Tetrachloride	ppb	<46.8	<48.9	<47.0	<47.6
Chlorobenzene	ppb	150	163	172	162
Chlorodifluoromethane	ppb	189	186	202	192
Chloromethane	ppb	<46.8	<48.9	<47.0	<47.6
Chloroethane	ppb	184	199	211	198
Chloroform	ppb	<46.8	<48.9	<47.0	<47.6
1,1 Dichloroethane (Ethylidene Dichloride)	ppb	<46.8	<48.9	<47.0	<47.6
1,1 Dichloroethene (Vinylidene Chloride)	ppb	<46.8	<48.9	<47.0	<47.6
1,2 Dichloroethane (Ethylene Dichloride)	ppb	<46.8	<48.9	<47.0	<47.6
1,2 Dichloropropane	ppb	<46.8	<48.9	<47.0	<47.6
1,4 Dichlorobenzene	ppb	757	818	865	813
Dichlorodifluoromethane	ppb	89.9	92.9	<47.0	76.6
Dichlorofluoromethane	ppb	160	172	193	175
1,4 Dioxane	ppb	<93.7	<98	<94.0	<95.1
Ethanol	ppb	13,600	12,500	14,900	13,667
Ethylbenzene	ppb	4,300	4,580	4,750	4,543
Ethlyene Dibromide (1,2 Dibromoethane)	ppb	<46.8	<48.9	<47.0	<47.6
Fluorotrichloromethane (Trichlorofluoromethane)	ppb	143	150	160	151
Hexane	ppb	651	696	767	705
Isopropyl Alcohol (IPA)	ppb	9,500	10,200	5,500	8,400
Methyl Ethyl Ketone (MEK) (2-Butanone)	ppb	10,400	9,770	10,500	10,223
Methylene Chloride	ppb	<93.7	<98	<94.0	<95.1
Methyl isobutyl ketone (MiBK)	ppb	1,090	1,140	1,300	1,177
Perchloroethylene (Tetrachloroethylene)	ppb	131	137	158	142
1,1,1 Trichlororethane	ppb	<46.8	<48.9	<47.0	<47.6
1,1,2,2 Tetrachloroethane	ppb	<46.8	<48.9	<47.0	<47.6
trans-1,2-Dichloroethane	ppb	<46.8	<48.9	<47.0	<47.6
Trichloroethylene (Trichloroethene)	ppb	<108.0	<111.0	<121.0	<113.3
Vinyl Chloride	ppb	<46.8	<48.9	<47.0	<47.6
Xylenes	ppb	9,410	9,960	10,430	9,933
Ethane	ppm	5.99	6.17	3.20	5.12
Propane	ppm	15.1	15.2	3.7	11.3
Butane	ppm	6.20	5.72	5.28	5.73
Pentane	ppm	12.2	12.4	7.3	10.6
Carbon Disulfide	ppm	<0.094	<0.098	0.246	<0.146
Carbonyl Sulfide (COS/SO_2)	ppm	<0.094	<0.098	<0.094	<0.095
Dimethyl Sulfide	ppm	2.38	2.23	2.38	2.33
Ethyl Mercaptan	ppm	<0.094	<0.098	0.480	<0.224
Methyl Mercaptan	ppm	4.11	4.660	5.38	4.72
Hydrogen Sulfide (H_2S)	ppm	276	766	863	635
Total Reduced Sulfurs as H_2S	ppm	288	781	879	649

Table #3

Kirby Canyon Recycling & Disposal Facility
Flare A-12
Condensate - OFF

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	2/14/24	2/14/24	2/14/24		
Test Time	1236-1313	1339-1418	1441-1516		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,462	1,462	1,462	1,462	>1,400
Fuel:					
Condensate Injection, gpm	0.00	0.00	0.00	0.00	
Fuel Flow Rate, SCFM	2,069	2,075	2,073	2,072	
Fuel Heat Input, MMBtu/hr	62.0	61.9	61.5	61.8	
Stack Gas:					
Exhaust Flow Rate, DSCFM *(EPA Method 19)*	25,036	25,494	25,184	25,238	
Oxygen (O_2), % volume dry	12.7	12.9	12.8	12.8	
Carbon Dioxide (CO_2), % volume dry	7.26	7.19	7.22	7.22	
Water Vapor (H_2O), % volume *(EPA Method 4)*	6.81	6.19	5.75	6.25	
NO_X Emissions (calculated as NO_2):					
NOx, ppmvd	13.3	13.0	13.2	13.1	
NOx, ppmvd @ 15% O_2	9.6	9.5	9.6	9.6	
NOx, lb/hr	2.4	2.4	2.4	2.4	
NOx, lb/MMBtu	0.0383	0.0382	0.0385	0.0383	0.06
CO Emissions:					
CO, ppmvd	31.7	42.1	30.7	34.8	
CO, ppmvd @ 15% O_2	22.8	31.0	22.4	25.4	
CO, lb/hr	3.45	4.67	3.35	3.82	
CO, lb/MMBtu	0.0556	0.0754	0.0546	0.0619	0.3
SO_2 Emissions:					
Total Reduced Sulfurs as H_2S, ppmvd in Fuel	978	660	809	816	
SO_2, ppmvd *(calculated)*	80.8	53.7	66.6	67.0	300
Methane (CH_4) Emissions:					
CH_4, ppmvd wet *(EPA Method 25A)*	<10.0	<10.0	<10.0	<10.0	
CH_4, ppmvd dry	<10.7	<10.7	<10.7	<10.7	
CH_4, lb/hr	<0.667	<0.679	<0.671	<0.672	
NMOC Emissions (calculated as CH_4):					
NMOC, ppmv wet *(EPA Method 25A)*	<1.0	1.2	<1.0	<1.1	
NMOC, ppmvd	<1.1	1.2	<1.1	<1.1	
NMOC, ppmvd @ 3% O_2	<2.3	2.8	<2.4	<2.5	30[*]
NMOC, lb/hr	<0.067	0.079	<0.067	<0.071	
THC Emissions (reported as CH_4):					
THC, ppmvd *(Sum NMOC + CH4)*	<11.8	<12.0	<11.8	<11.9	
THC, lb/hr	<0.734	<0.758	<0.738	<0.743	
Inlet Hydrocarbons (calculated as CH_4):					
Inlet CH_4, ppmvd	502,000	500,000	497,000	499,667	
Inlet CH_4, lb/hr	2,578	2,576	2,558	2,570	
CH_4 Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	>99%
Inlet NMOC *(EPA Method 25C)*	780	1,157	1,332	1,090	
Inlet NMOC, lb/hr	4.01	5.96	6.85	5.61	
NMOC Destruction Efficiency, %	>98.34%	>98.68%	>99.02%	>98.68%	>98%[*]
Inlet THC, ppmvd	502,780	501,157	498,332	500,756	
Inlet THC, lb/hr	2,582	2,581	2,564	2,576	
THC Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	

[*] NMOC emission limits are 30 ppmvd @ 3% O_2 or destruction efficiency >98%

DEFINITIONS:

ppmvd = parts per million concentration by volume expressed on a dry gas basis
lb/hr = pound per hour emission rate
Tstd. = standard temperature (°R = °F+460)
MW = molecular weight
DSCFM = dry standard cubic foot per minute
NO_X = oxides of nitrogen, reported as NO_2 (MW = 46)
CO = carbon monoxide (MW = 28)
CH_4 = methane (MW = 16)
THC = total hydrocarbons reported as CH_4 (MW = 16)
NMOC = non-methane organic compounds reported as CH_4 (MW = 16)

CALCULATIONS:

ppm @ 15% O_2 = ppm · 5.9 / (20.9 - %O_2)
ppm @ 3% O_2 = ppm · 17.9 / (20.9 - %O_2)
lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R
lb/MMBtu = Fd · MW · ppm · 2.59E-9 · 20.9/(20.9 - %O_2)
Destruction Efficiency = (inlet, lb/hr- outlet, lb/hr) / inlet, lb/hr

< Value = 2% of Analyzer Range
TRS = total reduced sulfurs, reported as sulfur dioxide (SO_2)

Table #4

Landfill Gas Characterization

Kirby Canyon Recycling & Disposal Facility
Flare A-12
Condensate - OFF

Parameter	Units	Run 1	Run 2	Run 3	Average Results
Test Date		2/14/24	2/14/24	2/14/24	-
Acrylonitrile	ppb	<44.7	<46.0	<40.2	<43.6
Bromodichloromethane	ppb	<44.7	<46.0	<40.2	<43.6
Carbon Tetrachloride	ppb	<44.7	<46.0	<40.2	<43.6
Chlorobenzene	ppb	188	183	184	185
Chlorodifluoromethane	ppb	217	222	220	220
Chloromethane	ppb	<44.7	<46.0	<40.2	<43.6
Chloroethane	ppb	246	223	204	224
Chloroform	ppb	<44.7	<46.0	<40.2	<43.6
1,1 Dichloroethane (Ethylidene Dichloride)	ppb	<44.7	<46.0	<40.2	<43.6
1,1 Dichloroethene (Vinylidene Chloride)	ppb	<44.7	<46.0	<40.2	<43.6
1,2 Dichloroethane (Ethylene Dichloride)	ppb	<44.7	<46.0	<40.2	<43.6
1,2 Dichloropropane	ppb	48.3	<46.0	49.9	48.1
1,4 Dichlorobenzene	ppb	944	866	785	865
Dichlorodifluoromethane	ppb	<44.7	104	105	85
Dichlorofluoromethane	ppb	207	195	194	199
1,4 Dioxane	ppb	<89.4	<91.9	<80.5	<87.3
Ethanol	ppb	15,000	24,100	16,600	18,567
Ethylbenzene	ppb	5,020	4,840	4,690	4,850
Ethlyene Dibromide (1,2 Dibromoethane)	ppb	<44.7	<46.0	<40.2	<43.6
Fluorotrichloromethane (Trichlorofluoromethane)	ppb	178	169	163	170
Hexane	ppb	824	794	793	804
Isopropyl Alcohol (IPA)	ppb	5,840	5,990	6,130	5,987
Methyl Ethyl Ketone (MEK) (2-Butanone)	ppb	10,100	11,200	11,300	10,867
Methylene Chloride	ppb	<89.4	<91.9	<80.5	<87.3
Methyl isobutyl ketone (MiBK)	ppb	1,310	1,260	1,260	1,277
Perchloroethylene (Tetrachloroethylene)	ppb	162	158	161	160
1,1,1 Trichlororethane	ppb	<44.7	<46.0	<40.2	<43.6
1,1,2,2 Tetrachloroethane	ppb	<44.7	<46.0	<40.2	<43.6
trans-1,2-Dichloroethane	ppb	<44.7	<46.0	<40.2	<43.6
Trichloroethylene (Trichloroethene)	ppb	124	123	113	120
Vinyl Chloride	ppb	69.8	<46.0	62.0	59.3
Xylenes	ppb	11,020	10,670	10,230	10,640
Ethane	ppm	6.41	5.98	6.20	6.20
Propane	ppm	17.8	17.6	17.8	17.7
Butane	ppm	7.51	7.97	8.12	7.87
Pentane	ppm	15.1	14.0	13.5	14.2
Carbon Disulfide	ppm	0.258	<0.092	<0.080	<0.143
Carbonyl Sulfide (COS/SO$_2$)	ppm	<0.089	<0.092	<0.080	<0.087
Dimethyl Sulfide	ppm	3.19	2.34	2.64	2.72
Ethyl Mercaptan	ppm	0.584	<0.092	<0.080	<0.252
Methyl Mercaptan	ppm	6.39	4.77	5.30	5.49
Hydrogen Sulfide (H$_2$S)	ppm	959	646	794	800

APPENDIX P

A-12 FLARE 12-MONTH SULFUR DIOXIDE EMISSIONS LOG

12-MONTH CONSECUTIVE SOx Emission Rate (Tons/Year) :2024 Parti

Kirby Canyon Recycling & Disposal Facility

Plant #1812, Condition 1437 Item 20

Month	SO$_2$ (Tons/Month)	SO$_2$ (12- Months Tons)
July-24	6.0	55.5
August-24	6.4	58.0
September-24	6.1	60.5
October-24	6.0	63.2
November-24	5.8	65.6
December-24	5.8	66.9

Pursuant to Title V Permit A1812, Condition Number 25301 Part 20, the Sulfur dioxide emissions from Flare A-12 shall not exceed 300 ppmv of SO2 and sulfur dioxide emissions from A-12 shall not exceed 94.9 tons per year.

To demonstrate compliance with above limits, the site will conduct annual testing of total TRS at the landfill gas main header. The most recent TRS value will be used to calculate the monthly SO2 emissions in tons.

Appendix O includes table with SO$_2$ 12-month tons during the reporting period. The sulfur dioxide emissions from A-12 did not exceed 94.9 tons per year.