Kirby Canyon Recycling & Disposal Facility
A Waste Management Company

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1. ☐ RECEIVED IN ENFORCEMENT: 07/29/2021

July 20, 2021

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

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

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 January 1, 2021 through June 30, 2021 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

Enrique Perez
Responsible Official

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
January 1, 2021 through June 30, 2021

Submitted on:
July 29, 2021

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 January 1, 2021 through June 30, 2021. During the timeframe included in this report from January 1, 2021 through June 30, 2021, the site began compliance activities with specific condition of Subpart OOO related to wellhead temperature 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 25, 2021. 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 25, 2021, 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 January 1, 2021 through June 30, 2021. 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

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 shutdown for more than five days on any one occasion. The downtime for the 2021 partial calendar year (January 1, 2021 through June 30, 2021) is 47.1 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 ten (10) 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 2021 partial calendar year (January 1, 2021 through June 30, 2021) is 47.1 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, BAAQMD issued KCRDF Notice of Violation ("NOV") Number A-57374 dated March 12, 2021, for alleged temporary flare shutdown events caused by unplanned utility power outages on January 2 and 9, February 9 and 11, March 17, April 3, May 8, 9, and 27, June 9 and 30, July 12, August 24, September 27, and December 29, 2020 ("NOV Dates"). KCRDF submitted via email the 10-day NOV response and Title V 10-day letters on March 19, 2021, and Title V 30-day letter on April 6, 2021. 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 1,549°F on a three-hour average basis, while in operation during the reporting period (January 1, 2021 through April 14, 2021), pursuant to the limits established during the March 4, 2020 Performance Test. The flare operating records also indicate that the A-12 Flare combustion zone temperature did not drop below 1,514°F on a three-hour average basis, while in operation during the reporting period (April 15, 2021 through June 30, 2021), pursuant to the limits established during the February 25, 2021 Performance Test.

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:

- January 29, 2021
- February 25, 2021
- March 24, 2021
- April 26,2021
- May 25 and 26, 2021
- June 25, 2021

During March 2021 monthly monitoring event, it was noted that there was one location with erosion. The corrective action was completed on March 26, 2021 by adding cover to the location. During May 2021 monthly monitoring event, it was noted that there was one location with erosion. The corrective action was completed on May 25 and 26, 2021 by adding cover to the areas on the slopes. No other breaches of cover integrity (e.g. cover cracks or exposed garbage) were found during the reporting period. See Appendix E, Cover Integrity Monitoring Reports, for more detail.

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:

- First Quarter 2021 – February 23, 2021
- Second Quarter 2021 – May 17 and 18, 2021

A Thermo Scientific Toxic Vapor Analyzer 1000 (TVA1000) flame ionization detector (FID) was used to perform the SEM during the First and Second Quarter 2021 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 First and Second Quarter 2021 monitoring events, the monitoring equipment was calibrated using zero air and a 500 parts per million by volume (ppmv) methane (CH_4) calibration gas.

The First Quarter 2021 SEM was performed on February 23, 2021 and fourteen (14) 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 March 3, 2021, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on March 23, 2021 and no exceedances were detected.

The Second Quarter 2021 SEM was performed on May 17 and 18, 2021 and twenty-eight (28) exceedances (FID readings greater than 500 ppm CH_4 above background measurements) were detected. Corrective actions were completed. The first ten-day re-monitoring event was conducted on May 27 and 18, 2021 and one (1) exceedance was detected. The second ten-day re-monitoring event was conducted on June 4, 2021, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on June 16, 2021 and no exceedances were detected.

The First and Second Quarter 2021 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:

- First Quarter 2021 – February 23, 2021
- Second Quarter 2021- May 18,2021

A Thermo Scientific TVA1000 FID was used to perform both the First and Second 2021 2021 component leak testing events. No exceedances of 1,000 ppm were identified during the First and Second 2021 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 January 1, 2021 through June 30, 2021. The current waste-in-place figure includes solid waste placed in the landfill through June 30, 2021. 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
January 1, 2021 through June 30, 2021	111, 724 tons
Current Waste-In-Place as of June 30, 2021	Approximately 7.94 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 June 21, 2021, the site began compliance activities with specific conditions of 40 CFR part 62, Subpart F and Subpart OOO relating to wellhead temperature standards. The well readings for January 1, 2021 through June 30, 2021 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:

- January 12, 13 and 14, 2021
- February 11, 12, 16 and 20, 2021
- March 3, 4, 8, 15, 16 and 17, 2021
- April 12, 13, 14 and 16, 2021
- May 3, 5, 6 and 7, 2021
- June 4, 5, 8, and 9, 2021

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 January 1, 2021 through June 30, 2021. During this reporting period, there were no additional exceedances associated with specific conditions of 40 CFR part 62, Subpart F and Subpart OOO relating to wellhead temperature standards.

2.10.2 Higher Operating Value (HOV) Wells

During the reporting period, the following wells were approved to operate at a higher operating value (HOV) temperature of 145°F: 51, 57, 58, 65, 66, 71, 74, 78, 86, 91, 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 and calibrated 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 January 1, 2021 through June 30, 2021, 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 – January 1, 2021 through June 30, 2021

Emission Control Device	Average Flow (scfm)	Methane (%)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heat Input (MMBTU)
A-12 Flare	2,084	46.7	536,948,461	250,581,050	253,839

scfm = standard cubic feet per minute CH_4 = methane % = percent scf = standard cubic feet
**Methane concentration from February 25, 2021 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 January 1, 2021 through June 30, 2021. 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)
January -21	2.4	70,727	855,413
February-21	2.3	67,707	832,428
March-21	2.3	82,094	818,009
April-21	2.5	68,901	798,112
May-21	2.4	70,764	788,848
June-21	2.3	59,123	801,321

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, four vertical wells were decommissioned and twelve new vertical wells were started pursuant to Title V Permit Condition 1437 Part 6.

As of June 30, 2021, the GCCS system consists of 73 vertical wells, 0 horizontal collectors, and 3 leachate collection risers (LCRS).

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

A total of 465.62 tons of contaminated soil containing volatile organic compounds (VOCs) greater than 50 parts per million (ppm) was received during the reporting period. 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 156 hours during the 12-month period, January 1, 2020 through December 31, 2020. S-8 operated a total of 48 hours during the 6-month reporting period, January 1, 2021 through June 30, 2021. S-8 used a total of approximately 154 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 conducted March 4, 2020 and February 25, 2021) 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 and 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 25, 2021, 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 2021 Source Test Report was submitted to the BAAQMD on April 15, 2021, within 60 days of the test date. The source test results for the above control device is included in Appendix O.

Table 3-2 A-12 Flare Performance Test Results – February 25, 2021

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)	2.45	2.35	30 ppmv	In Compliance
NO_x, lbs/MMBTU	0.050	0.039	0.06	In Compliance
CO, lbs/MMBTU	0.003	0.004	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 12, 2020 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 2,058 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:

- First Quarter 2021 – March 10 and 12, 2021
- Second Quarter 2021 – April 19 and June 25, 2021

All probes were in compliance with no detections above the 5.0 percent methane limit during the First and Second Quarter 2021 monitoring events. There were no LFG migration occurrences at the KCRDF, and no areas of concern were identified during the First and Second Quarter 2021 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 (January 1, 2021 through June 30, 2021). The following information is included as required:

- During the reporting period, sixteen (16) A-12 Flare SSM events occurred. 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, ten (10) wellfield SSM events occurred. Details are included in the Wellfield SSM Log, located in Appendix C.
- During the reporting period, one (1) monitoring/recorder equipment SSM events occurred.
- In all twenty-seven (27) 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

7-21-21

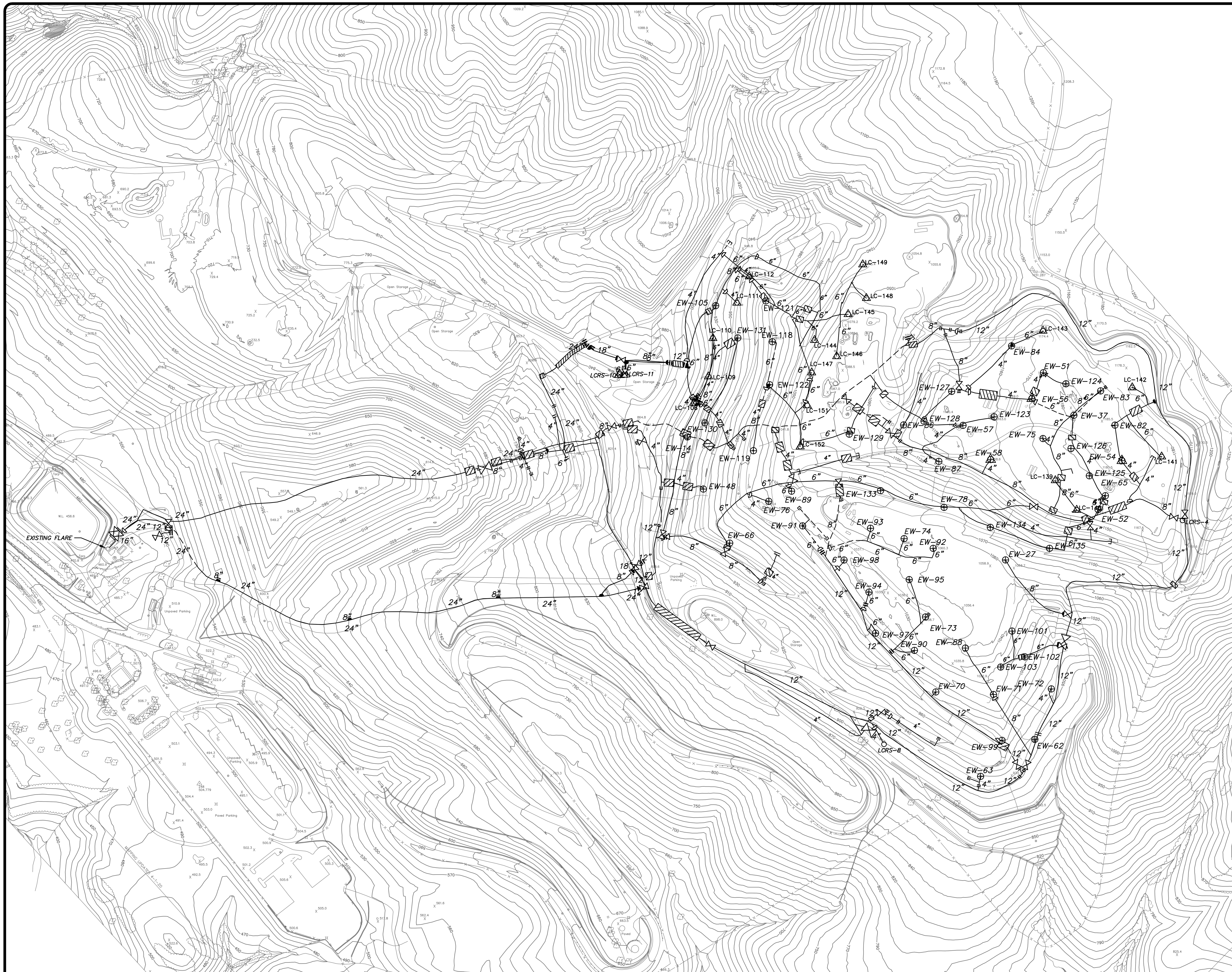
Date

Enrique Perez

Name of Responsible Official

APPENDIX A

LANDFILL GAS COLLECTION SYSTEM SITE MAP



LEGEND

1400 (line)	EXISTING 10' CONTOUR
12" (solid line)	EXISTING ABOVEGROUND PIPING
12" (dashed line)	EXISTING BELOWGROUND PIPING
(dash-dot line)	EXISTING HORIZONTAL COLLECTOR
⊕ 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
(hatched bar)	EXISTING ROAD CROSSING
○ RISER	EXISTING RISER
⊣	EXISTING CAP ON EXISTING PIPE

N

0 200 400

SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
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.

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 11/12/2020 — DRAWN BY GVP — DESIGNED BY CME — CHECKED BY NB — APPROVED BY PJS

TETRA TECH

KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

AS-BUILT SITE PLAN

SHEET NO. **1**

PROJECT NO. 200125

File: X:\PROJECTS\KIRBY CANYON\200125 – 2020 AS-BUILT UPDATE\Project Drawings\200125–KIRBY CYN_2020 FINAL AS BUILT_Rev201112.dwg Layout: S1 User: CHELSEA.EVANS Nov 13, 2020 – 9:38am

APPENDIX B

FLARE SSM LOG AND GCCS DOWNTIME REPORT

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

Completed By: Markus Bernard/Rajan Phadnis

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
SSMP REPORT - From January 1 2021 through June 30, 2021

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 x Shutdown Event Malfunction Event	1/05/21 00:24	1/05/21 00:28	0.07	11.43	Flare was shutdown due to low temperature alarm. Technician checked field for possible air leak. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/5/2021	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	1/05/21 11:50	1/05/21 11:56	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/5/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	1/20/21 12:00	1/20/21 12:04	0.07	0.50	Flare was shutdown during generator hook-up and generator rotation test. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/20/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	1/20/21 12:30	1/20/21 12:36	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/20/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	1/20/21 12:44	1/20/21 12:48	0.07	0.37	Flare was shutdown during generator hook-up and generator rotation test. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/20/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	1/20/21 13:06	1/20/21 13:12	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/20/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/09/21 11:18	2/09/21 11:22	0.07	0.40	Flare was shutdown during power surge. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/9/2021	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/09/21 11:42	2/09/21 11:48	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/9/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/09/21 11:52	2/09/21 11:56	0.07	0.33	Flare was shutdown during startup sequence. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/9/2021	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/09/21 12:12	2/09/21 12:18	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/9/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/11/21 12:26	2/11/21 12:30	0.07	0.33	Flare was shutdown during annual internal inspection by vendor. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/11/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/11/21 12:46	2/11/21 12:52	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/11/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/17/21 07:34	2/17/21 07:38	0.07	12.37	Flare was shutdown during replacement of burner arms and crown. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/17/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/17/21 19:56	2/17/21 20:02	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/17/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/24/21 09:32	2/24/21 09:36	0.07	0.17	Flare was shutdown due to low temperature alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/24/2021	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/24/21 09:42	2/24/21 09:48	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/24/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	3/05/21 09:36	3/05/21 09:40	0.07	3.83	Flare was shutdown during well and piping construction project. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/5/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	3/05/21 13:26	3/05/21 13:32	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/5/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	4/27/21 08:32	4/27/21 08:36	0.07	1.57	Flare was shutdown during blower maintenance. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/27/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	4/27/21 10:06	4/27/21 10:12	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/27/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	

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

Completed By: Markus Bernard/Rajan Phadnis

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
SSMP REPORT - From January 1 2021 through June 30, 2021

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 x Shutdown Event Malfunction Event	4/27/21 10:12	4/27/21 10:16	0.07	0.20	Flare was shutdown during blower maintenance. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/27/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	4/27/21 10:24	4/27/21 10:30	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/27/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	4/30/21 06:44	4/30/21 06:48	0.07	1.93	Flare callout system initiated automatic shutdown. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/30/2021	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	4/30/21 08:40	4/30/21 08:46	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/30/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	6/03/21 20:06	6/03/21 20:10	0.07	0.43	Flare was shutdown due to high vacuum alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/3/2021	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	6/03/21 20:32	6/03/21 20:38	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/3/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	6/08/21 11:52	6/08/21 11:56	0.07	0.23	Flare was shutdown during blower inspection. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/8/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	6/08/21 12:06	6/08/21 12:12	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/8/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	6/09/21 07:18	6/09/21 07:22	0.07	2.07	Flare was shutdown due to high KOP level. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/9/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	6/09/21 09:22	6/09/21 09:28	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/9/2021	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	6/15/21 23:38	6/15/21 23:42	0.07	10.93	Flare was shutdown due to high vacuum alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/15/2021	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	6/16/21 10:34	6/16/21 10:40	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/16/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	

TOTAL DOWNTIME January 1 through June 30, 2021 (HOURS):	**47.10**
TOTAL PERMITTED GCCS DOWNTIME FOR 1 YEAR (HOURS):	**240.0**
TOTAL AVAILABLE RUNTIME January 1 through June 30, 2021 (HOURS):	**4343.0**
TOTAL RUNTIME January 1 through June 30, 2021 (HOURS):	**4295.9**
RUNTIME PERCENTAGE July 1 through December 31, 2020 (HOURS) :	**98.9%**

(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: Markus Bernard/Rajan Phadnis

Kirby Canyon Recycling & Disposal Facility, San Jose, CA
SSMP REPORT - From January 1 2021 through June 30, 2021

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:54 Startup Event X Shutdown Event Malfunction Event	12/28/20 15:30	12/28/20 15:32	0.03	406.5	Well offline for filling	113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	12/28/2020	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:54 X Startup Event Shutdown Event Malfunction Event	1/14/21 14:00	1/14/21 14:02	0.03			113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	1/14/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:131 Startup Event X Shutdown Event Malfunction Event	6/22/21 14:00	6/22/21 14:02	0.03	1.5	Offline during repair and construction activities	113: Inspection and Maintenance 116: Well Raising X 117: Gas Collection X 118: Construction Activities	6/22/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:131 X Startup Event Shutdown Event Malfunction Event	6/22/21 15:30	6/22/21 15:32	0.03			113: Inspection and Maintenance 116: Well Raising X 117: Gas Collection X 118: Construction Activities	6/22/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:118 Startup Event X Shutdown Event Malfunction Event	6/22/21 08:00	6/22/21 08:02	0.03	2.0	Offline during repair and construction activities	113: Inspection and Maintenance 116: Well Raising X 117: Gas Collection X 118: Construction Activities	6/22/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:118 X Startup Event Shutdown Event Malfunction Event	6/22/21 10:00	6/22/21 10:02	0.03			113: Inspection and Maintenance 116: Well Raising X 117: Gas Collection X 118: Construction Activities	6/22/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:86 Startup Event X Shutdown Event Malfunction Event	6/29/21 08:00	6/29/21 08:02	0.03	2.0	Offline during repair and construction activities	113: Inspection and Maintenance 116: Well Raising X 117: Gas Collection X 118: Construction Activities	6/29/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:86 X Startup Event Shutdown Event Malfunction Event	6/29/21 10:00	6/29/21 10:02	0.03			113: Inspection and Maintenance 116: Well Raising X 117: Gas Collection X 118: Construction Activities	6/29/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:142 Startup Event X Shutdown Event Malfunction Event	6/30/21 12:30	6/30/21 12:32	0.03	1.5	Offline during repair and construction activities	113: Inspection and Maintenance 116: Well Raising X 117: Gas Collection X 118: Construction Activities	6/30/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:142 X Startup Event Shutdown Event Malfunction Event	6/30/21 14:00	6/30/21 14:02	0.03			113: Inspection and Maintenance 116: Well Raising X 117: Gas Collection X 118: Construction Activities	6/30/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:37 Startup Event X Shutdown Event Malfunction Event	3/04/21 14:30	3/04/21 14:32	0.03	NA	Decommissioned per PTO Condition Number 1437 Part 6, as modified by Application Number 27673	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/4/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:37 Startup Event Shutdown Event Malfunction Event						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/0/1900	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:144 Startup Event X Shutdown Event Malfunction Event	6/22/21 12:30	6/22/21 12:32	0.03	NA	Decommissioned per PTO Condition Number 1437 Part 6, as modified by Application Number 27673	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/22/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:144 Startup Event Shutdown Event Malfunction Event						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/0/1900	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:83 Startup Event X Shutdown Event Malfunction Event	6/30/21 15:30	6/30/21 15:32	0.03	NA	Decommissioned per PTO Condition Number 1437 Part 6, as modified by Application Number 27673	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/30/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:83 Startup Event Shutdown Event Malfunction Event						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/0/1900	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: Markus Bernard/Rajan Phadnis

Kirby Canyon Recycling & Disposal Facility, San Jose, CA
SSMP REPORT - From January 1 2021 through June 30, 2021

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:146	6/30/21 12:30	6/30/21 12:32	0.03	NA	Decommissioned per PTO Condition Number 1437 Part 6, as modified by Application Number 27673	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/30/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Startup Event												
X Shutdown Event												
Malfunction Event												
Well ID Number:146						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/0/1900	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Startup Event												
Shutdown Event												
Malfunction Event												
Well ID Number:148	6/30/21 14:00	6/30/21 14:02	0.03	NA	Decommissioned per PTO Condition Number 1437 Part 6, as modified by Application Number 27673	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/30/2021	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Startup Event												
X Shutdown Event												
Malfunction Event												
Well ID Number:148						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/0/1900	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Startup Event												
Shutdown Event												
Malfunction Event												

(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 January 1 2021 through June 30, 2021

AFFECTED EQUIPMENT: A-12 Flare

REPORT PREPARED BY: Rajan Phadnis **DATE:** July 1, 2021

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, inoperative monitors, or missing data occurred in January 2021						
No deviations, inoperative monitors, or missing data occurred in February 2021						
No deviations, inoperative monitors, or missing data occurred in March 2021						
No deviations, inoperative monitors, or missing data occurred in April 2021						
No deviations, inoperative monitors, or missing data occurred in May 2021						
6/9/2021 5:24	6/9/2021 7:14	1.83	Flow reading ~4,939 scfm was out of range	KOP pump shutdown causing KOP high level and condensate accumulation in header.	The excess moisture in the gas caused flowmeter to go out of range for a limited duration.	Flare was shutdown, the liquid carryover was removed. Flare was inspected and restarted.

The A-12 Flare combustion zone three-hour average temperature did not drop below the 1,549°F limit established in the March 4, 2020 and 1,514°F limit established in the February 25, 2021 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: January 29, 2021
TECHNICIAN: Markus Bernard

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: February 25, 2021
TECHNICIAN: Markus Bernard

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: March 24, 2021
TECHNICIAN: Markus Bernard

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes	X		NW slope on 3/8/21
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)
Erosion seen at NW slope on 3/8/21	26-Mar-21	Added cover to slopes

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: April 26, 2021
TECHNICIAN: Markus Bernard

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: May 26, 2021
TECHNICIAN: Markus Bernard

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes	X		Erosion on farthest NW slopes observed on 5/17/2021
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)
Erosion on farthest NW slopes	5/25/21 & 5/26/21	Added cover to the areas on the slopes.

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: June 25, 2021
TECHNICIAN: Markus Bernard

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

WASTE MANAGEMENT

172 98th Avenue • Oakland, California • 94568

July 15, 2021

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

Re: Second Quarter 2021 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 **Second Quarter 2021 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).

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 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)(2).

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.

SECOND QUARTER 2021 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the Second Quarter 2021.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on May 17 and 18, 2021, in accordance with the NSPS, BAAQMD 8-34, 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 28 exceedances of 500 ppm_v as methane detected on May 17 and 18, 2021. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (May 21, 2021).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on May 27, 2021. During the first 10-day re-monitoring event there was one exceedance of 500 ppm_v as methane detected on May 27, 2021. The second 10-day re-monitoring event was completed on June 4, 2021. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on June 16, 2021. 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 May 17 and 18, 2021. 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 June 8 and 9, 2021, 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 June 8 and 9, 2021.

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 May 18, 2021. 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

2021 QUARTER: 2
PERFORMED BY: RES/WM
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments
61	82	5/17/2021	700 ppm	Well 123
62	96	5/17/2021	1,000 ppm	Well 87
63	111	5/17/2021	507 ppm	Well 134
64	72	5/17/2021	1800 ppm	Well 151
65	66	5/17/2021	1000 ppm	Well 147
66	81	5/17/2021	2000 ppm	Well 129
67	60	5/17/2021	800 ppm	Black pipe
68	60	5/17/2021	600 ppm	Black pipe
21	97	5/17/2021	8000 ppm	Well 139
22	104	5/17/2021	3675 ppm	well 65
23	148	5/17/2021	654 ppm	well 99
24	80	5/17/2021	536 ppm	well 108
25	58	5/17/2021	915 ppm	Well 131
26	58	5/17/2021	677 ppm	Well LC 110
27	52	5/17/2021	3000 ppm	Surface
1	61	5/17/2021	1400 ppm	Well LC 143
2	89	5/17/2021	700 ppm	Well 126
3	83	5/17/2021	800 ppm	Well 82
4	90	5/17/2021	13000 ppm	Well 141
5	143	5/17/2021	1300 ppm	Well 70
6	116	5/17/2021	9700 ppm	Well 66
7	101	5/17/2021	700 ppm	Well 48
8	72	5/17/2021	1000 ppm	Surface
9	59	5/17/2021	1200 ppm	Well 118
10	53	5/17/2021	1300 ppm	Well 121
11	52	5/18/2021	2700 ppm	Surface
-	72	5/18/2021	700 ppm	Well 122
-	147	5/18/2021	3000 PPM	LR8

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

2021 QUARTER: 2
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: Markus Bernard
LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			2nd 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	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
61	5/17/2021	700 ppm	5/21/2021	Added Soil / Water	5/27/2021	30 ppm					6/16/2021	4 ppm		Well 123
62	5/17/2021	1,000 ppm	5/21/2021	Added Soil / Water	5/27/2021	22 ppm					6/16/2021	23 ppm		Well 87
63	5/17/2021	507 ppm	5/21/2021	Added Soil / Water	5/27/2021	60 ppm					6/16/2021	30 ppm		Well 134
64	5/17/2021	1800 ppm	5/21/2021	Added Soil / Water	5/27/2021	30 ppm					6/16/2021	30 ppm		Well 151
65	5/17/2021	1000 ppm	5/21/2021	Added Soil / Water	5/27/2021	21 ppm					6/16/2021	25 ppm		Well 147
66	5/17/2021	2000 ppm	5/21/2021	Added Soil / Water	5/27/2021	80 ppm					6/16/2021	10 ppm		Well 129
67	5/17/2021	800 ppm	5/21/2021	Added Soil / Water	5/27/2021	15 ppm					6/16/2021	20 ppm		Black pipe
68	5/17/2021	600 ppm	5/21/2021	Added Soil / Water	5/27/2021	15ppm					6/16/2021	20 ppm		Black pipe
21	5/17/2021	8000 ppm	5/21/2021	Added Soil / Water	5/27/2021	18 ppm					6/16/2021	14 ppm		Well 139
22	5/17/2021	3675 ppm	5/21/2021	Added Soil / Water	5/27/2021	8 ppm					6/16/2021	0 ppm		well 65
23	5/17/2021	654 ppm	5/21/2021	Added Soil / Water	5/27/2021	0 ppm					6/16/2021	0 ppm		well 99
24	5/17/2021	536 ppm	5/21/2021	Added Soil / Water	5/27/2021	36 ppm					6/16/2021	35 ppm		well 108
25	5/17/2021	915 ppm	5/21/2021	Added Soil / Water	5/27/2021	22 ppm					6/16/2021	0 ppm		Well 131
26	5/17/2021	677 ppm	5/21/2021	Added Soil / Water	5/27/2021	38 ppm					6/16/2021	22 ppm		Well LC 110
27	5/17/2021	3000 ppm	5/21/2021	Added Soil / Water	5/27/2021	4 ppm					6/16/2021	0 ppm		Surface
1	5/17/2021	1400 ppm	5/21/2021	Added Soil / Water	5/27/2021	12 ppm					6/16/2021	0 ppm		Well LC 143
2	5/17/2021	700 ppm	5/21/2021	Added Soil / Water	5/27/2021	10 ppm					6/16/2021	16 ppm		Well 126
3	5/17/2021	800 ppm	5/21/2021	Added Soil / Water	5/27/2021	50 ppm					6/16/2021	0 ppm		Well 82
4	5/17/2021	13000 ppm	5/21/2021	Added Soil / Water	5/27/2021	34 ppm					6/16/2021	0 ppm		Well 141
5	5/17/2021	1300 ppm	5/21/2021	Added Soil / Water	5/27/2021	48 ppm					6/16/2021	23 ppm		Well 70
6	5/17/2021	9700 ppm	5/21/2021	Added Soil / Water	5/27/2021	25 ppm					6/16/2021	0 ppm		Well 66
7	5/17/2021	700 ppm	5/21/2021	Added Soil / Water	5/27/2021	23 ppm					6/16/2021	0 ppm		Well 48
8	5/17/2021	1000 ppm	5/21/2021	Added Soil / Water	5/27/2021	16 ppm					6/16/2021	0 ppm		Surface
9	5/17/2021	1200 ppm	5/21/2021	Added Soil / Water	5/27/2021	75 ppm					6/16/2021	31 ppm		Well 118
10	5/17/2021	1300 ppm	5/21/2021	Added Soil / Water	5/27/2021	20 ppm					6/16/2021	0 ppm		Well 121
11	5/17/2021	2700 ppm	5/21/2021	Added Soil / Water	5/27/2021	14 ppm					6/16/2021	5 ppm		Surface
-	5/18/2021	700 ppm	5/21/2021	Added Soil / Water	5/27/2021	30 ppm					6/16/2021	33 ppm		Well 122
-	5/18/2021	3000 ppm	5/21/2021	Added Silicone Seal	5/27/2021	-	2500 ppm	6/4/2021	80 ppm		6/16/2021	105 ppm		LR8

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

2021 QUARTER: 2
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: Markus Bernard
LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			
Exceedance	Monitoring	Field	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Grid ID No.	Date	Reading	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	Comments
82	5/17/2021	700 ppm	5/27/2021	30 ppm					Well 123
96	5/17/2021	1,000 ppm	5/27/2021	22 ppm					Well 87
111	5/17/2021	507 ppm	5/27/2021	60 ppm					Well 134
72	5/17/2021	1800 ppm	5/27/2021	30 ppm					Well 151
66	5/17/2021	1000 ppm	5/27/2021	21 ppm					Well 147
81	5/17/2021	2000 ppm	5/27/2021	80 ppm					Well 129
60	5/17/2021	800 ppm	5/27/2021	15 ppm					Black pipe
60	5/17/2021	600 ppm	5/27/2021	15ppm					Black pipe
97	5/17/2021	8000 ppm	5/27/2021	18 ppm					Well 139
104	5/17/2021	3675 ppm	5/27/2021	8 ppm					well 65
148	5/17/2021	654 ppm	5/27/2021	0 ppm					well 99
80	5/17/2021	536 ppm	5/27/2021	36 ppm					well 108
58	5/17/2021	915 ppm	5/27/2021	22 ppm					Well 131
58	5/17/2021	677 ppm	5/27/2021	38 ppm					Well LC 110
52	5/17/2021	3000 ppm	5/27/2021	4 ppm					Surface
61	5/17/2021	1400 ppm	5/27/2021	12 ppm					Well LC 143
89	5/17/2021	700 ppm	5/27/2021	10 ppm					Well 126
83	5/17/2021	800 ppm	5/27/2021	50 ppm					Well 82
90	5/17/2021	13000 ppm	5/27/2021	34 ppm					Well 141
143	5/17/2021	1300 ppm	5/27/2021	48 ppm					Well 70
116	5/17/2021	9700 ppm	5/27/2021	25 ppm					Well 66
101	5/17/2021	700 ppm	5/27/2021	23 ppm					Well 48
72	5/17/2021	1000 ppm	5/27/2021	16 ppm					Surface
59	5/17/2021	1200 ppm	5/27/2021	75 ppm					Well 118
53	5/17/2021	1300 ppm	5/27/2021	20 ppm					Well 121
52	5/18/2021	2700 ppm	5/27/2021	14 ppm					Surface
72	5/18/2021	700 ppm	5/27/2021	30 ppm					Well 122
147	5/18/2021	3000 PPM	5/27/2021	-	2500 ppm	6/4/2021	80 ppm		LR8

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

2021 QUARTER: 2
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

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

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

2021 QUARTER: 2

INITIAL MONITORING PERFORMED BY: RES **Wind Direction: W** **Wind Direction: W**

FOLLOW-UP MONITORING PERFORMED BY: Markus Bernard

LANDFILL NAME: Kirby Canyon LANDFILL **Wind Speed: 2 MPH** **Wind Speed: 2 MPH**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			2nd 10 Day Follow up			1st 30-day Follow-Up			Comments
Flag	Monitoring	Field	Repair	Action taken to repair	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Number	Date	Reading	Date	Exceedance	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	
61	5/17/2021	700 ppm	5/21/2021	Added Soil / Water	5/27/2021	30 ppm					6/16/2021	4 ppm		Well 123
62	5/17/2021	1,000 ppm	5/21/2021	Added Soil / Water	5/27/2021	22 ppm					6/16/2021	23 ppm		Well 87
63	5/17/2021	507 ppm	5/21/2021	Added Soil / Water	5/27/2021	60 ppm					6/16/2021	30 ppm		Well 134
64	5/17/2021	1800 ppm	5/21/2021	Added Soil / Water	5/27/2021	30 ppm					6/16/2021	30 ppm		Well 151
65	5/17/2021	1000 ppm	5/21/2021	Added Soil / Water	5/27/2021	21 ppm					6/16/2021	25 ppm		Well 147
66	5/17/2021	2000 ppm	5/21/2021	Added Soil / Water	5/27/2021	80 ppm					6/16/2021	10 ppm		Well 129
67	5/17/2021	800 ppm	5/21/2021	Added Soil / Water	5/27/2021	15 ppm					6/16/2021	20 ppm		Black pipe
68	5/17/2021	600 ppm	5/21/2021	Added Soil / Water	5/27/2021	15ppm					6/16/2021	20 ppm		Black pipe
21	5/17/2021	8000 ppm	5/21/2021	Added Soil / Water	5/27/2021	18 ppm					6/16/2021	14 ppm		Well 139
22	5/17/2021	3675 ppm	5/21/2021	Added Soil / Water	5/27/2021	8 ppm					6/16/2021	0 ppm		well 65
23	5/17/2021	654 ppm	5/21/2021	Added Soil / Water	5/27/2021	0 ppm					6/16/2021	0 ppm		well 99
24	5/17/2021	536 ppm	5/21/2021	Added Soil / Water	5/27/2021	36 ppm					6/16/2021	35 ppm		well 108
25	5/17/2021	915 ppm	5/21/2021	Added Soil / Water	5/27/2021	22 ppm					6/16/2021	0 ppm		Well 131
26	5/17/2021	677 ppm	5/21/2021	Added Soil / Water	5/27/2021	38 ppm					6/16/2021	22 ppm		Well LC 110
27	5/17/2021	3000 ppm	5/21/2021	Added Soil / Water	5/27/2021	4 ppm					6/16/2021	0 ppm		Surface
1	5/17/2021	1400 ppm	5/21/2021	Added Soil / Water	5/27/2021	12 ppm					6/16/2021	0 ppm		Well LC 143
2	5/17/2021	700 ppm	5/21/2021	Added Soil / Water	5/27/2021	10 ppm					6/16/2021	16 ppm		Well 126
3	5/17/2021	800 ppm	5/21/2021	Added Soil / Water	5/27/2021	50 ppm					6/16/2021	0 ppm		Well 82
4	5/17/2021	13000 ppm	5/21/2021	Added Soil / Water	5/27/2021	34 ppm					6/16/2021	0 ppm		Well 141
5	5/17/2021	1300 ppm	5/21/2021	Added Soil / Water	5/27/2021	48 ppm					6/16/2021	23 ppm		Well 70
6	5/17/2021	9700 ppm	5/21/2021	Added Soil / Water	5/27/2021	25 ppm					6/16/2021	0 ppm		Well 66
7	5/17/2021	700 ppm	5/21/2021	Added Soil / Water	5/27/2021	23 ppm					6/16/2021	0 ppm		Well 48
8	5/17/2021	1000 ppm	5/21/2021	Added Soil / Water	5/27/2021	16 ppm					6/16/2021	0 ppm		Surface
9	5/17/2021	1200 ppm	5/21/2021	Added Soil / Water	5/27/2021	75 ppm					6/16/2021	31 ppm		Well 118
10	5/17/2021	1300 ppm	5/21/2021	Added Soil / Water	5/27/2021	20 ppm					6/16/2021	0 ppm		Well 121
11	5/17/2021	2700 ppm	5/21/2021	Added Soil / Water	5/27/2021	14 ppm					6/16/2021	5 ppm		Surface
-	5/18/2021	700 ppm	5/21/2021	Added Soil / Water	5/27/2021	30 ppm					6/16/2021	33 ppm		Well 122
-	5/18/2021	3000 ppm	5/21/2021	Added Silicone Seal	5/27/2021	-	2500 ppm	6/4/2021	80 ppm		6/16/2021	105 ppm		LR8

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leigh Wade, omar ponce de, Jesse Mounins

Cal. Gas Exp. Date: 9-21-21

Date: 5-17-21 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 68 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
37	LW	1130	1145	89	3	4	6	
41	OP	1130	1145	114	3	4	6	
42	JM	1130	1145	70	3	4	6	
43	LW	1145	1200	82	3	4	6	
44	OP	1145	1200	26	3	4	6	
47	JM	1145	1200	94	3	4	6	
48	LW	1200	1215	71	2	3	3	
49	OP	1200	1215	54	2	3	3	
51	JM	1200	1215	3,000	2	3	3	SURFACE
53	LW	1215	1230	1300	3	5	3	WELL 121
54	OP	1215	1230	62	3	5	3	
55	JM	1215	1230	39	3	5	3	
57	LW	1230	1245	13	3	5	6	
58	OP	1230	1245	915	3	5	6	WELL 131
59	JM	1230	1245	1200	3	5	6	WELL 118
60	LW	1245	1300	800	2	3	6	BIOLIC PIPE
61	OP	1245	1300	1400	2	3	6	WELL 143
64	JM	1245	1300	10	2	3	6	
65	LW	1300	1315	49	2	3	7	
66	OP	1300	1315	1,000	2	3	7	WELL 147
67	JM	1300	1315	41	2	3	7	
68	LW	1315	1330	76	2	3	7	
70	OP	1315	1330	19	2	3	7	
71	JM	1315	1330	59	2	3	7	
72	LW	1330	1345	1800	2	3	7	WELL 151
73	OP	1330	1345	60	2	3	7	
74	JM	1330	1345	39	2	3	7	
75	LW	1345	1400	31	2	3	7	
79	OP	1345	1400	21	2		7	
80	JM	1345	1400	536	2	3	7	WELL 108

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE, ONSHORE ENGLISH, JESSE MCINNIS

Cal. Gas Exp. Date: 4-21-21

Date: 5-17-21 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 74 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
81	LW	1400	1415	2,000	2	3	7	WELL 129
82	OP	1400	1415	700	2	3	7	WELL 123
83	JM	1400	1415	800	2	3	7	WELL 82
86	LW	1415	1430	69	2	3	7	
87	OP	1415	1430	58	2	3	7	
88	JM	1415	1430	29	2	3	7	
89	LW	1430	1445	700	2	3	7	WELL 126
90	OP	1430	1445	13,000	2	3	7	WELL CC 141
94	JM	1430	1445	41	2	3	7	
95	LW	1445	1500	37	2	3	7	
96	OP	1445	1500	1,000	2	3	7	WELL 87
97	JM	1445	1500	8,000	2	3	7	WELL 139
101	LW	1500	1515	700	2	4	7	WELL 48
102	OP	1500	1515	55	2	4	7	
103	JM	1500	1515	37	2	4	7	
104	LW	1515	1530	3675	2	4	7	WELL 65
105	OP	1515	1530	25	2	4	7	
109	JM	1515	1530	64	2	4	7	
110	LW	1530	1545	125	2	4	8	
111	OP	1530	1545	507	2	4	8	WELL 134
112	JM	1530	1545	14	2	4	8	
116	LW	1545	1600	9700	3	4	8	WELL 64
117	OP	1545	1600	98	3	4	8	
118	JM	1545	1600	110	3	4	8	
119	LW	1600	1615	74	2	4	7	
120	OP	1600	1615	41	2	4	7	
141	JM	1600	1615	15	2	4	7	
142	LW	1615	1630	17	3	5	8	
143	OP	1615	1630	1300	3	5	8	WELL BW 30
144	JM	1615	1630	39	3	5	8	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEISHMAN
ANDERSON
JESSE MANNING

Cal. Gas Exp. Date: 9-21-21

Date: 8-17-21 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: >8 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
145	LW	1630	1645	21	3	5	S	
146	OP	1630	1645	34	3	5	S	
147	JM	1630	1645	28	3	5	S	
148	LW	1645	1700	654	4	6	S	WELL 99
149	OP	1645	1700	17	4	6	S	
150	JM	1645	1700	26	4	6	S	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: C. Walshwade _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 5-17-21 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	
76								Active-trash
77								
84								
91								
92								
98								
99								
106								
107								
113								
121								
129								
1								No waste in place
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHWADE _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 5-17-21 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	
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
38								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHNOR _____ _____ _____
_____ _____ _____
_____ _____ Cal. Gas Exp. Date: _____

Date: 5-17-21 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	
85								
93								
100								
108								
114								
115								
122								
123								
130								
131								

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LESLIE WADE, ONCA PERKINS, JESSE MCINNIS

Cal. Gas Exp. Date: 5-21-21

Date: 5-18-21 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 51 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
124	LW	0530	0545	19	1	2	12	
125	OP	0530	0545	24	1	2	12	
126	JM	0530	0545	16	1	2	12	
127	LW	0545	0600	31	1	2	16	
128	OP	0545	0600	34	1	2	16	
132	JM	0545	0600	19	1	2	16	
133	LW	0600	0615	24	1	2	16	
134	OP	0600	0615	19	1	2	16	
135	JM	0600	0615	41	1	2	16	
136	LW	0615	0630	37	1	2	16	
137	OP	0615	0630	24	1	2	16	
138	JM	0615	0630	11	1	2	16	
139	LW	0630	0645	19	2	3	12	
140	OP	0630	0645	26	2	3	12	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 1

Orange Flag Landfill Surface Emissions Monitoring
Exceedances and Monitoring Log

Site: KIRBY

Quarter / Year:	2ND 2021
Technician:	LEIGHNADE
Instrument:	TVA1000
Calibration Standard:	500ppm

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~~ 61	82	700	5-17-21										WELL 123
~~0~~ 62	96	1,000											WELL 87
~~0~~ 63	111	507											WELL 134
~~0~~ 64	72	1800											WELL 151
~~0~~ 65	66	1,000											WELL 147
~~0~~ 66	81	2,600											WELL 129
~~0~~ 67	60	800											BLK PIPE
~~0~~ 68	60	600											BLK PIPE
~~0~~ 21	97	8,000											WELL 139
~~0~~ 22	104	3675											WELL 65
~~0~~ 23	148	659											WELL 99
~~0~~ 24	80	536											WELL 108
~~0~~ 25	58	915											WELL 131
~~0~~ 26	58	677											WELL CC/10
~~0~~ 27	52	3,000											SURFACE
~~0~~ 1	61	1400											WELL CC/143
~~0~~ 2	89	500											WELL 126
~~0~~ 3	83	800											WELL 82
~~0~~ 4	90	13,000											WELL CC/141
~~0~~ 5	143	1300											WELL EW70
~~0~~ 6	116	9700											WELL 66
~~0~~ 7	101	700											WELL 48
~~0~~ 8	72	1,000											SURFACE
~~0~~ 9	59	1200											WELL 118
0 10	53	1300											WELL 121

Orange Flag Landfill Surface Emissions Monitoring
Exceedances and Monitoring Log

Site: Kirby

Quarter / Year:	2nd 2021
Technician:	Leishwadt
Instrument:	TVA1000
Calibration Standard:	500ppm

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	52	2700	5-17-21										Surface
O-													
O-													
O-													
O-													
O-													
O-													
O-													
O-													
O-													
O-													
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O-													

SITE: KIRBY DATE:

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
WELL 145	53	1.07		
NONE	54			
NONE	55			
NONE	57			
WELL 110	58	1.67		
WELL 131	58	915		
WELL 118	59	1200.		
WELL 146	59	58		
NONE	60			
BIC pipe	60	800		
BIC pipe	60	600		
WELL 84	61	1.54		
WELL LC143	61	1400.		
LR-11	64	4.24		

SITE: KIRBY DATE: 2nd Quarter 2021

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
NOAE	37			
NOAE	41			
NOAE	42			
NOAE	43			
NOAE	44			
WELL CC 112	47	5.40		
WELL 148	48	.54		
WELL 149	48	42		
NOAE	49			
WELL 105	52	6.0		
WELL 111	52	9.10		
WELL 121	52	1300.		

SITE: KIRBY DATE: _____

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
NOAE	65			
NOAE	66			
NOAE	67			
WELL 51	68	1.45		
NOAE	70			
WELL 109	71	58		
WELL 147	72	1,000		
WELL 122	72	48.		
WELL 127	73	60		
WELL 124	74	2.15		
WELL 83	74	.59		
WELL 142	75			

SITE: KIRBY **DATE:** _____

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
NONE	79			
WELL 130	80	11.34		
WELL 108	80	536		
LC10	80	2614		
WELL 151	81	1800		
WELL 57	82	50		
WELL 123	82	700		
WELL 12	82	71		
WELL 37	83	43		
WELL 14	86	26.21		
WELL 119	86	.69		
WELL 129	87	2000		
WELL 152		.17		
WELL 86	88	29		
WELL 126	89	700.		
WELL 82	89	800		
WELL 75	89	60.61		
WELL 141	90	13,000.		

SITE: LIBBY **DATE:** _____

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
NOAE	94			
NOAE	95			
NOAE	96			
WELL 139	97	8000		
WELL 54	97	3.28		
WELL 48	101	700.		
EW-76	102	54		
EW 89	102	19		
WELL 137	103	37		
WELL 65	104	3675		
LR04	105	21		
NOAE	109			

SITE: KIRBY DATE: _____

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
EW 91	110	47		
WELL 93	110	125		
WELL 34	111	507		
WELL 40	112	3.75		
WELL 66	116	9700.		
EW 98	117	98		
WELL 92	118	15		
EW 74	118	1.10		
WELL 185	119	110		
ROAD	120			
ROAD	124			
ROAD	125			
WELL 95	126	1.6		

SITE: Kirby DATE: _____

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
Well 101	127	31		
None	128			
None	132			
EW 94	133	.24		
None	134			
None	135			
Well 93	136	40		
None	137			
Well 88	138	5.46		
EW 90	138	7.20		
EW 103	139	125.		
EW 102	139	3.31		
None	140			
None	141			
Well 92	142	4.92		

SITE: KIRBY DATE:

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
WELL 70	143	.8.		
EW 71	144	5.80		
NONE	145			
NONE	146			
NONE	147			
WELL 62	148	4.70		
WELL 99	148	6.54		
NONE	149			
NONE	150			

LEGEND

- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- 105 — SEM GRID BLOCK

N

0 200 400

SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
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.

INSTANTANEOUS 5-17-21
5-18-21

- GRADS monitored
- Active trash
- NO WASTE in place
- Sooty

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
	DATE OF ISSUE 11/12/2020	DRAWN BY GVP; DESIGNED BY CME	CHECKED BY NB; APPROVED BY PJS			

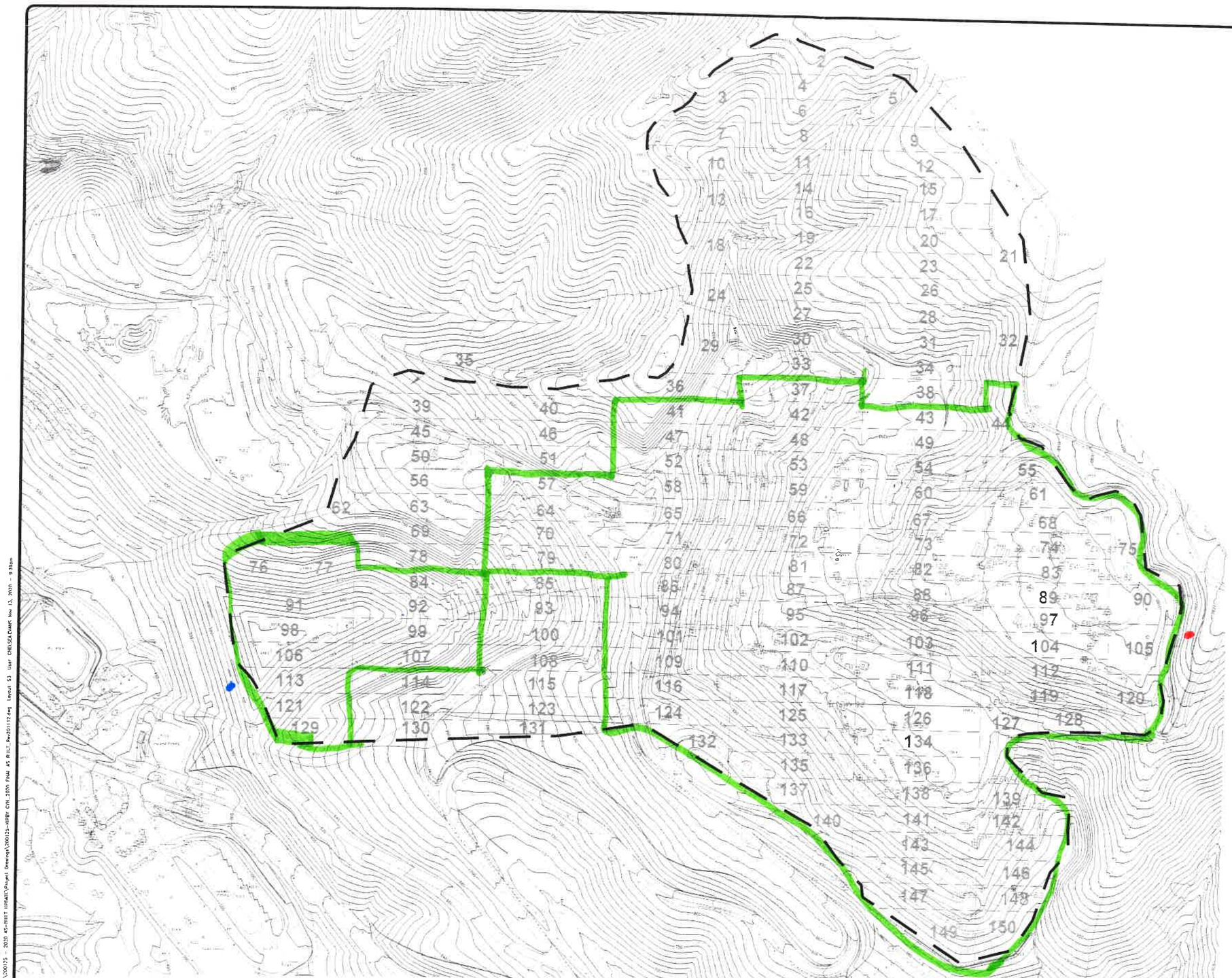
TETRA TECH

KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO. 3

PROJECT NO. 200125



LEGEND

- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- 105 — SEM GRID BLOCK

N

0 200 400

SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
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.

2nd Quarter 2021
NSPS Sweep
Upwind
Downwind

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
	DATE OF ISSUE 11/12/2020					

DRAWN BY CVP
DESIGNED BY CME
CHECKED BY NB
APPROVED BY PJS

TETRA TECH

KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO. 3

PROJECT NO. 200125

File: J:\PROJECTS\KIRBY CANYON\200125 - 2020 AS-BUILT UPDATE\Project Drawings\200125-KIRBY CYN_2019 FINAL AS BUILT_R4-20111726.dwg Layout: S3 User: CHELSEA.EVANS Nov 13, 2020 - 9:35am

Attachment B

Integrated Surface Emission Monitoring Event Records

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEISHWADE, DWIGHTANDERSON, OMARPERALTA, NICKBANKS

Cal. Gas Exp. Date: 9-21-21

Date: 6-9-21 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 84 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
55	LW	0540	0605	6.21	1	2	12	
61	OP	0540	0605	5.90	1	2	12	
68	AD	0540	0605	6.17	1	2	12	
74	DA	0540	0605	5.74	1	2	12	
75	LW	0605	0630	6.18	1	2	12	
83	OP	0605	0630	5.77	1	2	12	
90	AD	0605	0630	4.61	1	2	12	
89	DA	0605	0630	7.20	1	2	12	
97	LW	0630	0655	5.44	1	2	12	
104	OP	0630	0655	6.39	1	2	12	
105	AD	0630	0655	5.03	1	2	12	
101	DA	0630	0655	6.81	1	2	12	
102	LW	0655	0720	8.25	1	2	12	
103	OP	0655	0720	7.35	1	2	12	
109	AD	0655	0720	5.82	1	2	12	
110	DA	0655	0720	5.50	1	2	12	
111	LW	0720	0745	4.78	1	2	12	
112	OP	0720	0745	4.61	1	2	12	
116	AD	0720	0745	5.19	1	2	12	
117	DA	0720	0745	4.60	1	2	12	
118	LW	0745	0810	4.18	1	2	12	
119	OP	0745	0810	4.71	1	2	12	
120	AD	0745	0810	5.15	1	2	12	
124	DA	0745	0810	4.38	1	2	12	
125	LW	0810	0835	4.51	1	2	12	
126	OP	0810	0835	4.12	1	2	12	
127	AD	0810	0835	5.64	1	2	12	
128	DA	0810	0835	5.82	1	2	12	
132	LW	0835	0900	4.80	1	2	12	
137	OP	0835	0900	5.17	1	2	12	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LONGWARE, DWIGHT ANDERSON
ONORATO
NICK BANKS

Cal. Gas Exp. Date: 9-21-21

Date: 6-9-21 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 62 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
134	NB	0835	0900	4.12	1	2	12	
135	OA	0835	0900	5.30	1	2	12	
c36	LW	0900	0925	5.16	1	2	12	
137	op	0900	0925	4.77	1	2	12	
138	NB	0900	0925	5.02	1	2	12	
139	OA	0900	0925	4.60	1	2	12	
140	LW	0925	0950	4.28	1	2	12	
141	op	0925	0950	5.31	1	2	12	
142	NB	0925	0950	5.76	1	2	12	
143	OA	0925	0950	4.98	1	2	12	
144	LW	0950	1015	5.32	1	2	10	
145	op	0950	1015	4.75	1	2	10	
146	NB	0950	1015	5.60	1	2	10	
147	OA	0950	1015	3.81	1	2	10	
148	LW	1015	1040	4.25	1	2	12	
149	op	1015	1040	4.16	1	2	12	
150	NB	1015	1040	3.71	1	2	12	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEISHWNOE, DWIGHT ANDERSON, _____
OMAR PORTILLA, _____, _____
NICK BENKS, _____, Cal. Gas Exp. Date: 9-21-21

Date: 6-8-21 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 65 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
57	LW	1000	1025	4.71	2	3	3	
64	OP	1000	1025	5.10	2	3	3	
70	ND	1000	1025	4.38	2	3	3	
79	DA	1010	1025	4.77	2	3	3	
41	LW	1025	1050	18.60	2	3	3	
37	OP	1025	1050	16.25	2	3	3	
42	ND	1025	1050	17.08	2	3	3	
43	DA	1025	1050	14.11	2	3	3	
44	LW	1050	1115	7.36	2	3	3	
47	OP	1050	1115	19.22	2	3	3	
48	ND	1050	1115	21.60	2	3	3	
49	DA	1050	1115	17.54	2	3	3	
52	LW	1145	1210	15.41	2	3	3	
53	OP	1145	1210	22.77	2	3	3	
54	ND	1145	1210	20.48	2	3	3	
58	DA	1145	1210	17.60	2	3	3	
59	LW	1210	1235	21.46	2	3	6	
60	OP	1210	1235	17.30	2	3	6	
65	ND	1210	1235	12.07	2	3	6	
66	DA	1210	1235	17.39	2	3	6	
67	LW	1235	1300	15.45	2	3	7	
71	OP	1235	1300	16.60	2	3	7	
72	ND	1235	1300	14.72	2	3	7	
73	DA	1235	1300	16.85	2	3	7	
80	LW	1300	1325	9.54	2	3	7	
81	OP	1300	1325	11.49	2	3	7	
82	ND	1300	1325	13.60	2	3	7	
86	DA	1300	1325	9.57	2	3	7	
87	LW	1325	1350	7.25	2	3	7	
88	OP	1325	1350	6.41	2	3	7	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGHWARD, DWIGHT ANDERSON
DOUG PERKINS
NICK BANKS
Cal. Gas Exp. Date: 9-21-21

Date: 6-8-21 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 69 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
94	NB	1325	1350	6.58	2	3	7	
95	DA	1325	1350	5.94	2	3	7	
96	LW	1350	1415	7.22	2	3	7	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 6-8-21 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	
76								Active trash
77								
84								
91								
92								
98								
99								
106								
107								
113								
121								
129								
1								No waste in place
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Logswor _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 6-8-21 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	
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
38								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIS & WADE _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 6-8-21 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	
85								
93								
100								
108								
114								
115								
122								
127								
130								
131								

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

LEGEND

- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- 105 — SEM GRID BLOCK

N

0 200 400
SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
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.

INTEGRATED 6-8-21
6-9-21

- GRIDS MONITORED
- ACTIVE TRASH
- NO WASTE IN PLACE

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
	DATE OF ISSUE 11/12/2020	DRAWN BY CVP; DESIGNED BY CME		CHECKED BY NB; APPROVED BY PJS		

TETRA TECH

KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO. 3
PROJECT NO. 200125

Attachment C

Component Leak Monitoring Event Records

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

2021 QUARTER: 2
INITIAL MONITORING PERFORMED BY: RES/WM
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	05/18/21	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

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

2021 QUARTER: 2
INITIAL MONITORING PERFORMED BY: RES/WM
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	05/18/21	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

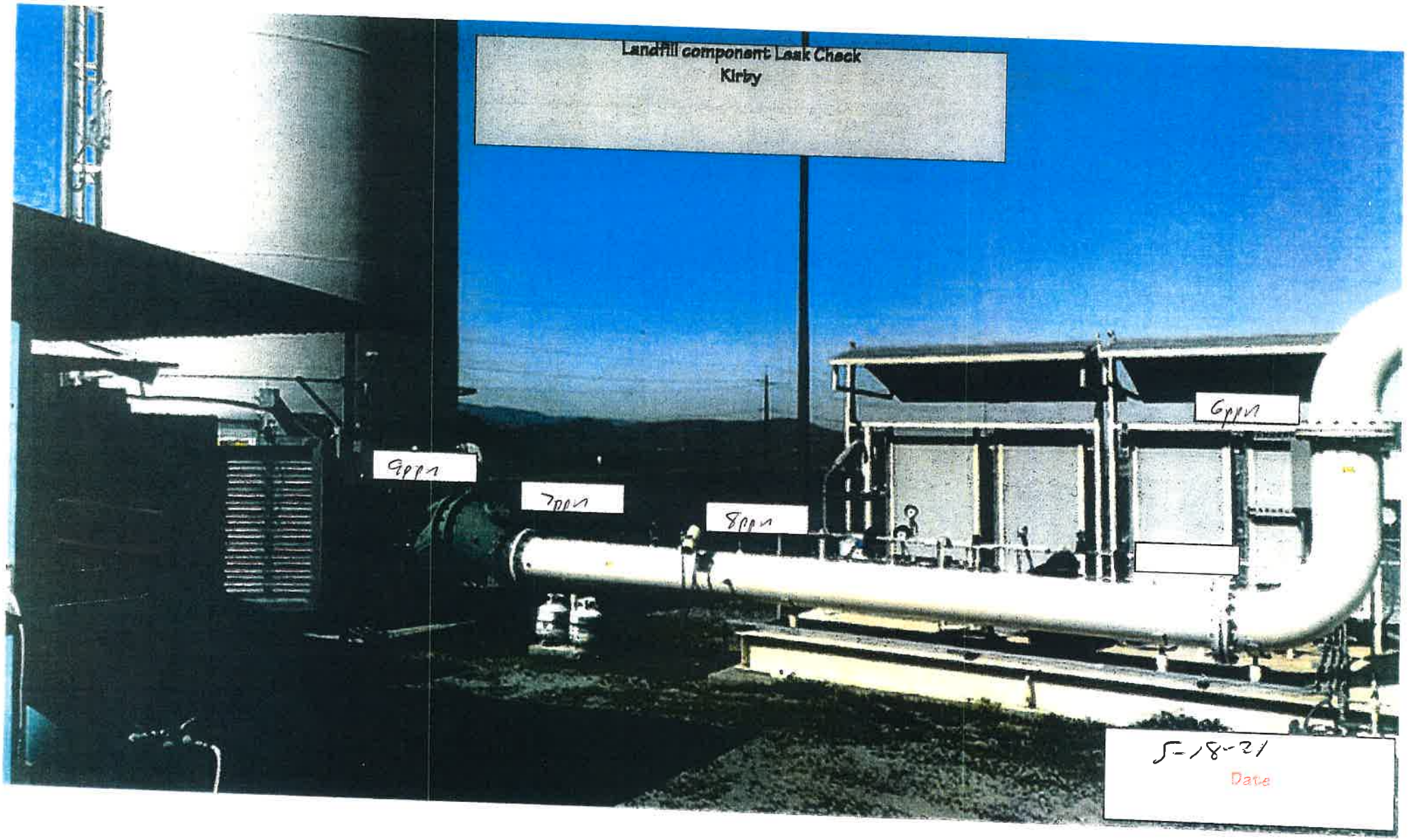
DATE OF SAMPLING: 5-18-21
TECHNICIAN: LEISA WADE

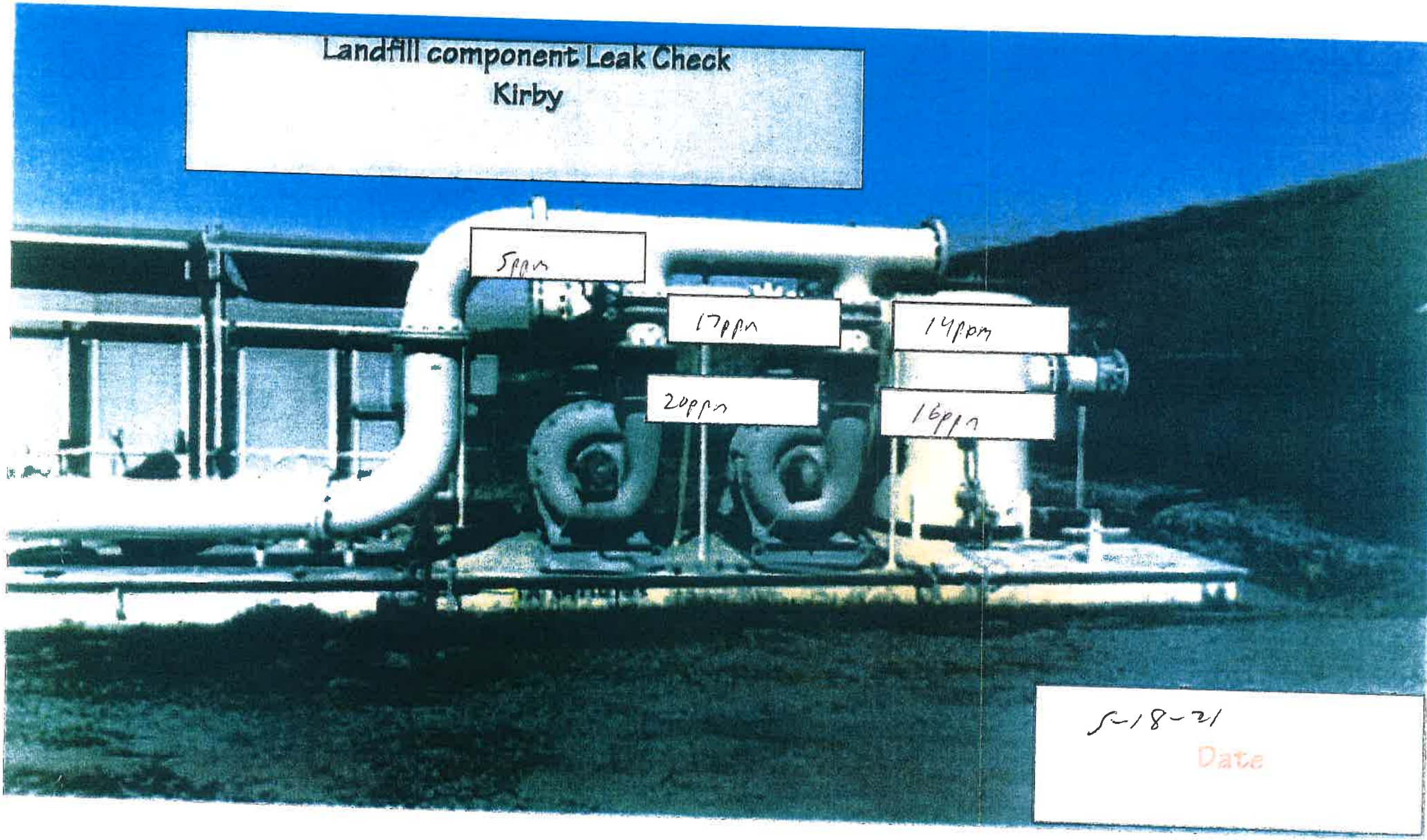
LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NO EXCEEDANCES							

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.

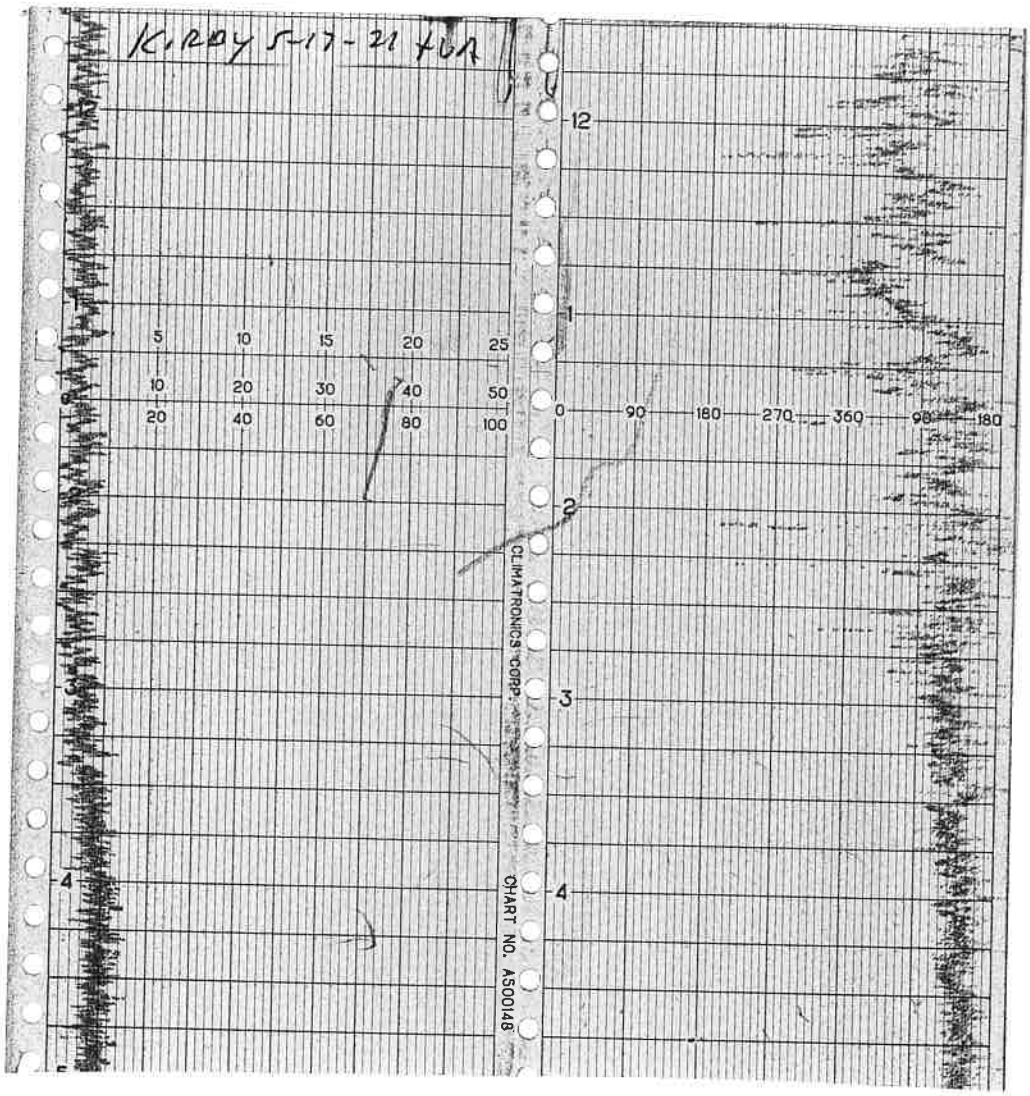

Landfill component Leak Check
Kirby
9ppm
7ppm
8ppm
6ppm
5-18-21
Date


Landfill component Leak Check
Kirby
5ppm
17ppm
14ppm
20ppm
16ppm
5-18-21
Date

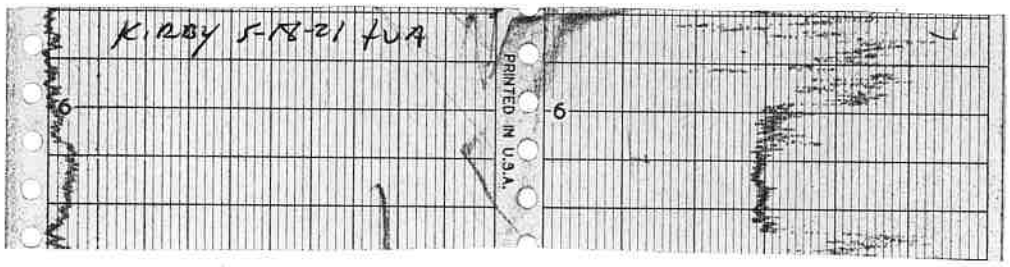
Attachment D

Weather Station Data

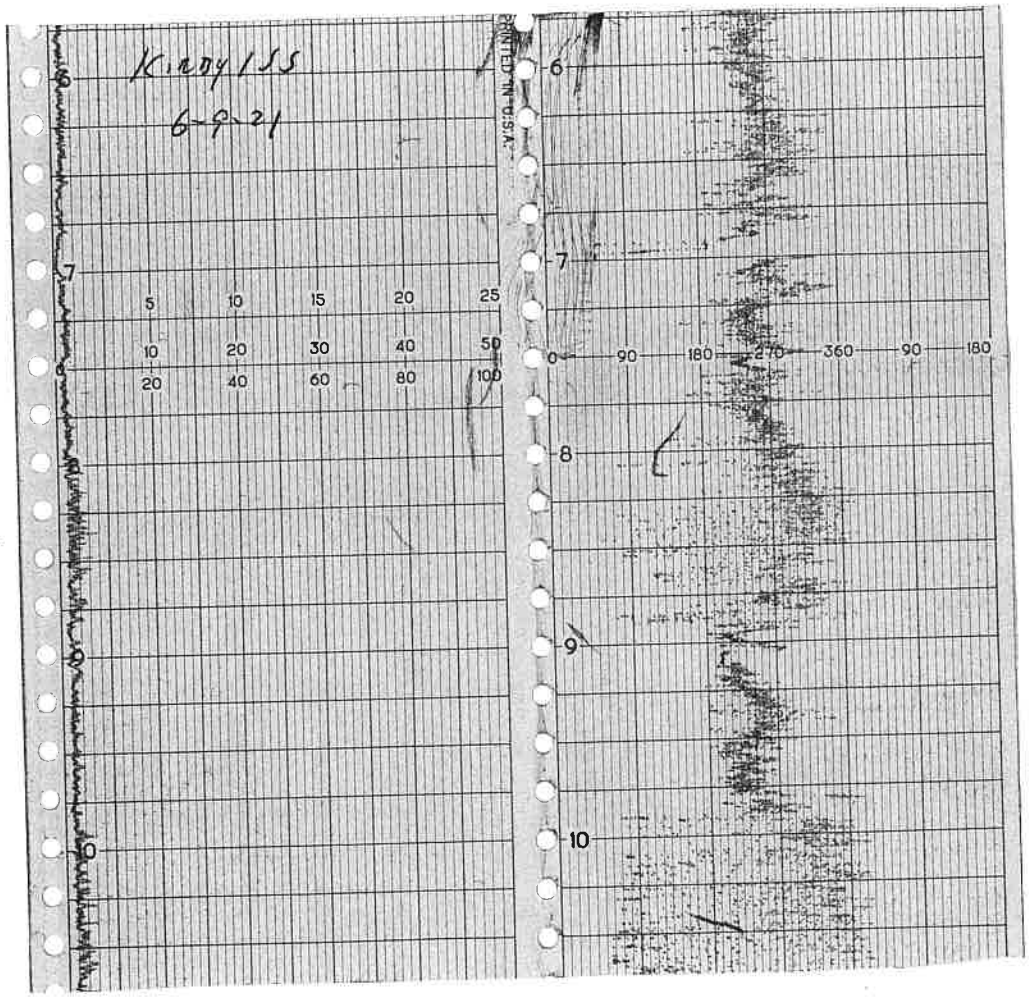
WIND SPEED & DIRECTION CHART ROLL



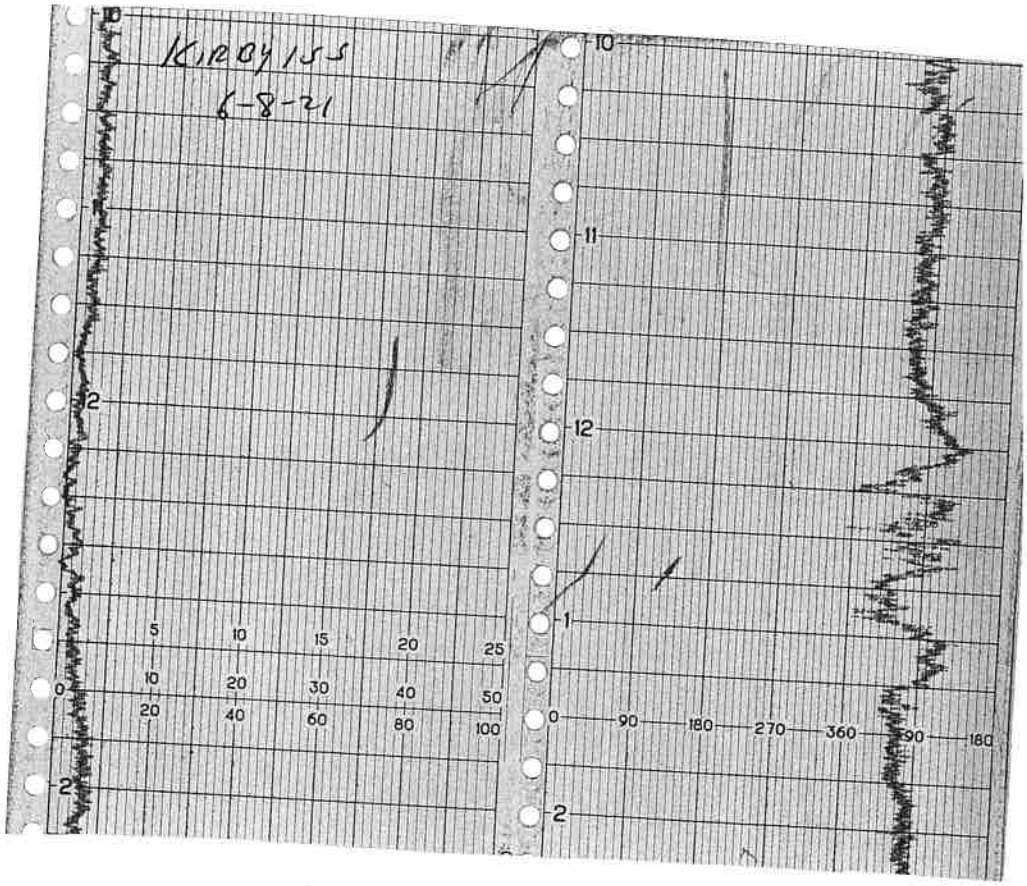
WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



RES Environmental Inc.

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

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Attachment E

Calibration Records

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Landfill Date: 5/27/21

Time: 8:45 AM _____ PM

Instrument Make: Thermo Scientific Model: TVA 1000 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 = 500 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 11 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 6.5 ppm

Performed by: Markus Bernard

CALIBRATION PRECISION TEST RECORD

Date: 3/3/2021

Expiration Date (3 months): 6/2/2021

Time: 8:48 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: 500 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 498 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 496 ppm (f)

Calculate Precision:

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

1.2 % (must be < than 10%)

Performed by: M. Bernard

RESPONSE TIME TEST RECORD

Date: 3/3/21

Expiration Date (3 months): 6/2/21

Time: 8:48 AM _____ PM

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

Measurement #1:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 450 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: 498 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 7 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 498 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 7 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 8 seconds (must be less than 30 seconds)

Performed by: M. Bernard

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Landfill Date: 6/16/21

Time: 10:05 AM _____ PM

Instrument Make: Thermo Scientific Model: TVA 1000 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 = 500 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 4 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 3.0 ppm

Performed by: Markus Bernard

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Landfill Date: 6/4/21

Time: 8:30 AM _____ PM

Instrument Make: Thermo Scientific Model: TVA 1000 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 = 500 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 5 ppm (a)
2. Downwind Reading (highest in 30 seconds): 4 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 4.5 ppm

Performed by: Markus Bernard

CALIBRATION PRECISION TEST RECORD

Date: 6/4/2021

Expiration Date (3 months): 9/4/2021

Time: 8:45 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: 496 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 498 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 496 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: M. Bernard

RESPONSE TIME TEST RECORD

Date: 6/4/21

Expiration Date (3 months): 9/4/21

Time: 8:50 AM _____ PM

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

Measurement #1:

Stabilized Reading Using Calibration Gas: 496 ppm
90% of the Stabilized Reading: 450 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: 498 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 5 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 496 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 5 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = 8 \text{ seconds (must be less than 30 seconds)}$$

Performed by: M. Bernard

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 5-8-21 **Time:** 0830

Model # TVA 1000B

Serial # #10 1036346793

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.0 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-21	Time required to attain 90% of Cal Gas ppm: 1. 7 / 2. 6 / 3. 6
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 6.3
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM JM

Date: 5-8-21 **Time:** 0945

Model # TVA1000B

Serial # #11 1036346774

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.1 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-21	Time required to attain 90% of Cal Gas ppm: 1. 7 / 2. 7 / 3. 6
Factory calibration record w/instrument within 3 months	(Pass) Fail	Average: 6.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to Hex gas.

Comments: _____

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SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 5-8-21 **Time:** 0900

Model # VA 1000B

Serial # #12 103624 6741

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.6 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-21	Time required to attain 90% of Cal Gas ppm: 1. 5 / 2. 5 / 3. 6
Factory calibration record w/instrument within 3 months	(Pass) Fail	Average: 5.3
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 5-8-21 **Time:** 0915

Model # TVA 1000B

Serial # #13 1102246275

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	19 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-21	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. 6
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 6.0
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 5-5-21 **Time:** 0930

Model # TVA-1000B

Serial # #14 1036346711

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	19 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-21	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 7 2. 6 3. 6 Average 6.3
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #10

SERIAL NUMBER: 1036346773

TECHNICIAN: J. Robbins DATE: 4-3-21

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	493	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.68	< 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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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #11

SERIAL NUMBER: 1036346774

TECHNICIAN: R. Rodriguez DATE: 4-3-21

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	0.71	< 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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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Work #12

SERIAL NUMBER: 1036246741

TECHNICIAN: [illegible] DATE: 4-3-21

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	10,102	+/- 2500
< 1	ZERO GAS	0.79	< 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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #13

SERIAL NUMBER: 1102746775

TECHNICIAN: M Roberts DATE: 4-3-21

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	0.83	< 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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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #14

SERIAL NUMBER: 1036346791

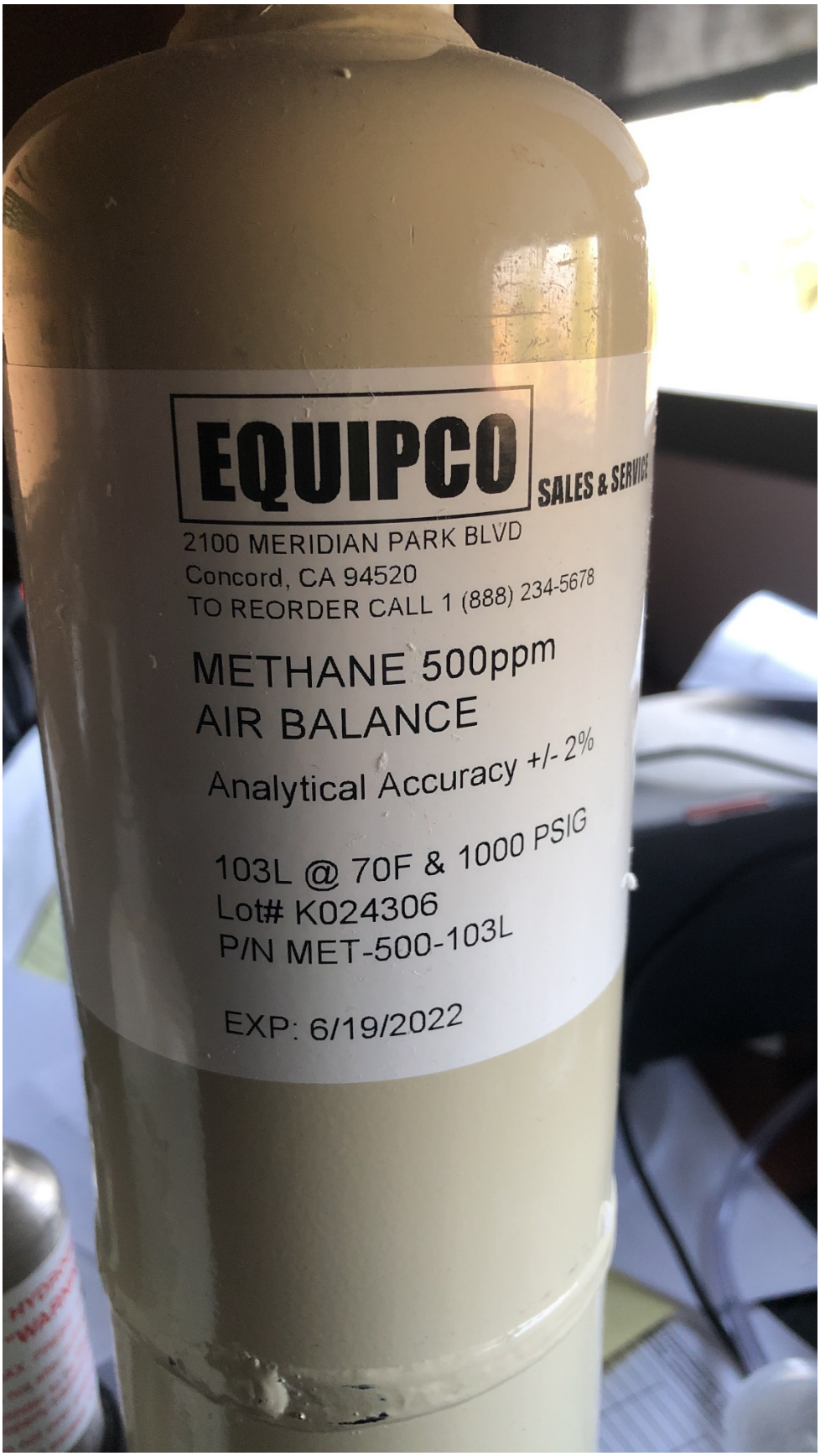
TECHNICIAN: M Roberts DATE: 4-3-2(

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	0.89	< 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.

P.O. Box 748 ▪ Colton, California 92324
(909) 422-1001 ▪ TOLL FREE (888) 325-1098 ▪ FAX (909) 422-0707 ▪ www.resenvironmental.com


EQUIPCO
SALES & SERVICE
2100 MERIDIAN PARK BLVD
Concord, CA 94520
TO REORDER CALL 1 (888) 234-5678
METHANE 500ppm
AIR BALANCE
Analytical Accuracy +/- 2%
103L @ 70F & 1000 PSIG
Lot# K024306
P/N MET-500-103L
EXP: 6/19/2022

INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Air - Zero		
THC	< 2 PPM	
Oxygen	20.9%	± 2%
Nitrogen	Balance	

Lot # 19-6779

Mfg. Date: 4/3/2019

Parent Cylinder ID Number: 001739, 02268

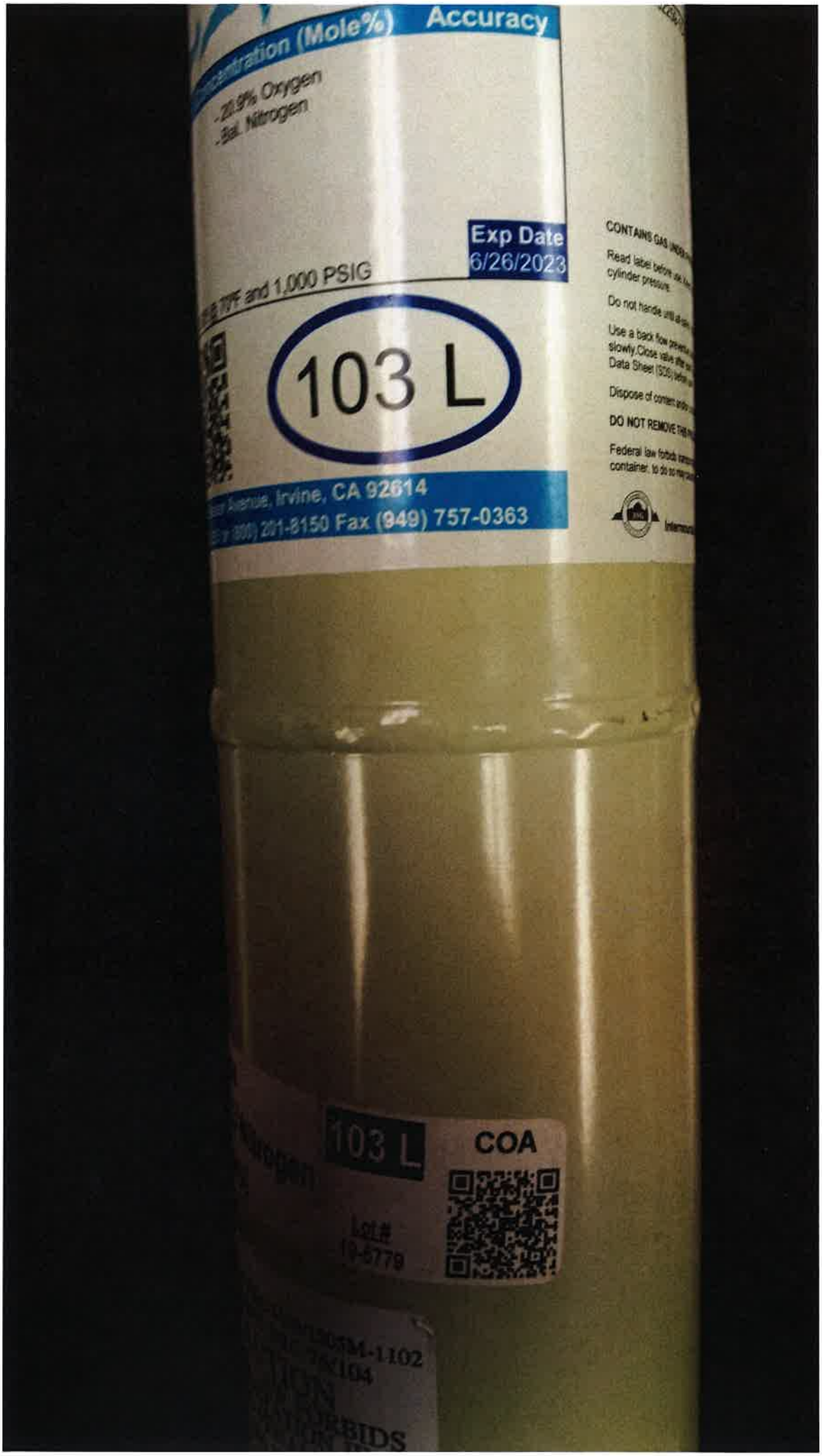
Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

This 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: 4/3/2019


Accuracy
-20.9% Oxygen
-Bal. Nitrogen
Exp Date
6/26/2023
and 1,000 PSIG
103 L
Irvine, CA 92614
(949) 757-0363
CONTAINS GAS
Read label before
cylinder pressure.
Do not handle
Use a back flow
slowly.Close valve
Data Sheet (SDS)
Dispose of content
DO NOT REMOVE
Federal law
container.
103 L
COA
Lot#
19-6779
1102
104

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

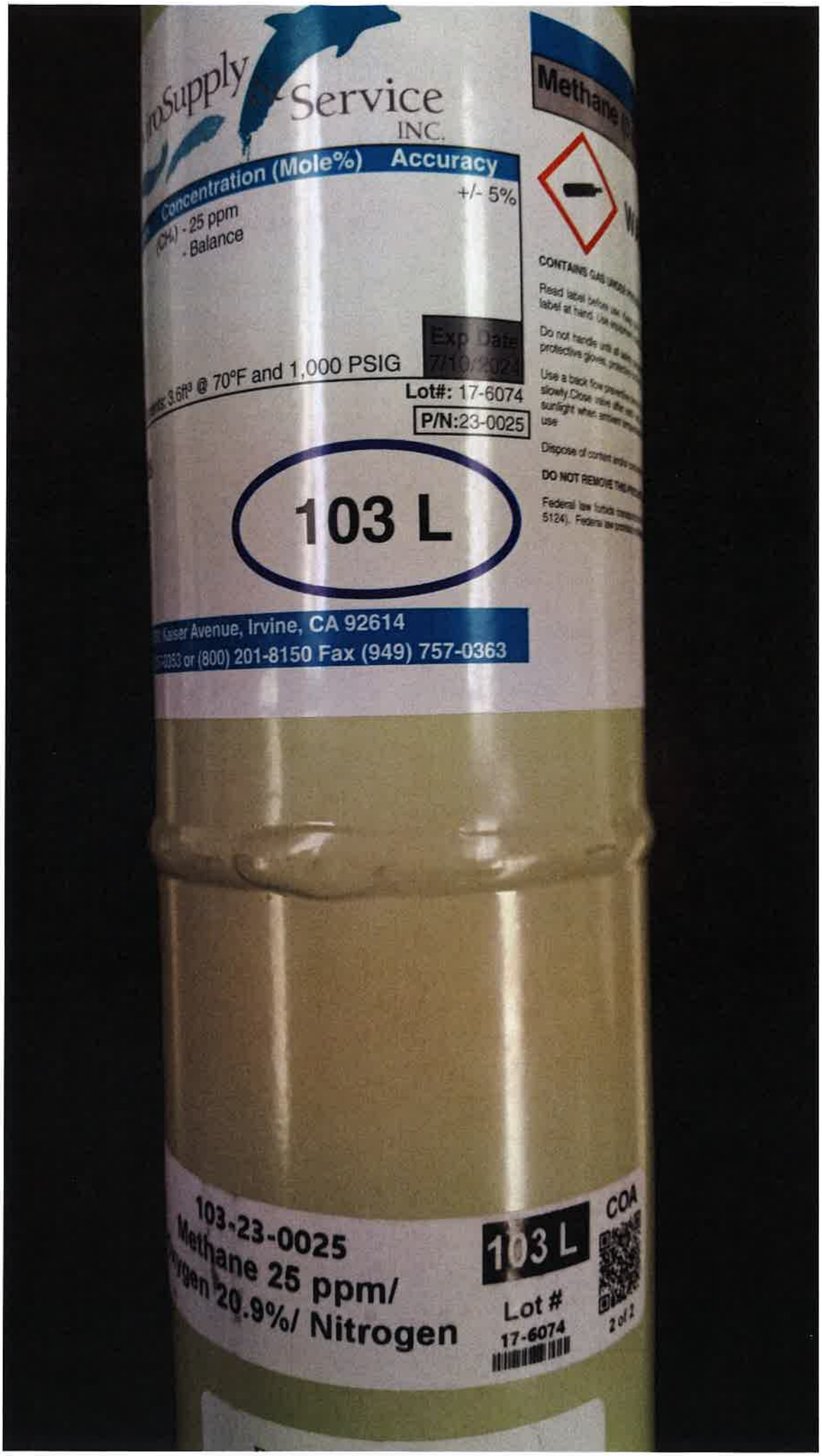
Method of Preparation:

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


Service
INC.
Concentration (Mole%)
Accuracy
+/- 5%
(CH4) - 25 ppm
- Balance
Exp Date
Lot#: 17-6074
P/N:23-0025
103 L
Kaiser Avenue, Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0363
103-23-0025
Methane 25 ppm/
20.9%/ Nitrogen
103 L
Lot #
17-6074
COA
2 of 2

Intermountain Specialty Gases
520 N. Kings Road
Nampa, ID 83687 (USA)
Phone (800) 552-5003, Fax (208) 466-9143
www.isgases.com

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CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy (+/-)
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

Lot #	20-7497
Mfg. Date:	7/10/2020
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	TWC001763

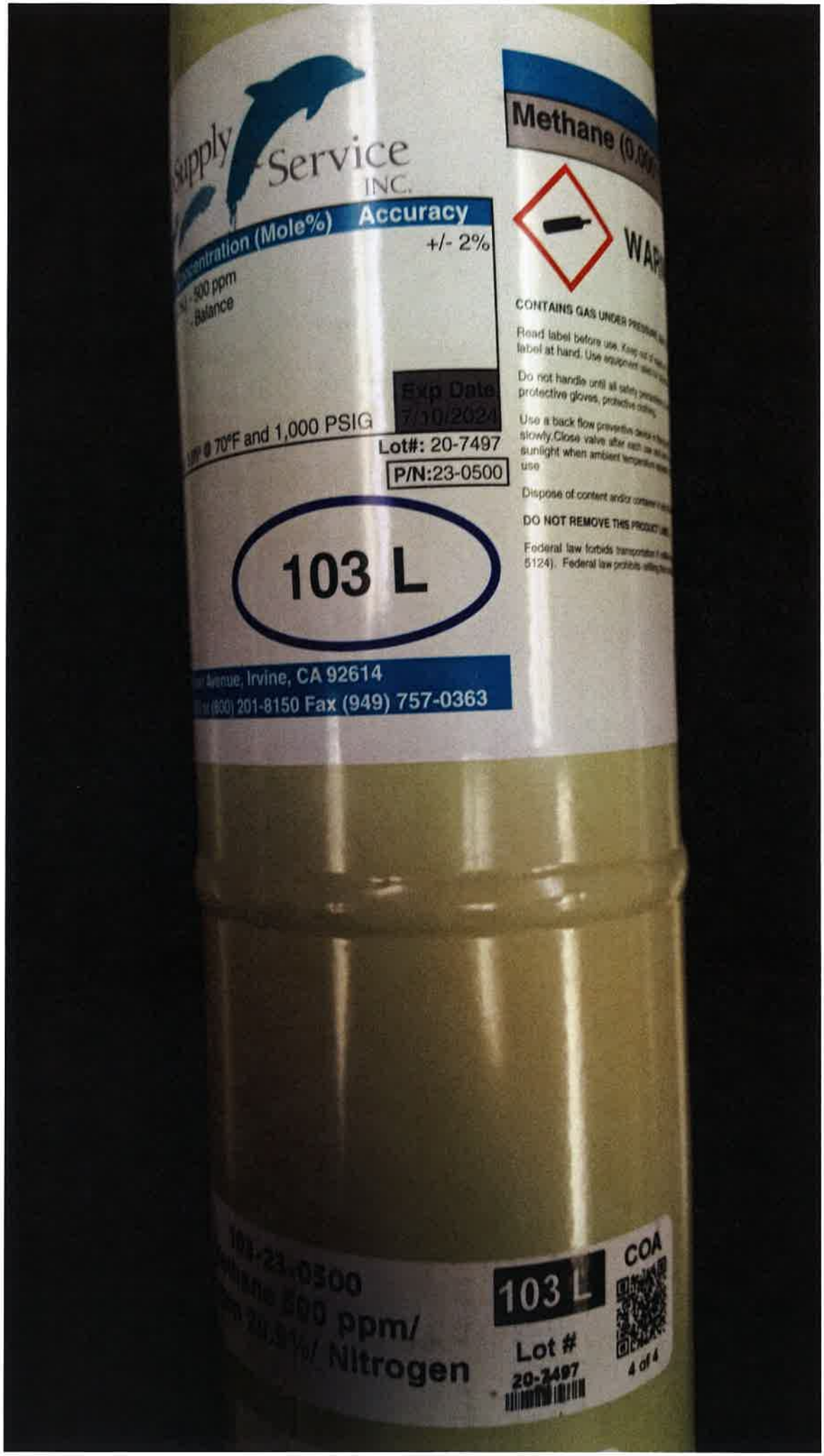
Method of Preparation:

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
Title:	Quality Assurance Manager
Certificate Date:	7/10/2020


Supply Service INC.
Accuracy
+/- 2%
Exp Date
Lot#: 20-7497
P/N:23-0500
103 L
Methane
CONTAINS GAS UNDER PRESSURE
DO NOT REMOVE THIS PRODUCT
Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0363
103 L
COA
Lot #
20-7497
4 of 4
Nitrogen

Intermountain Specialty Gases
520 N. Kings Road
Nampa, ID 83687 (USA)
Phone (800) 552-5003, Fax (208) 466-9143
www.isgases.com

INTERMOUNTAIN SPECIALTY GASES
"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy (+/-)
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

Lot #	**18-6641**
Mfg. Date:	12/18/2018
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	001763

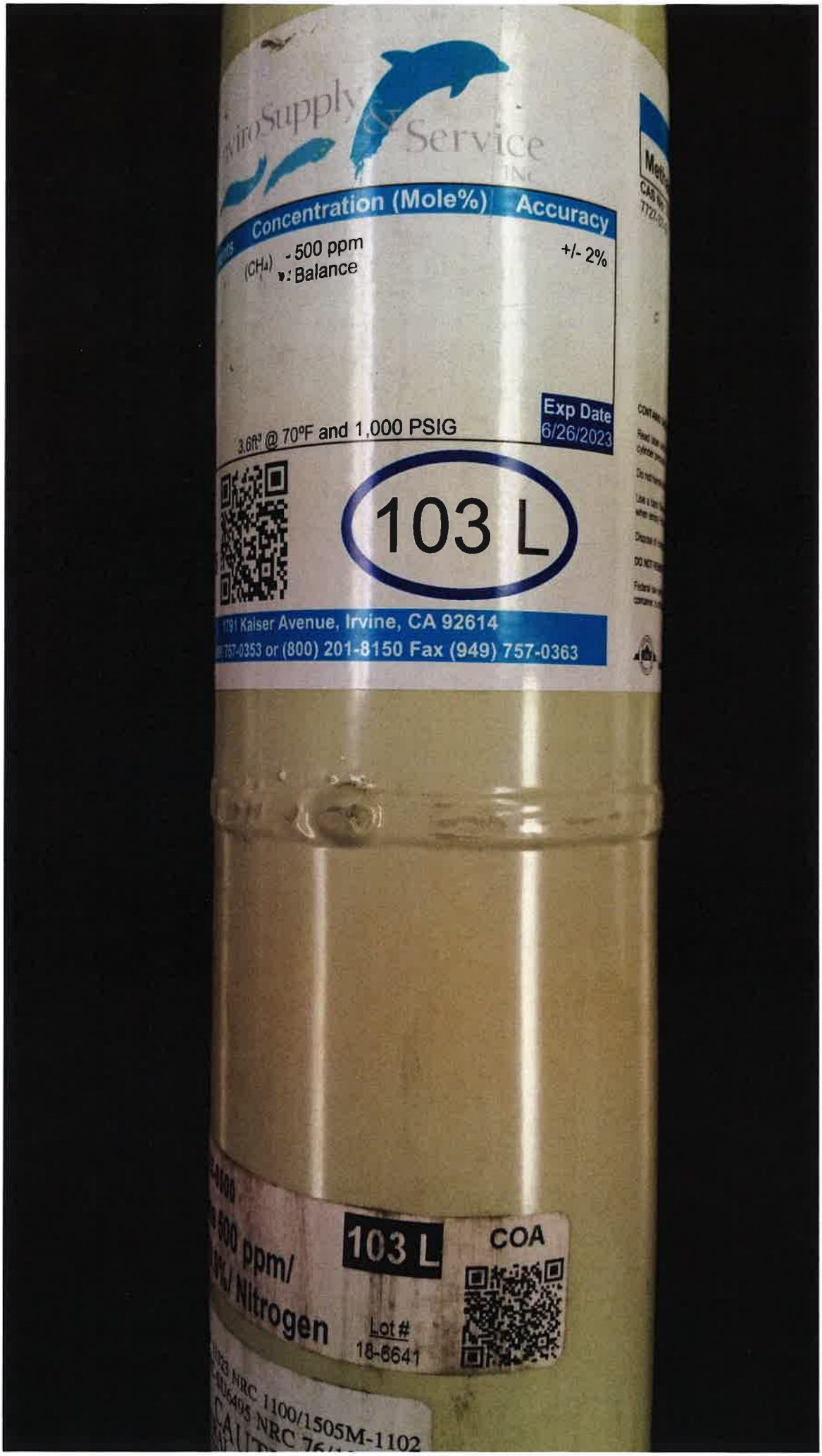
Method of Preparation:

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
Title:	Quality Assurance Manager
Certificate Date:	12/18/2018


Concentration (Mole%)
Accuracy
(CH4) - 500 ppm
: Balance
+/- 2%
3.6ft³ @ 70°F and 1,000 PSIG
Exp Date
6/26/2023
103 L
1191 Kaiser Avenue, Irvine, CA 92614
757-0353 or (800) 201-8150 Fax (949) 757-0363
103 L
COA
Lot #
18-6641
Nitrogen

WASTE MANAGEMENT

172 98th Avenue • Oakland, California • 94568

April 20, 2021

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

Re: First Quarter 2021 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 **First Quarter 2021 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).

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 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)(2).

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.

FIRST QUARTER 20210 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the First Quarter 2021.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on February 23, 2021, in accordance with the NSPS, BAAQMD 8-34, 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 14 exceedances of 500 ppm_v as methane detected on February 23, 2021. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (February 25, 2021).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on March 3, 2021. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on March 23, 2021. 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 February 23, 2021. 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 February 23 and 24, 2021, 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 February 23 and 24, 2021.

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 February 23, 2021. 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

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

2021 QUARTER: 1
INITIAL MONITORING PERFORMED BY: RES **Wind Direction: W**
FOLLOW-UP MONITORING PERFORMED BY: Markus Bernard
LANDFILL NAME: Kirby Canyon LANDFILL **Wind Speed: 2 MPH**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag	Monitoring	Field	Repair	Action taken to repair	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Number	Date	Reading	Date	Exceedance	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	
O1	2/23/2021	1300ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	44 ppm		3/23/2021	6 ppm		Well 128
O22	2/23/2021	40000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	7 ppm		3/23/2021	12 ppm		Well 126
O21	2/23/2021	2800ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	8 ppm		3/23/2021	3 ppm		Well 75
O23	2/23/2021	40000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	34 ppm		3/23/2021	0 ppm		Well 82
O24	2/23/2021	5000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	45 ppm		3/23/2021	27 ppm		Well 118
O2	2/23/2021	700Ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	12 ppm		3/23/2021	0 ppm		Well 151
O41	2/23/2021	2500ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	4 ppm		3/23/2021	4 ppm		Well 51
O42	2/23/2021	5000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	4 ppm		3/23/2021	9 ppm		Well 124
O43	2/23/2021	700ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	8 ppm		3/23/2021	5 ppm		Well 37
O44	2/23/2021	16000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	10 ppm		3/23/2021	5 ppm		Well 83
O45	2/23/2021	1200ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	4 ppm		3/23/2021	3 ppm		Well 62
O46	2/23/2021	4000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	4 ppm		3/23/2021	34 ppm		Well 99
O47	2/23/2021	3800ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	20 ppm		3/23/2021	8 ppm		Well 66
O48	2/23/2021	1000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	33 ppm		3/23/2021	24 ppm		Well 110

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

2021 QUARTER: 1
PERFORMED BY: RES/WM
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments
O1	82	2/23/2021	1,300	Well 128
O22	89	2/23/2021	40,000	Well 126
O21	89	2/23/2021	2,800	Well 75
O23	83	2/23/2021	40,000	Well 82
O24	59	2/23/2021	5,000	Well 118
O2	81	2/23/2021	700	Well 151
O41	68	2/23/2021	2,500	Well 51
O42	74	2/23/2021	5,000	Well 124
O43	83	2/23/2021	700	Well 37
O44	74	2/23/2021	16,000	Well 83
O45	148	2/23/2021	1,200	Well 62
O46	148	2/23/2021	4,000	Well 99
O47	116	2/23/2021	3,800	Well 66
O48	58	2/23/2021	1,000	Well 110

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

2021 QUARTER: 1
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: Markus Bernard
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			
Flag	Monitoring	Field	Repair	Action taken to repair	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Number	Date	Reading	Date	Exceedance	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	Comments
O1	2/23/2021	1300ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	44 ppm		3/23/2021	6 ppm		Well 128
O22	2/23/2021	40000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	7 ppm		3/23/2021	12 ppm		Well 126
O21	2/23/2021	2800ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	8 ppm		3/23/2021	3 ppm		Well 75
O23	2/23/2021	40000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	34 ppm		3/23/2021	0 ppm		Well 82
O24	2/23/2021	5000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	45 ppm		3/23/2021	27 ppm		Well 118
O2	2/23/2021	700Ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	12 ppm		3/23/2021	0 ppm		Well 151
O41	2/23/2021	2500ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	4 ppm		3/23/2021	4 ppm		Well 51
O42	2/23/2021	5000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	4 ppm		3/23/2021	9 ppm		Well 124
O43	2/23/2021	700ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	8 ppm		3/23/2021	5 ppm		Well 37
O44	2/23/2021	16000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	10 ppm		3/23/2021	5 ppm		Well 83
O45	2/23/2021	1200ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	4 ppm		3/23/2021	3 ppm		Well 62
O46	2/23/2021	4000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	4 ppm		3/23/2021	34 ppm		Well 99
O47	2/23/2021	3800ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	20 ppm		3/23/2021	8 ppm		Well 66
O48	2/23/2021	1000ppm	2/25/2021	Dirt/Water/ Pipe Construction	3/3/2021	33 ppm		3/23/2021	24 ppm		Well 110

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

2021 QUARTER: 1
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: Markus Bernard
LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			**1st Re-mon Event - 10 Days**			**2nd Re-mon Event - 10 Days**			
Exceedance	Monitoring	Field	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Grid ID No.	Date	Reading	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	**Comments**
82	2/23/2021	1,300	3/3/2021	44 ppm					Well 128
89	2/23/2021	40,000	3/3/2021	7 ppm					Well 126
89	2/23/2021	2,800	3/3/2021	8 ppm					Well 75
83	2/23/2021	40,000	3/3/2021	34 ppm					Well 82
59	2/23/2021	5,000	3/3/2021	45 ppm					Well 118
81	2/23/2021	700	3/3/2021	12 ppm					Well 151
68	2/23/2021	2,500	3/3/2021	4 ppm					Well 51
74	2/23/2021	5,000	3/3/2021	4 ppm					Well 124
83	2/23/2021	700	3/3/2021	8 ppm					Well 37
74	2/23/2021	16,000	3/3/2021	10 ppm					Well 83
148	2/23/2021	1,200	3/3/2021	4 ppm					Well 62
148	2/23/2021	4,000	3/3/2021	4 ppm					Well 99
116	2/23/2021	3,800	3/3/2021	20 ppm					Well 66
58	2/23/2021	1,000	3/3/2021	33 ppm					Well 110

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

2021 QUARTER: 1
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

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

Orange Flag Landfill Surface Emissions Monitoring
Exceedances and Monitoring Log

Site: KIRBY

Quarter / Year:		1st 2021											Page	of Pages
Technician:		LEIGHWADE												
Instrument:		TVA1000												
Calibration Standard:		500ppm												
Initial Monitoring Event				First Re-Monitoring Event - 10 Days			Second Re-Monitoring Event - 10 Days			30-Day Follow-up Monitoring			Comments	
Flag	Grid	Field Reading	Date	Date	No Excd.	Excd.	Date	No Excd.	Excd.	Date	No Excd.	Excd.		
Number	Number	(ppm)	Monitored	Monitored	<500 ppm	>500 ppm	Monitored	<500 ppm	>500 ppm	Monitored	<500 ppm	>500 ppm		
~~O-~~ 1	82	1300	2-23-21											WELL 20
~~O-~~ 2	81	>100												WELL 151
~~O-~~ 21	89	2800												WELL 75
~~O-~~ 22	89	40,000												WELL 126
~~O-~~ 23	83	40,000												WELL 82
~~O-~~ 24	59	5,000												WELL 118
~~O-~~ 41	68	2500												WELL 51
~~O-~~ 42	74	5,000												WELL 124
~~O-~~ 43	83	700												WELL 37
~~O-~~ 44	74	16,000												WELL 83
O- 45	148	1200												WELL 62
O- 46	148	4,000												WELL 99
~~O-~~ 47	116	3,860												WELL 66
~~O-~~ 48	58	1,000												WELL 110
O-														
O-														
O-														
O-														
O-														
O-														
O-														
O-														
O-														
O-														

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHWADE, JESSE MENNING, OMAR PORTILLA, NICK BANKS

Cal. Gas Exp. Date: 9-21-21

Date: 2-23-21 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 46 Precip: 0 Upwind BG: 2-4 Downwind BG: 3-0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
37	LW	0600	0615	94	2	4	S	
41	OP	0600	0615	117	2	4	S	
42	NB	0600	0615	96	2	4		
43	JM	0600	0615	71	2	4	S	
44	LW	0615	0630	29	2	4	W	
47	OP	0615	0630	75	2	4	W	
48	NB	0615	0630	124	2	4	W	
49	JM	0615	0630	61	2	4	W	
52	LW	0630	0645	113	2	4	W	
53	OP	0630	0645	81	2	4	W	
54	NB	0630	0645	56	2	4	W	
55	JM	0630	0645	39	2	4	W	
57	LW	0645	0700	14	2	4	W	
58	OP	0645	0700	1,000	2	4	W	WELL 110
59	NB	0645	0700	5,000	2	4	W	WELL 118
60	JM	0645	0700	132	2	4	W	
61	LW	0700	0715	47	2	3	S	
64	OP	0700	0715	45	2	3	S	
65	NB	0700	0715	81	2	3	S	
66	JM	0700	0715	113	2	3	S	
67	LW	0715	0730	140	2	3	S	
68	OP	0715	0730	2500	2	3	S	WELL 57
70	NB	0715	0730	20	2	3	S	
71	JM	0715	0730	59	2	3	S	
72	LW	0730	0745	94	2	3	S	
73	OP	0730	0745	147	2	3	S	
74	NB	0730	0745	16,000	2	3	S	WELL 83
75	JM	0730	0745	160	2	3	S	
79	LW	0745	0800	18	2	3	S	
80	OP	0745	0800	84	2	3	S	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leigh Wade, Jesse Manning, Omen Penrith, Nick Banks

Cal. Gas Exp. Date: 9-27-21

Date: 2-23-21 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 50 Precip: 0 Upwind BG: 2-4 Downwind BG: 3-6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
81	ND	0745	0800	700	2	3	S	Well 151
82	JM	0745	0800	1300	2	3	S	Well 120
83	LW	0800	0815	40,000	2	4	N	Well 82
86	OP	0800	0815	31	2	4	N	
87	ND	0800	0815	110	2	4	N	
88	JM	0800	0815	59	2	4	N	
89	LW	0815	0830	40,000	2	4	W	Well 126
90	OP	0815	0830	26	2	4	W	
94	ND	0815	0830	31	2	4	W	
95	JM	0815	0830	25	2	4	W	
96	LW	0830	0845	39	2	3	S	
97	OP	0830	0845	24	2	3	S	
101	ND	0830	0845	155	2	3	S	
102	JM	0830	0845	27	2	3	S	
103	LW	0845	0900	24	2	4	J	
104	OP	0845	0900	19	2	4	J	
105	ND	0845	0900	31	2	4	J	
109	JM	0845	0900	20	2	4	J	
110	LW	0900	0915	11	2	3	J	
111	OP	0900	0915	15	2	3	J	
112	ND	0900	0915	27	2	3	J	
116	JM	0900	0915	3800	2	3	J	Well 166
117	LW	0915	0930	26	2	3	J	
118	OP	0915	0930	40	2	3	J	
119	ND	0915	0930	31	2	3	J	
120	JM	0915	0930	19	2	3	J	
124	LW	0930	0945	51	2	3	J	
125	OP	0930	0945	34	2	3	J	
126	ND	0930	0945	15	2	3	J	
127	JM	0930	0945	50	2	3	J	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE, JESSE MCLENNING, OMAR PONCE DE LEON, NICK BANKS

Cal. Gas Exp. Date: 9-21-21

Date: 2-23-21 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 55 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
128	LW	0945	1000	39	3	4	3	
132	OP	0945	1000	26	3	4	3	
133	NB	0945	1000	45	3	4	3	
134	JM	0945	1000	32	3	4	3	
135	LW	1000	1015	53	2	3	6	
136	OP	1000	1015	28	2	3	6	
137	NB	1000	1015	45	2	3	6	
138	JM	1000	1015	25	2	3	6	
139	LW	1015	1030	19	2	3	6	
140	OP	1015	1030	17	2	3	6	
141	NB	1015	1030	36	2	3	6	
142	JM	1015	1030	18	2	3	6	
143	LW	1030	1045	142	2	4	6	
144	OP	1030	1045	26	2	4	6	
145	NB	1030	1045	31	2	4	6	
146	JM	1030	1045	43	2	4	6	
147	LW	1045	1100	25	2	4	6	
148	OP	1045	1100	4,000	2	4	6	W@199
149	NB	1045	1100	24	2	4	6	
150	JM	1045	1100	26	2	4	6	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHWOOD _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 2-23-21 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	
76								Active trash
77								
91								
98								
106								
113								
121								
129								
84								
92								
99								
107								
1								NO WASTE IN PLACE
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LESLWADE _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 2-23-21 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	
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
38								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
58								

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHANNE _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 2-23-21 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	
85								
93								
100								
108								
114								
115								
122								
123								
130								
131								

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

SITE: KIRBY DATE: 2-23-21

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
	37			
	41			
	42			
	43			
	44			
WELL CC112	47	8.5		
WELL 148	48	13		
WELL 149		8		
	49			
WELL 105	52	10		
WELL 111		6		
WELL 121		25		

SITE: KIRBY DATE: 2-23-21

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
WELL 145	53	8		
	54			
	55			
	57			
WELL 110	58	1,000		
WELL 131		19		
WELL 118	59	5,000		
WELL 146		145		
	60			
WELL 84	61	10		
WELL CC143		7		
CR-11	64	9		

SITE: KIRBY **DATE:** 2-23-21

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
	65			
	66			
	67			
WELL 51	68	2500		
	~~70~~			
WELL 109	71	9		
WELL 147	72	34		
WELL 122		49		
WELL 127	73	12		
WELL 124	74	5,000		
WELL 83		16,000		
WELL 142	75	160		

SITE: Kirby **DATE:** 2-23-21

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
	79			
Well 130	80	13		
Well 108		132		
LC10		15		
Well 151	81	700		
Well 57	82	9		
Well 123		120		
Well 12		1300		
Well 37	83	700		
Well 14	86	5		
Well 119		15		
Well 129	87	14		
Well 152		110		
Well 86	88	11		
Well 126	89	40,000		
Well 82		40,000		
Well 75		2800		
Well 141	90	15		

SITE: LIBBY **DATE:** 2-23-21

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
	94			
	95			
	96			
WELL 139	97	24		
WELL 54		5		
WELL 48	101	155		
EW-76	102	8		
EW 89		6		
WELL 137	103	9		
WELL 65	104	7		
LR04	105	11		
	109			

SITE: Kirby **DATE:** 2-23-21

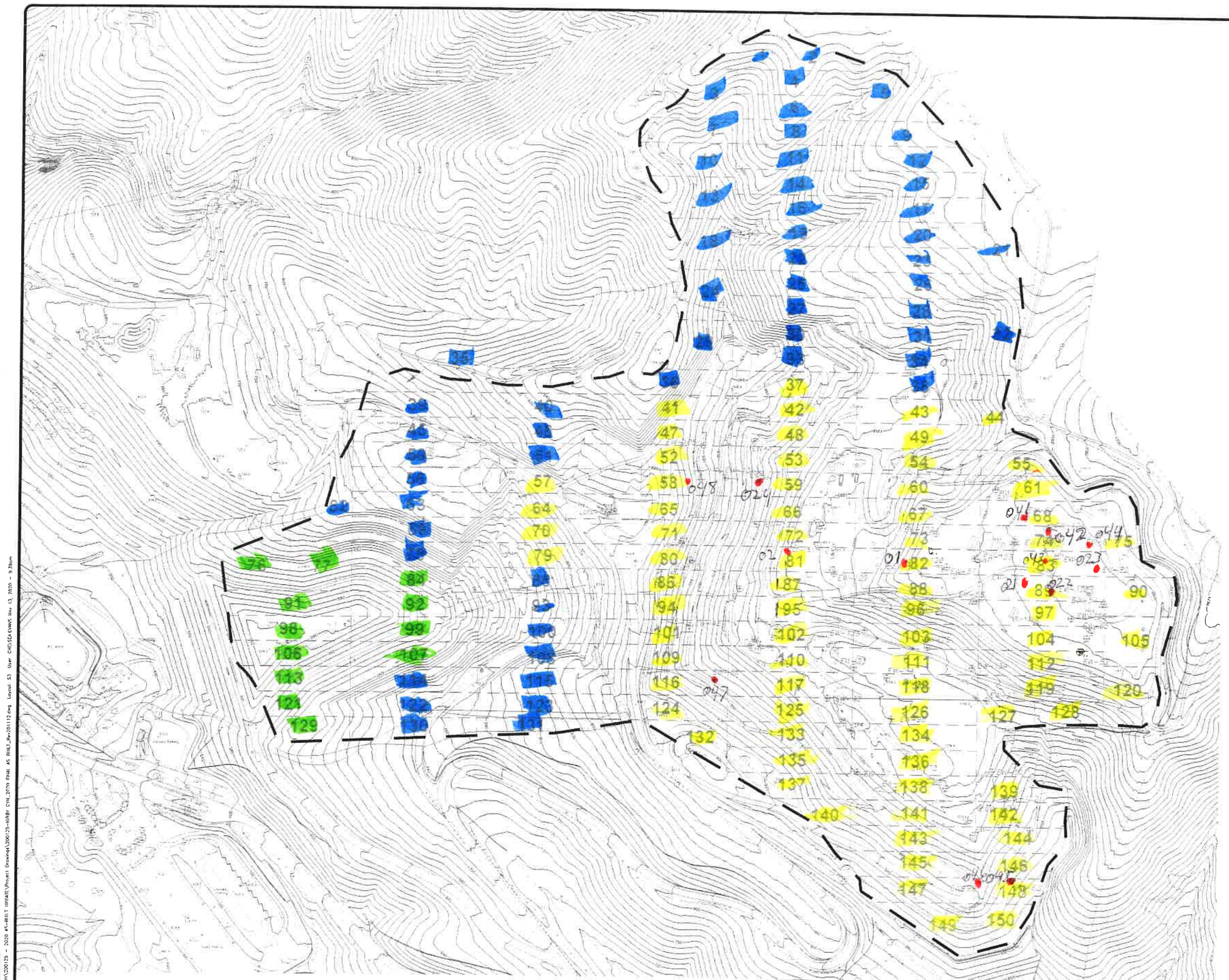
PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
EW 91	110	6		
Well 93		11		
Well 34	111	15		
Well 140	112	15		
Well 66	116	3800		
EW 98	117	9		
Well 92	118	16		
EW 74		9		
Well 185	119	7		
	120			
	124			
E.	125			
Well 95	126	11		

SITE: Kirby DATE: 2-23-21

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
Well 101	127	50		
	128			
	132			
EW 94	133	10		
	134			
	135			
Well 93	136	8		
	137			
Well 88	138	5.8		
EW 90		7		
EW 103	139	11		
EW 102		8		
	140			
	141			
Well 92	142	9		

SITE: KIRBY **DATE:** 2-25-21

PENETRATION ID	GRID NUMBER	INITIAL (PPM)		
WELL 70	143	142		
AW71	144	10		
	145			
	146			
	147			
WELL 62	148	1700		
WELL 99		4,000		
	149			
	150			



LEGEND

- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- 105 — SEM GRID BLOCK

N

0 200 400
SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
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.

INSTANTANEOUS 2-23-21

GRIDS MONITORED
ACTIVE TRIPS
NO WASTE IN PLACE
500+ppm

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 11/12/2020
DRAWN BY GVP
DESIGNED BY CME
CHECKED BY NB
APPROVED BY PJS

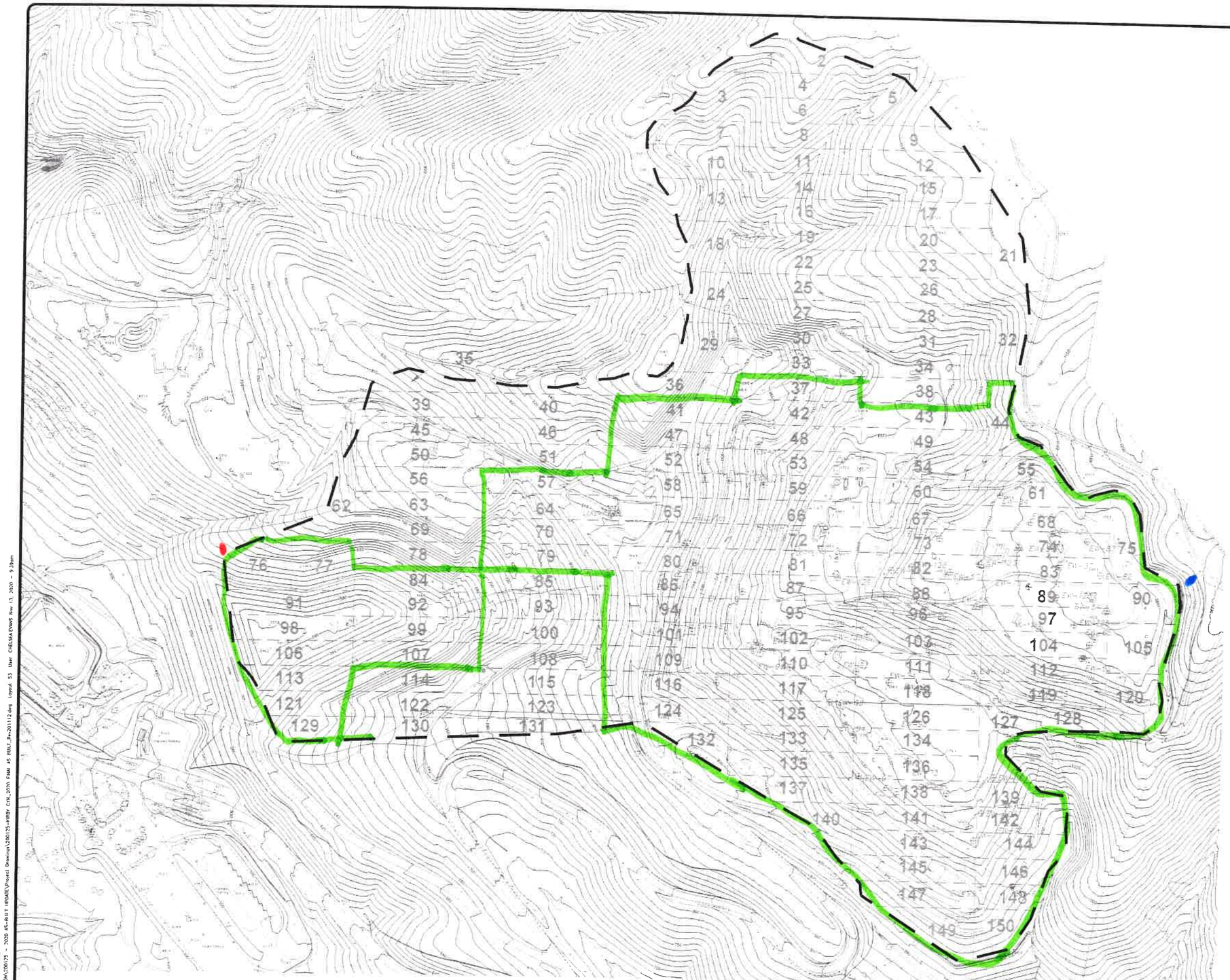
TETRA TECH

KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO. 3
PROJECT NO. 200125

File: X:\GIS\GIS\KIRBY CANYON\200125 - 2020 AS-BUILT UPDATE\Project Drawings\200125-KIRBY CYN_2020 FINAL AS BUILT_Rev20111Z.dwg Layout: S3 User: CHELSEA.EVANS Nov 13, 2020 - 9:39am



LEGEND

- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- 105 — SEM GRID BLOCK

N

0 200 400
SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
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.

1st Quarter 2021
NSPS SWEEP

- UPWIND
- DOWNWIND

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
	DATE OF ISSUE 11/12/2020	DRAWN BY CVP; DESIGNED BY CME			CHECKED BY NB	APPROVED BY PJS

TETRA TECH

KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO. 3
PROJECT NO. 200125

Attachment B

Integrated Surface Emission Monitoring Event Records

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

2021 QUARTER: 1
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**			
Exceedance	Monitoring	Field	Monitoring	No Exced.	No Exced.	
Grid ID No.	Date	Reading	Date	<25 ppm	>25 ppm	**Comments**
None						

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGHWADE, JESSE MCKINNEY
OMAR PENALTA
NICK BANKS
Cal. Gas Exp. Date: 9-21-21

Date: 2-23-21 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 60 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
37	LW	1110	1135	7.51	3	5	3	
41	OP	1110	1135	11.48	3	5	3	
42	NB	1110	1135	15.61	3	5	3	
43	JM	1110	1135	9.28	3	5	3	
44	LW	1135	1200	6.17	4	5	3	
47	OP	1135	1200	10.52	4	5	3	
48	NB	1135	1200	14.75	4	5	3	
49	JM	1135	1200	9.60	4	5	3	
52	LW	1230	1255	10.60	4	6	3	
53	OP	1230	1255	18.54	4	6	3	
54	NB	1230	1255	9.75	4	6	3	
55	JM	1230	1255	6.42	4	6	3	
57	LW	1255	1320	4.18	4	6	3	
58	OP	1255	1320	11.96	4	6	3	
59	NB	1255	1320	20.13	4	6	3	
60	JM	1255	1320	7.10	4	6	3	
61	LW	1320	1345	6.38	4	6	3	
64	OP	1320	1345	4.10	4	6	3	
65	NB	1320	1345	7.28	4	6	3	
66	JM	1320	1345	21.45	4	6	3	
67	LW	1345	1410	24.02	4	6	3	
68	OP	1345	1410	10.21	4	6	3	
70	NB	1345	1410	4.28	4	6	3	
71	JM	1345	1410	8.16	4	6	3	
72	LW	1410	1435	7.41	4	8	5	
73	OP	1410	1435	6.18	4	8	5	
74	NB	1410	1435	5.10	4	8	5	
75	JM	1410	1435	6.54	4	8	5	
79	LW	1435	1500	4.28	4	6	4	
80	OP	1435	1500	7.96	4	6	4	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LESLIE WADE, JESSE ROWLING
OMAR PENCE JR
NICK BANKS

Cal. Gas Exp. Date: 9-21-21

Date: 2-22-21 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 64 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
81	NB	1435	1500	7.51	4	6	4	
82	JR	1435	1500	8.25	4	6	4	
83	LW	1500	1525	6.40	4	8	6	
86	OP	1500	1525	6.92	4	8	6	
87	NB	1500	1525	8.50	4	8	6	
88	JR	1500	1525	7.94	4	8	6	
89	LW	1525	1550	5.28	4	8	6	
90	OP	1525	1550	4.61	4	8	6	
94	NB	1525	1550	5.21	4	8	6	
95	JR	1525	1550	6.11	4	8	6	
96	LW	1550	1615	5.79	4	8	6	
97	OP	1550	1615	5.32	4	8	7	
101	NB	1550	1615	5.16	4	8	7	
102	JR	1550	1615	4.98	4	8	7	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leigh Wade _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 2-23-21 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	
76								Active Fnsh
71								
91								
98								
106								
113								
121								
129								
84								
92								
99								
107								
1								No waste in place
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leishman _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 2-23-21 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	
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
38								
39								
40								
45								
46								
50								
51								
56								
62								
63								
65								
58								

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leishman _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 2-23-21 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	
85								
93								
100								
108								
114								
115								
122								
123								
130								
131								

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leigh Wood, Jesse McInnis, _____
Owen Pendleton, _____, _____
Nick Banks, _____, Cal. Gas Exp. Date: 9-21-21

Date: 2-24-21 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 46 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
103	LW	0550	0615	5.64	4	5	S	
104	op	0550	0615	4.25	4	5	S	
105	ND	0550	0615	4.72	4	5	S	
109	JM	0550	0615	5.71	4	5	S	
110	LW	0615	0640	5.34	4	5	S	
111	op	0615	0640	5.72	4	5	S	
112	ND	0615	0640	5.98	4	5	S	
116	JM	0615	0640	4.22	4	5	S	
117	LW	0640	0705	5.10	4	5	S	
118	op	0640	0705	4.74	4	5	S	
119	ND	0640	0705	4.62	4	5	S	
120	JM	0640	0705	5.12	4	5	S	
124	LW	0705	0730	4.75	3	5	W	
125	op	0705	0730	5.12	3	5	W	
126	ND	0705	0730	4.45	3	5	W	
127	JM	0705	0730	5.39	3	5	W	
128	LW	0730	0755	4.46	3	6	W	
132	op	0730	0755	3.65	3	6	W	
133	ND	0730	0755	4.48	3	6	W	
134	JM	0730	0755	3.21	3	6	W	
135	LW	0755	0820	4.87	4	6	W	
136	op	0755	0820	4.26	4	6	W	
137	ND	0755	0820	4.55	4	6	W	
138	JM	0755	0820	3.22	4	6	W	
139	LW	0820	0845	4.65	4	6	S	
140	op	0820	0845	3.21	4	6	S	
141	ND	0820	0845	4.15	4	6	S	
142	JM	0820	0845	3.61	4	6	S	
143	LW	0845	0910	4.17	3	4	S	
144	op	0845	0910	3.44	3	4	S	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leigh Wright, Jesse Menning, Omer Penelta, Nick Bones

Cal. Gas Exp. Date: 9-21-21

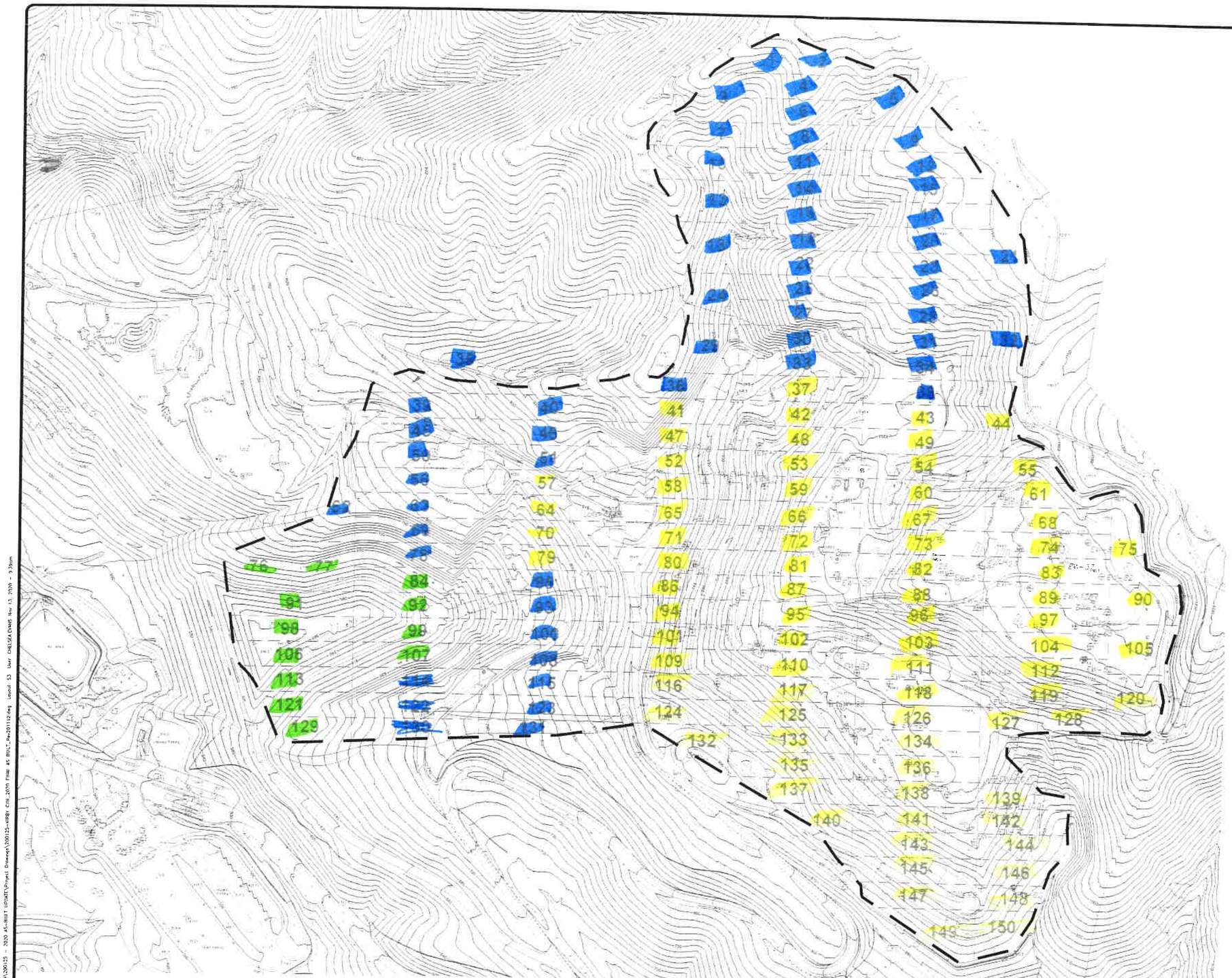
Date: 2-24-21 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 51 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.0

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
145	NB	0845	0910	4.12	3	4	8	
146	JM	0845	0910	3.99	3	4	8	
147	LW	0910	0935	4.50	2	3	7	
148	OP	0910	0935	3.61	2	3	7	
149	NB	0910	0935	4.28	2	3	7	
150	JM	0910	0935	3.96	2	3	7	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2



LEGEND

- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- 105 — SEM GRID BLOCK

N

0 200 400
SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
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.

INTEGRATED 2-23-21
2-24-21

GRIDS MONITORED
Active-trass
No waste in place

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
	DATE OF ISSUE 11/12/2020	DRAWN BY CVP / DESIGNED BY CME	CHECKED BY NB / APPROVED BY PJS			

TETRA TECH

KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO. 3
PROJECT NO. 200125

File: X:\PROJECTS\KIRBY CANYON\200125 - 2020 AS-BUILT UPDATE\Project Drawings\200125-WMKY CIN_2019 Final AS BUILT_Rev20111206.dwg Layout: S3 User: CHELSEA.EVANS Nov 13, 2020 - 9:39am

Attachment C

Component Leak Monitoring Event Records

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

2021 QUARTER: 1
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: WM
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	02/23/21	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

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

2021 QUARTER: 1
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: WM
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	02/23/21	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

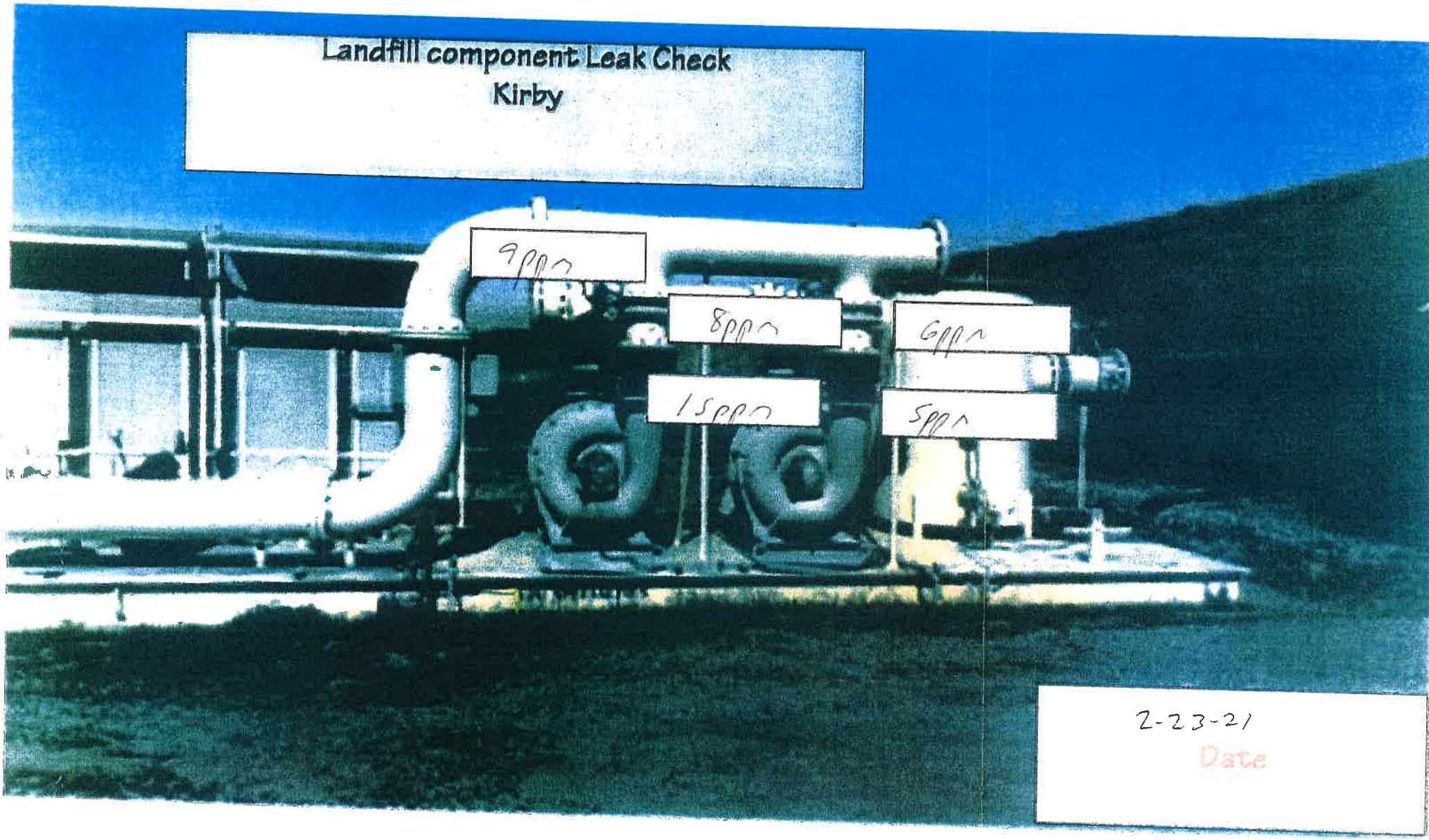
DATE OF SAMPLING: 2-23-21
TECHNICIAN: Leishmore

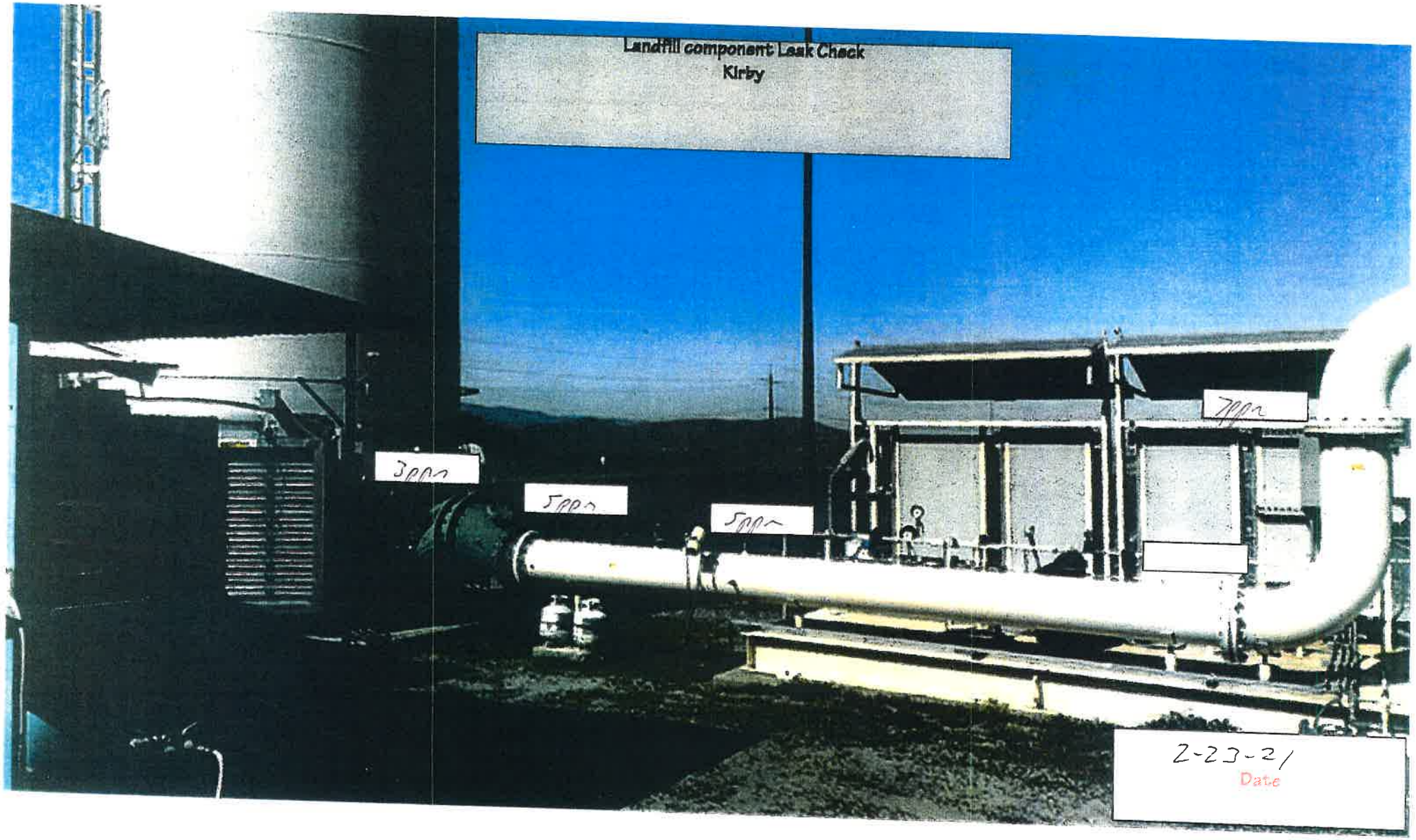
LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
Nonexceedances							

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.

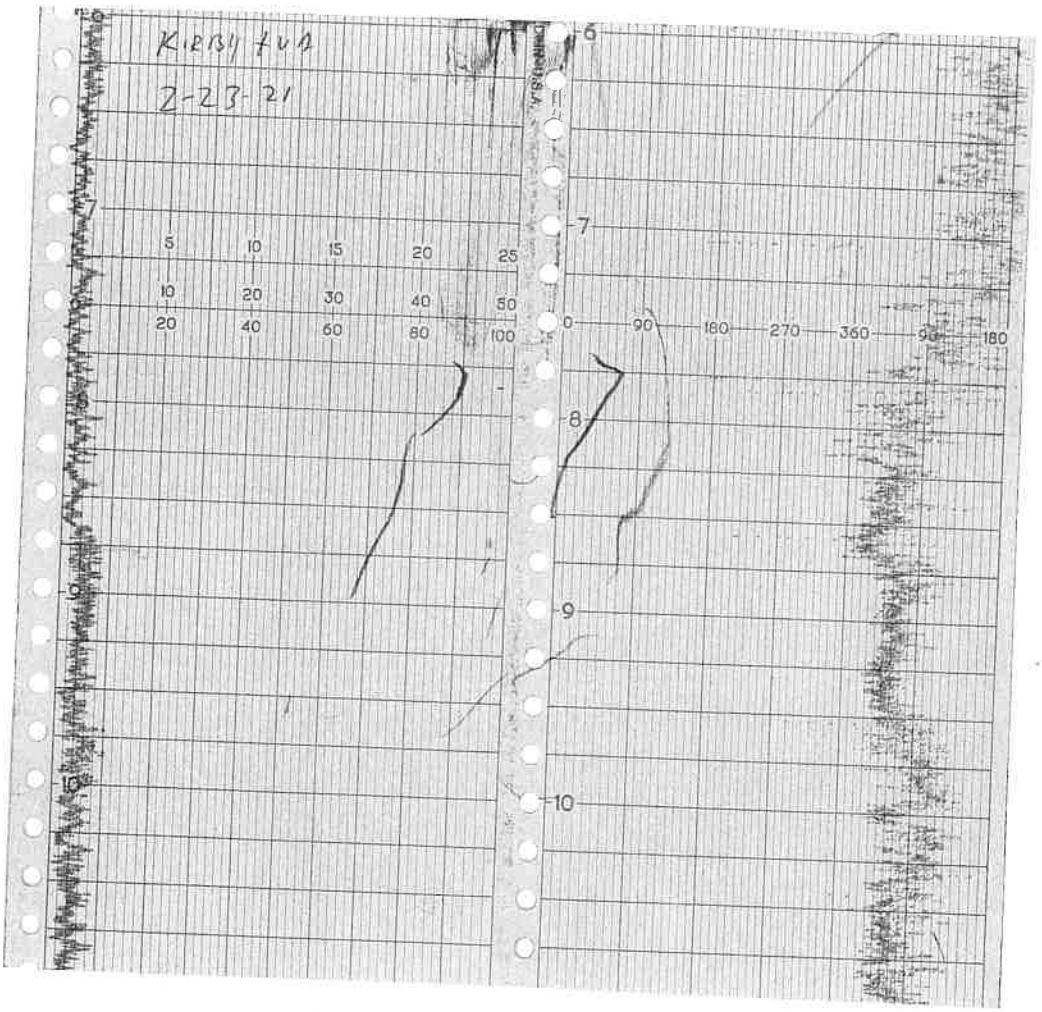

Landfill component Leak Check
Kirby
9ppm
8ppm
6ppm
15ppm
5ppm
2-23-21
Date


Landfill component Leak Check
Kirby
3PPM
5PPM
5PPM
7PPM
2-23-21
Date

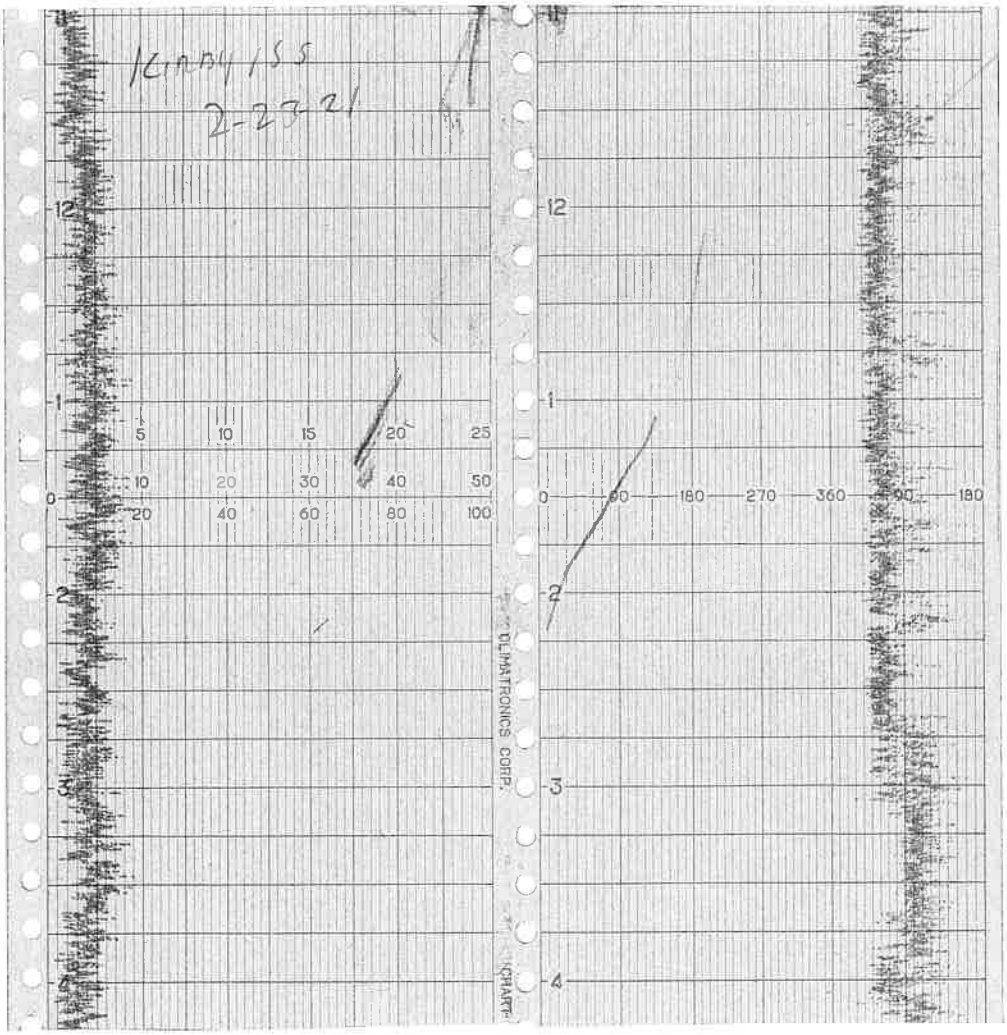
Attachment D

Weather Station Data

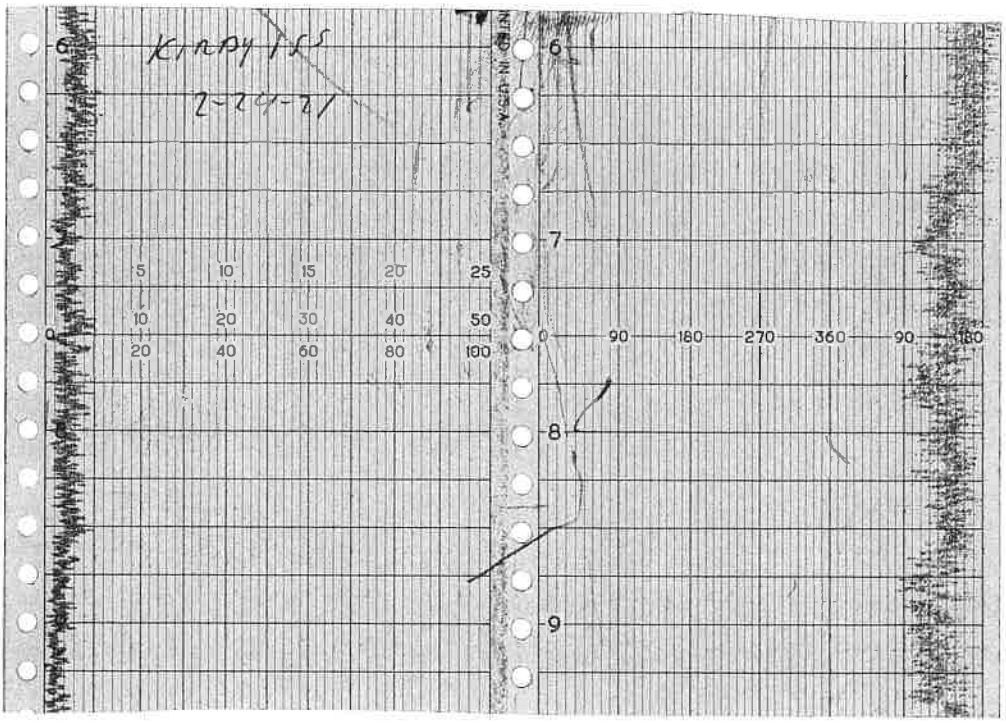
WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



RES Environmental Inc.

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

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

Attachment E

Calibration Records

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Kirby INSTRUMENT MAKE: Horiba

MODEL: VA 1000 EQUIPMENT #: 10 SERIAL #: 10636467773

MONITORING DATE: 2-23-21 TIME: 0555

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 560 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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	497 ppm	447 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	0.27 ppm	497 ppm	3
#2	0.15 ppm	502 ppm	2
#3	0.07 ppm	508 ppm	8
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.33 #DIV/0! Must be less than 10%

Performed By: Louis Lopez Date/Time: 2-23-21 0550

ESE

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA1000 EQUIPMENT #: 11 SERIAL #: 1036346774

MONITORING DATE: 2-23-21 TIME: 0555

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	506 ppm	456 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	0.38 ppm	492 ppm	8
#2	0.22 ppm	506 ppm	6
#3	0.14 ppm	500 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.93 #DIV/0! Must be less than 10%

Performed By: Omanpunalth Date/Time: 2-23-21 0555

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: Honno

MODEL: TA1000 EQUIPMENT #: 12 SERIAL #: 1036246741

MONITORING DATE: 2-23-21 TIME: 0555

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	6
#2	502 ppm	452 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	0.27 ppm	485 ppm	11
#2	0.15 ppm	502 ppm	2
#3	0.09 ppm	500 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.86 #DIV/0! Must be less than 10%

Performed By: NICK BANKS Date/Time: 2-23-21 0555

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA 1000 EQUIPMENT #: 13 SERIAL #: 1162046775

MONITORING DATE: 2-23-21 TIME: 0555

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	500 ppm	450 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	0-20 ppm	507 ppm	7
#2	0-14 ppm	500 ppm	0
#3	0-10 ppm	500 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.46 #DIV/0! Must be less than 10%

Performed By: JESSE MANNING Date/Time: 2-23-21 0555

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: TOXIRAE

MODEL: TVA 1000 EQUIPMENT #: 10 SERIAL #: 1036346773

MONITORING DATE: 2-23-21 TIME: 1105

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	0.34 ppm	24 ppm	1
#2	0.17 ppm	21 ppm	0
#3	0.10 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: Leigh Wilk Date/Time: 2-23-21 - 1105

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KIRBY INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 11 SERIAL #: 1036346774

MONITORING DATE: 2-23-21 TIME: 1105

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	0.29 ppm	23 ppm	2
#2	0.20 ppm	25 ppm	0
#3	0.13 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: Omar Portela Date/Time: 2-23-21 - 1105

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA1000 EQUIPMENT #: 12 SERIAL #: 1036246741

MONITORING DATE: 2-23-21 TIME: 1105

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 **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	24 ppm	21.6 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	0.37 ppm	24 ppm	1
#2	0.24 ppm	24 ppm	1
#3	0.16 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: NICK BENICS Date/Time: 2-23-21-1105

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 13 SERIAL #: 1102746775

MONITORING DATE: 2-22-21 TIME: 1105

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	24 ppm	21.6 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	0.16 ppm	23 ppm	2
#2	0.11 ppm	24 ppm	1
#3	0.09 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			4.0 #DIV/0! Must be less than 10%

Performed By: Jesse Manning Date/Time: 2-23-21 - 1105.

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA 1000 EQUIPMENT #: 10 SERIAL #: 1036346773

MONITORING DATE: 2-24-21 TIME: 0545

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 **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	0.18 ppm	24 ppm	1
#2	0.14 ppm	25 ppm	0
#3	0.07 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: CRAIG WADE Date/Time: 2-24-21 - 0545

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: THermo

MODEL: TVA1000 EQUIPMENT #: 11 SERIAL #: 1036346774

MONITORING DATE: 2-24-21 TIME: 0545

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	0.28 ppm	23 ppm	2
#2	0.16 ppm	25 ppm	0
#3	0.08 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: Omar Ponce HA Date/Time: 2-24-21 – 0545

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA1000 EQUIPMENT #: 12 SERIAL #: 1036241741

MONITORING DATE: 2-24-21 TIME: 0545

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	24 ppm	21.6 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	0.34 ppm	24 ppm	1
#2	0.19 ppm	24 ppm	1
#3	0.11 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: NICK BANKS Date/Time: 2-24-21 – 0545

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: tHorno

MODEL: tva 1000 EQUIPMENT #: 13 SERIAL #: 1102746775

MONITORING DATE: 2-24-21 TIME: 0545

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
2.4 ppm	3.0 ppm	2.7 ppm

Background Value = 2.7 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	24 ppm	21.6 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	0.20 ppm	23 ppm	2
#2	0.16 ppm	24 ppm	1
#3	0.11 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			4.0 #DIV/0! Must be less than 10%

Performed By: Jesse Manning Date/Time: 2-24-21 – 0545

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Landfill Date: 3/3/21

Time: _____ AM 3:21 PM

Instrument Make: Thermo Scientific Model: TVA 1000 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 = 500 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 6 ppm (a)
2. Downwind Reading (highest in 30 seconds): 4 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 5 ppm

Performed by: Markus Bernard

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Landfill Date: 3/23/21

Time: 11:35 AM _____ PM

Instrument Make: Thermo Scientific Model: TVA 1000 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 = 500 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 6 ppm (a)
2. Downwind Reading (highest in 30 seconds): 4 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 5 ppm

Performed by: Markus Bernard

CALIBRATION PRECISION TEST RECORD

Date: 3/3/2021

Expiration Date (3 months): 6/2/2021

Time: 8:48 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: 500 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 498 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 496 ppm (f)

Calculate Precision:

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

1.2 % (must be < than 10%)

Performed by: M. Bernard

RESPONSE TIME TEST RECORD

Date: 3/3/21

Expiration Date (3 months): 6/2/21

Time: 8:48 AM _____ PM

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

Measurement #1:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 450 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: 498 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 7 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 498 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 7 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 8 seconds (must be less than 30 seconds)

Performed by: M. Bernard

INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Air - Zero		
THC	< 2 PPM	
Oxygen	20.9%	± 2%
Nitrogen	Balance	

Lot # 19-6779

Mfg. Date: 4/3/2019

Parent Cylinder ID Number: 001739, 02268

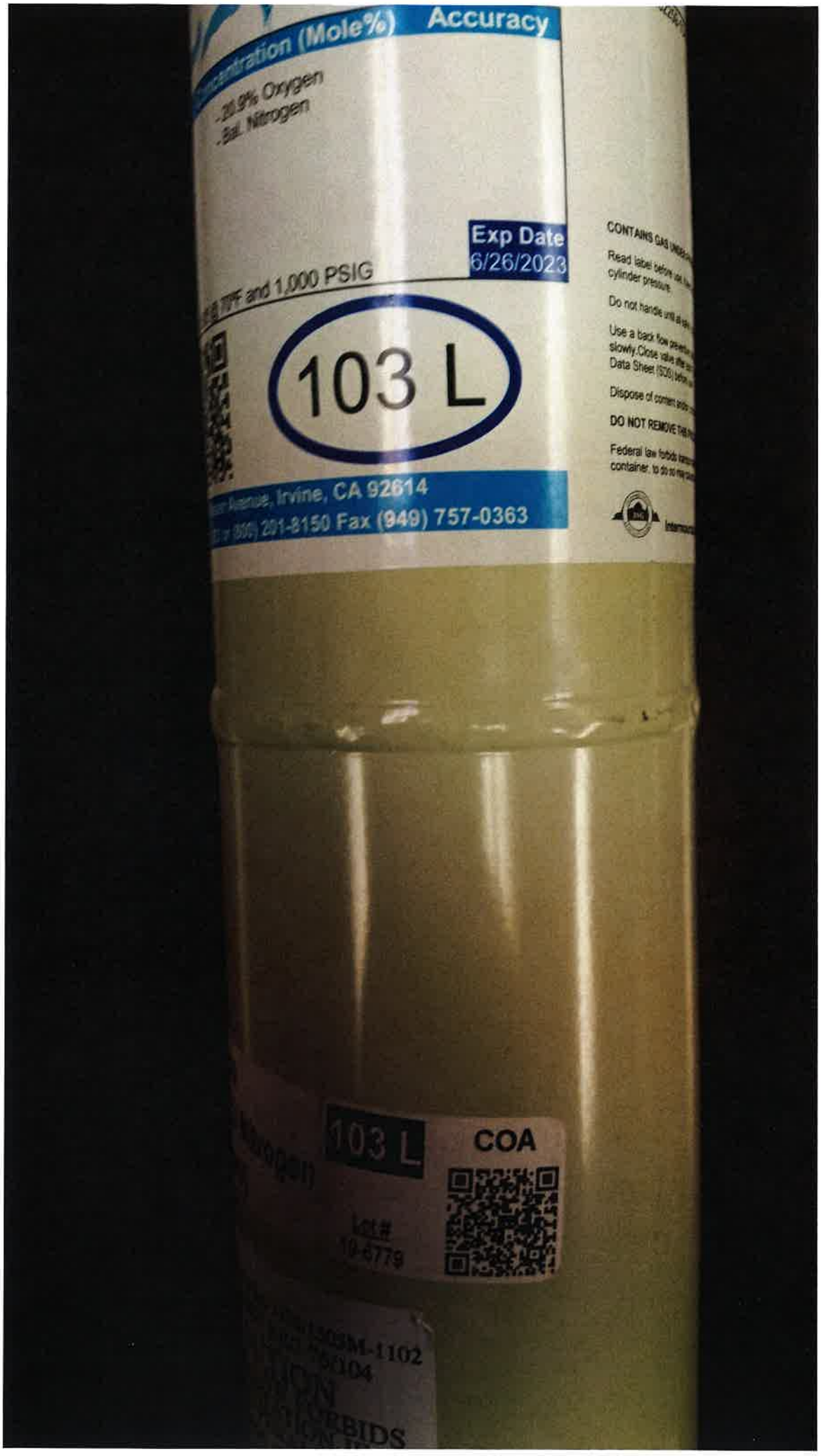
Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

This 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: 4/3/2019


Concentration (Mole%) Accuracy
-20.9% Oxygen
-Bal. Nitrogen
Exp Date
6/26/2023
and 1,000 PSIG
103 L
Irvine, CA 92614
(949) 757-0363
CONTAINS GAS UNDER
Read label before
cylinder pressure.
Do not handle until
Use a back flow
slowly.Close valve
Data Sheet (SDS)
Dispose of content
DO NOT REMOVE
Federal law forbids
container, to do so
103 L
COA
Lot #
19-6779
1303M-1102
6104
BIDS

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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

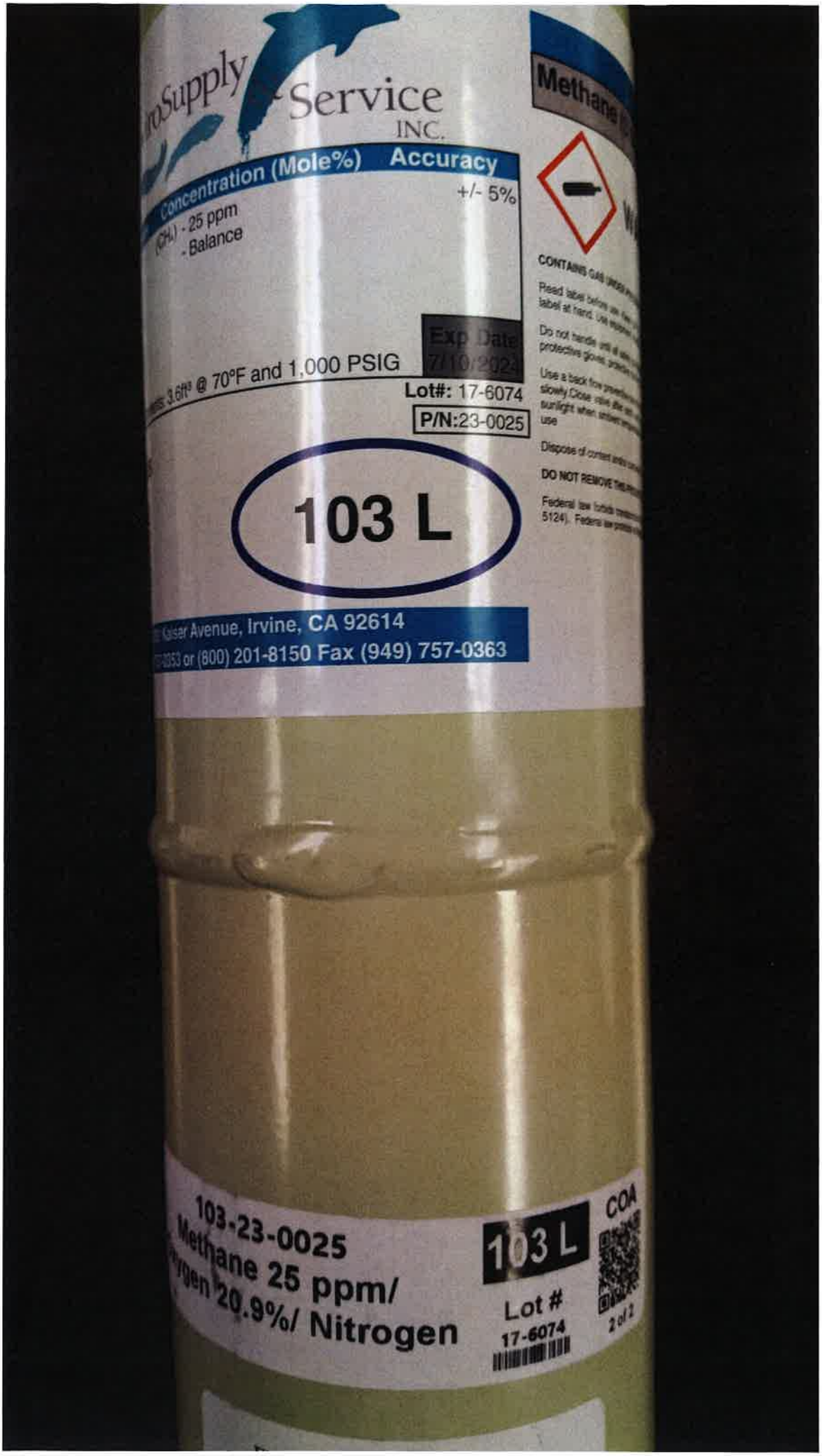
Method of Preparation:

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


Service
INC.
Concentration (Mole%) Accuracy
+/- 5%
(CH4) - 25 ppm
- Balance
Exp Date
7/10/2024
Lot#: 17-6074
P/N:23-0025
103 L
Kaiser Avenue, Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0363
103-23-0025
Methane 25 ppm/
20.9%/ Nitrogen
103 L
Lot #
17-6074
COA
2 of 2

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Nampa, ID 83687 (USA)
Phone (800) 552-5003, Fax (208) 466-9143
www.isgases.com

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"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy (+/-)
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

Lot #	20-7497
Mfg. Date:	7/10/2020
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	TWC001763

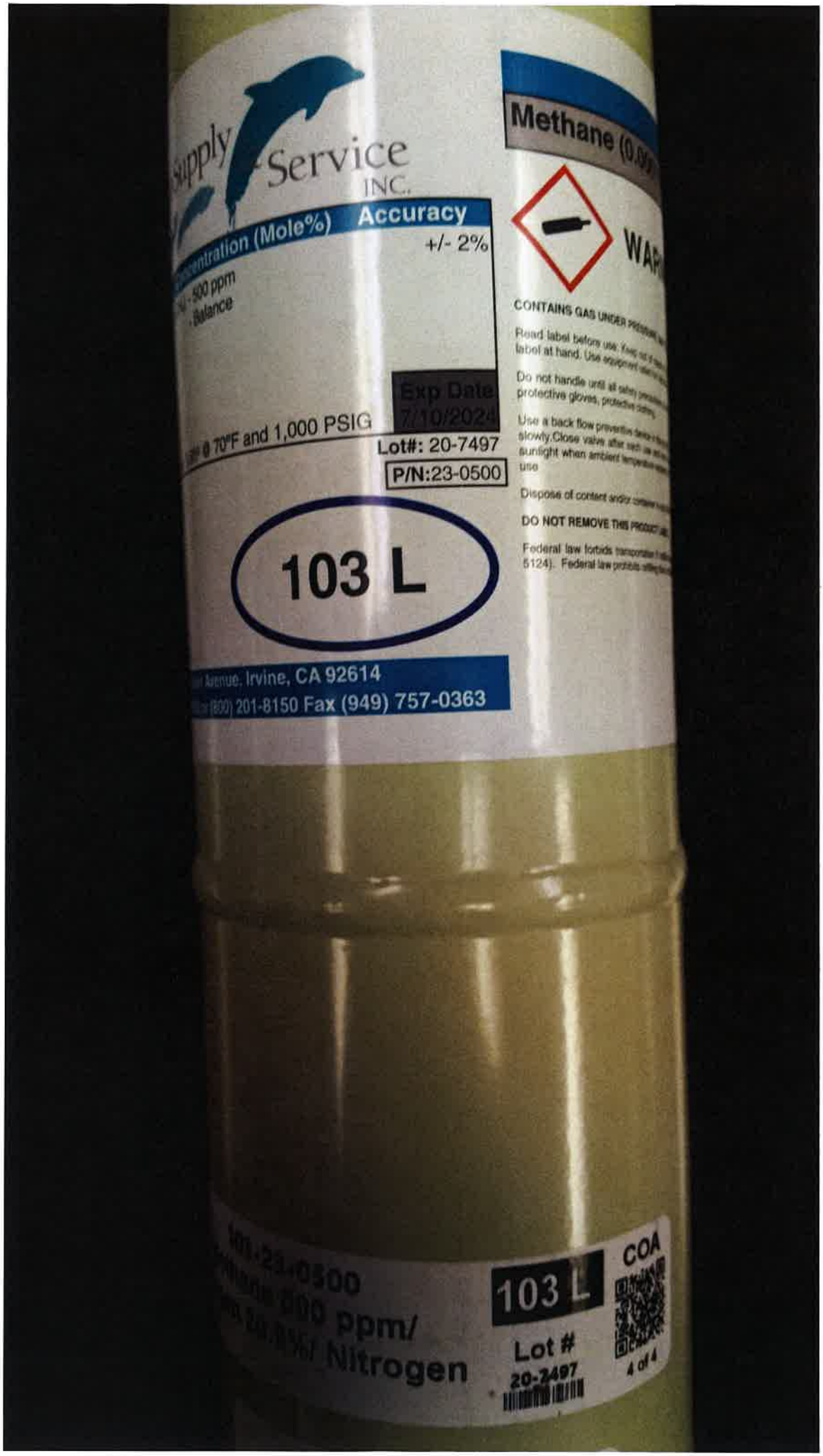
Method of Preparation:

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
Title: Quality Assurance Manager
Certificate Date: 7/10/2020


Supply Service INC.
Methane (0.5%)
Accuracy
+/- 2%
Exp Date
7/10/2024
Lot#: 20-7497
P/N:23-0500
103 L
Irvine, CA 92614
Fax (949) 757-0363
CONTAINS GAS UNDER PRESSURE
DO NOT REMOVE THIS PRODUCT
Nitrogen
103 L
Lot #
20-2497
COA
4 of 4

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"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy (+/-)
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

Lot #	**18-6641**
Mfg. Date:	12/18/2018
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	001763

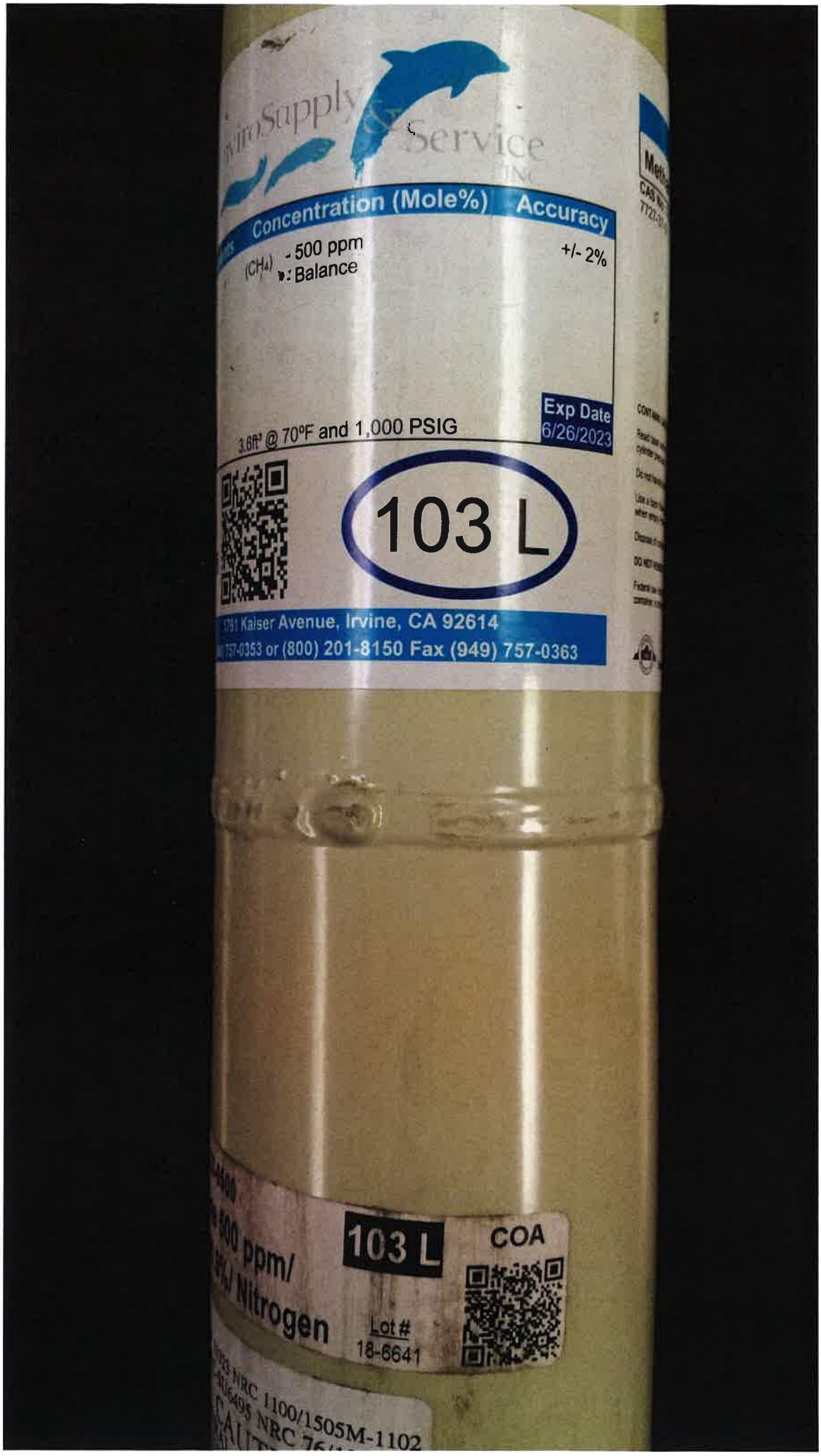
Method of Preparation:

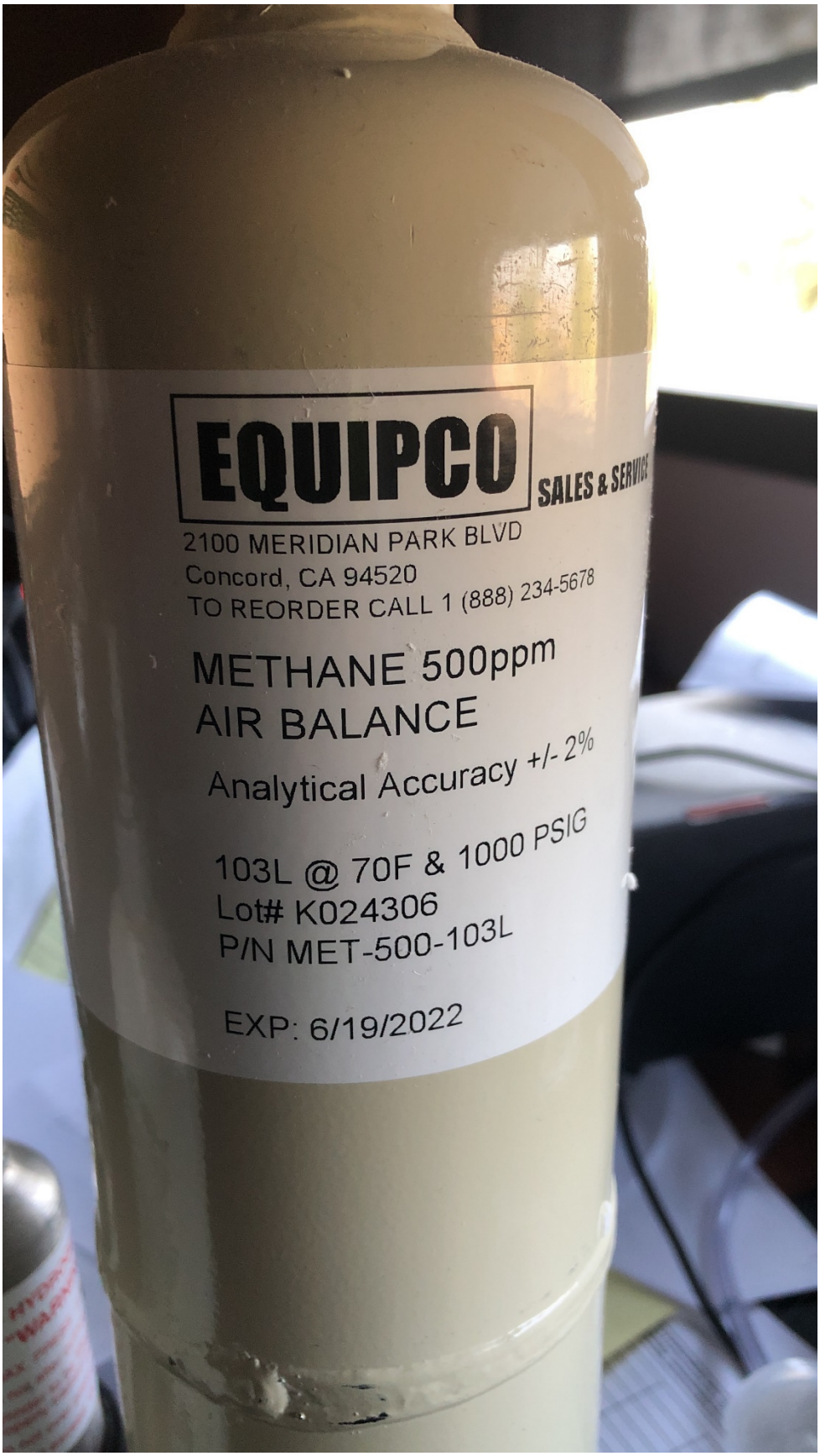
Gravimetric/Pressure Transfilled

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
Title:	Quality Assurance Manager
Certificate Date:	12/18/2018


Concentration (Mole%)
Accuracy
500 ppm
Balance
+/- 2%
Exp Date
6/26/2023
3.6R³ @ 70°F and 1,000 PSIG
103 L
5781 Kaiser Avenue, Irvine, CA 92614
757-0353 or (800) 201-8150 Fax (949) 757-0363
103 L
COA
Lot #
18-6641
Nitrogen
NRC 1100/1505M-1102


EQUIPCO
SALES & SERVICE
2100 MERIDIAN PARK BLVD
Concord, CA 94520
TO REORDER CALL 1 (888) 234-5678
METHANE 500ppm
AIR BALANCE
Analytical Accuracy +/- 2%
103L @ 70F & 1000 PSIG
Lot# K024306
P/N MET-500-103L
EXP: 6/19/2022

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 2-6-21 **Time:** 0930

Model # TVA1000 B

Serial # 10 1036346773

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.7 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	1-9-21	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. 7 / Average 6.3
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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(909) 422-1001 Toll Free (888) 325-1098 Fax (909) 422-0707 www.resenvironmental.com

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 2-6-21 **Time:** 0945

Model # TVA 1000 B

Serial # # 11 1036346774

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.6 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	1-9-21	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. 7 / Average 6.3
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

465

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JL JM

Date: 2-6-21 **Time:** 1000

Model # TVA-1000B

Serial # #12 1036246741

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.1 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	1-9-21	Time required to attain 90% of Cal Gas ppm: 1. 7 / 2. 7 / 3. 6
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average 6.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 2-6-21 **Time:** 1015

Model # TVA 1000 B

Serial # #13 1102746775

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.6 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	1-9-21	Time required to attain 90% of Cal Gas ppm: 1. 7 / 2. 7 / 3. 6 / Average 6.6
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #10

SERIAL NUMBER: 1036346773

TECHNICIAN: [signature] DATE: 1-9-21

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	10,103	+/- 2500
< 1	ZERO GAS	0.64	< 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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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #11

SERIAL NUMBER: 1036346774

TECHNICIAN: [signature] DATE: 1-9-21

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	10,101	+/- 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.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #12

SERIAL NUMBER: 1036246741

TECHNICIAN: [signature] DATE: 1-9-21

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.

P.O. Box 748 ▪ Colton, California 92324
(909) 422-1001 ▪ TOLL FREE (888) 325-1098 ▪ FAX (909) 422-0707 ▪ www.resenvironmental.com

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 13

SERIAL NUMBER: 1102746775

TECHNICIAN: [signature] DATE: 1-9-21

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	10,001	+/- 2500
< 1	ZERO GAS	0.58	< 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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APPENDIX G

COMPONENT LEAK CHECK REPORTS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
FIRST QUARTER 2021 LFG COMPONENT LEAK MONITORING

INSTRUMENT FID
MAKE: Photo Scientific
MODEL: TVA 1000
S/N: 1036346773

DATES OF SAMPLING: February 23, 2021
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 FIRST QUARTER 2021 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
SECOND QUARTER 2021 LFG COMPONENT LEAK MONITORING

INSTRUMENT FID
MAKE: Photo Scientific
MODEL: TVA 1000
S/N: 1036346773

DATES OF SAMPLING: May 18, 2021
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 SECOND QUARTER 2021 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

January 1, 2021 through June 30, 2021

January	Disposed	February	Disposed	March	Disposed	April	Disposed	May	Disposed	June	Disposed
Total in Tons	21,063		19,197		19,432		17,984		16,625		17,423

Total Disposed January 1, 2021 through June 30, 2021 **111,724**

APPENDIX I

WELLFIELD MONITORING LOGS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - January 12, 13, and 14, 2021

Device ID	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	1/14/21 9:58 AM	46.6	34.2	3.5	15.7	58.6	58.6	-4.0	-4.0
KCLC0109	1/14/21 9:50 AM	47.9	37.2	0.1	14.8	93.8	101.5	-53.1	-53.9
KCLC0110	1/14/21 9:43 AM	51.9	38.3	0.1	9.7	113.7	113.7	-51.8	-52.1
KCLC0111	1/14/21 8:54 AM	57.0	41.4	0.4	1.2	101.9	102.2	-52.1	-52.1
KCLC0112	1/14/21 8:49 AM	49.6	39.3	0.1	11.0	115.3	115.3	-51.1	-51.1
KCLC0139	1/12/21 4:32 PM	56.9	43.1	0.0	0.0	108.8	108.8	-38.5	-38.5
KCLC0140	1/12/21 3:53 PM	40.4	36.6	0.1	22.9	104.7	103.4	-2.4	-1.5
KCLC0141	1/14/21 1:08 PM	38.7	33.8	0.1	27.4	92.0	90.9	-0.7	-0.4
KCLC0142	1/13/21 8:14 AM	24.8	28.5	0.1	46.6	100.0	96.4	-0.4	-0.2
KCLC0143	1/12/21 3:22 PM	38.6	34.6	0.1	26.7	94.9	92.9	-1.7	-0.8
KCLC0143	1/13/21 7:58 AM	34.8	33.4	0.0	31.8	102.1	98.3	-0.8	-0.3
KCLC0144	1/13/21 3:03 PM	56.4	42.0	0.1	1.5	91.8	92.0	-46.0	-46.0
KCLC0145	1/13/21 10:41 AM	56.0	41.4	0.5	2.1	77.0	77.1	-47.7	-47.8
KCLC0146	1/13/21 10:33 AM	57.8	42.2	0.0	0.0	67.1	69.6	-47.8	-47.8
KCLC0147	1/13/21 10:28 AM	57.9	42.1	0.0	0.0	93.8	93.8	-44.2	-43.7
KCLC0148	1/13/21 10:45 AM	54.0	40.3	0.6	5.1	59.9	59.9	-47.7	-48.5
KCLC0149	1/13/21 10:51 AM	53.9	42.6	0.0	3.5	83.9	84.4	-3.5	-4.5
KCLC0151	1/13/21 10:23 AM	51.1	40.5	0.0	8.4	107.1	107.1	-22.4	-22.3
KCLC0152	1/13/21 10:19 AM	37.6	34.4	0.0	28.0	108.7	108.2	-13.0	-11.9
KCYN0014	1/14/21 9:10 AM	43.9	29.6	0.0	26.5	90.8	90.7	-2.7	-2.7
KCYN0027	1/12/21 11:16 AM	48.2	38.7	0.0	13.1	115.5	115.4	-22.0	-21.4
KCYN0037	1/12/21 4:59 PM	45.0	34.3	4.2	16.5	59.5	59.3	-4.0	-4.0
KCYN0048	1/14/21 8:39 AM	44.9	37.3	0.0	17.8	118.6	118.9	-0.8	-0.8
KCYN0051	1/12/21 4:13 PM	54.1	41.6	0.6	3.7	101.1	101.3	-40.6	-37.4
KCYN0054	1/14/21 3:22 PM	57.1	42.9	0.1	-0.1	79.2	78.9	-2.8	-1.9
KCYN0056	1/12/21 4:20 PM	56.3	43.7	0.0	0.0	119.0	119.1	-2.9	-2.9
KCYN0057	1/13/21 2:38 PM	0.0	0.4	20.7	78.9	73.1	72.8	-0.7	-0.6
KCYN0057	1/13/21 2:43 PM	0.0	0.4	20.7	78.9	71.5	71.5	-0.7	-0.7
KCYN0057	1/21/21 10:50 AM	0.0	0.1	20.3	79.6	67.7	67.7	-1.2	-1.2
KCYN0057	1/21/21 10:53 AM	0.0	0.1	20.5	79.4	67.7	66.8	-1.2	-1.1
KCYN0058	1/13/21 9:37 AM	57.3	42.7	0.0	0.0	132.4	132.4	-3.6	-4.0
KCYN0062	1/12/21 8:53 AM	47.7	37.6	0.0	14.7	122.7	122.6	-3.3	-2.9
KCYN0063	1/12/21 8:48 AM	54.1	38.7	0.1	7.1	115.1	115.4	-1.2	-1.3
KCYN0065	1/12/21 3:30 PM	56.8	43.1	0.0	0.1	95.2	102.6	0.02	-0.5
KCYN0066	1/14/21 8:34 AM	48.1	37.5	0.1	14.3	128.9	128.9	-15.5	-15.3
KCYN0070	1/11/21 4:33 PM	48.9	35.9	0.0	15.2	112.3	111.7	-4.2	-3.6
KCYN0071	1/12/21 10:45 AM	49.5	38.7	0.0	11.8	132.2	132.4	-10.0	-10.0
KCYN0072	1/12/21 9:02 AM	54.5	37.3	0.0	8.2	108.9	111.1	-1.7	-2.0
KCYN0074	1/12/21 11:31 AM	54.9	40.6	1.0	3.5	132.1	132.0	-48.6	-48.2
KCYN0075	1/12/21 4:27 PM	55.2	42.7	0.2	1.9	97.1	97.3	-29.1	-31.2
KCYN0076	1/12/21 9:43 AM	52.7	40.5	0.0	6.8	137.7	137.8	-25.7	-25.9
KCYN0078	1/12/21 11:55 AM	48.0	38.5	0.0	13.5	133.7	133.7	-32.1	-30.8
KCYN0082	1/13/21 7:47 AM	43.5	36.3	0.0	20.2	113.1	113.3	-4.9	-3.9
KCYN0083	1/12/21 4:01 PM	55.9	41.4	0.0	2.7	62.3	63.2	-3.8	-3.9
KCYN0084	1/13/21 8:03 AM	46.8	37.2	0.0	16.0	119.8	119.3	-1.4	-1.0
KCYN0086	1/13/21 9:02 AM	57.5	42.4	0.0	0.1	134.6	134.5	-32.4	-32.4
KCYN0087	1/13/21 9:20 AM	43.9	38.4	0.0	17.7	144.4	143.5	-16.1	-14.4
KCYN0087	1/13/21 9:55 AM	CO 5 ppm							
KCYN0088	1/12/21 10:23 AM	51.4	37.7	0.1	10.8	110.9	110.9	-44.8	-45.9

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - January 12, 13, and 14, 2021

Device ID	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.)
KCYN0089	1/11/21 5:02 PM	47.2	37.4	0.1	15.3	142.0	142.0	-32.5	-32.2
KCYN0089	1/11/21 5:11 PM	CO 10 ppm							
KCYN0090	1/12/21 10:18 AM	51.1	37.1	0.1	11.7	100.0	100.0	-24.7	-24.7
KCYN0091	1/11/21 4:49 PM	50.2	38.8	0.0	11.0	134.0	134.0	-15.1	-15.0
KCYN0092	1/12/21 11:23 AM	50.7	38.4	0.2	10.7	132.4	132.4	-39.1	-40.6
KCYN0093	1/12/21 11:36 AM	47.8	37.0	0.0	15.2	126.9	127.0	-5.4	-5.4
KCYN0094	1/12/21 10:02 AM	52.5	38.0	0.0	9.5	122.8	122.7	-9.7	-9.7
KCYN0095	1/12/21 10:10 AM	57.8	41.1	0.0	1.1	125.4	125.5	-46.0	-44.0
KCYN0097	1/11/21 4:40 PM	55.9	38.9	0.2	5.0	120.5	121.3	-3.8	-4.4
KCYN0098	1/12/21 9:55 AM	50.3	38.3	0.0	11.4	132.2	132.2	-3.8	-3.8
KCYN0099	1/11/21 4:26 PM	49.6	37.8	0.2	12.4	132.3	132.3	-4.8	-4.6
KCYN0101	1/12/21 11:07 AM	42.7	33.8	0.0	23.5	91.8	91.3	-1.5	-1.4
KCYN0102	1/12/21 11:01 AM	42.3	35.1	0.0	22.6	88.2	87.7	-1.2	-1.1
KCYN0103	1/12/21 10:50 AM	34.6	32.9	0.0	32.5	112.4	115.3	-11.3	-11.5
KCYN0105	1/14/21 9:39 AM	58.5	41.3	0.1	0.1	103.4	103.3	-52.3	-52.7
KCYN0118	1/13/21 3:18 PM	53.4	41.7	0.0	4.9	119.0	118.9	-45.4	-44.0
KCYN0119	1/13/21 3:36 PM	54.9	41.6	0.0	3.5	129.0	129.0	-4.8	-5.2
KCYN0121	1/13/21 3:08 PM	49.6	39.6	0.7	10.1	116.4	116.4	-48.9	-48.9
KCYN0122	1/13/21 3:31 PM	53.5	41.1	0.7	4.7	106.6	106.0	-46.8	-45.9
KCYN0123	1/13/21 8:25 AM	57.1	42.9	0.0	0.0	68.6	69.1	0.13	0.12
KCYN0124	1/12/21 4:07 PM	45.2	37.2	0.1	17.5	109.5	109.4	-5.0	-4.3
KCYN0125	1/14/21 12:52 PM	58.3	41.4	0.3	0.0	125.7	125.7	-26.3	-26.2
KCYN0126	1/12/21 4:38 PM	57.2	42.8	0.0	0.0	64.0	63.8	0.18	0.19
KCYN0127	1/13/21 8:44 AM	51.6	39.3	0.0	9.1	130.5	130.4	-7.6	-7.6
KCYN0128	1/13/21 8:52 AM	52.9	41.8	0.0	5.3	135.8	135.7	-32.5	-32.5
KCYN0129	1/13/21 10:13 AM	57.7	42.3	0.0	0.0	121.3	121.2	-42.7	-41.9
KCYN0130	1/14/21 9:05 AM	45.6	34.8	0.1	19.5	114.7	114.7	-20.9	-20.9
KCYN0131	1/14/21 9:00 AM	58.2	41.5	0.3	0.0	113.7	113.6	-52.8	-52.7
KCYN0133	1/12/21 11:47 AM	57.4	42.6	0.0	0.0	112.1	126.9	0.95	-6.6
KCYN0134	1/12/21 12:00 PM	47.7	37.7	0.0	14.6	109.5	108.7	-14.3	-13.0
KCYN0135	1/12/21 12:05 PM	46.8	39.5	0.0	13.7	129.1	128.9	-26.7	-24.0
KCYNLR04	1/12/21 3:16 PM	46.3	31.8	2.6	19.3	97.9	98.0	-38.4	-36.8
KCYNLR08	1/12/21 9:25 AM	60.7	39.1	0.2	0.0	72.3	71.3	-40.9	-31.9
KCYNLR11	1/14/21 10:18 AM	59.8	40.0	0.0	0.2	76.1	76.1	-0.2	-0.2

*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, 120, 128 and 135. Wells 56, 75, 76, 87, 89, and 120, are approved to operate at a temperature HOV of 156°F .

As of January 31, 2021, there are 74 vertical wells, 0 horizontal collector, and 3 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 - February 11, 12, 16, and 20, 2021

Device ID	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	2/20/2021 13:10	36.1	33.4	1.2	29.3	97.2	94.3	-46.4	-24.2
KCLC0109	2/16/2021 9:50	49.6	41.0	0.0	9.4	102.0	103.0	-49.8	-50.1
KCLC0110	2/16/2021 9:42	54.3	42.5	0.0	3.2	114.0	114.0	-48.9	-49.0
KCLC0111	2/16/2021 9:34	55.8	44.1	0.0	0.1	98.0	99.0	-46.9	-47.0
KCLC0112	2/16/2021 9:31	49.6	42.0	0.0	8.4	116.0	116.0	-47.1	-46.9
KCLC0139	2/11/2021 15:12	56.0	44.0	0.0	0.0	113.0	113.0	-37.6	-37.6
KCLC0140	2/20/2021 14:43	55.8	42.3	0.0	1.9	99.8	100.7	-1.4	-3.8
KCLC0141	2/11/2021 15:01	54.7	40.5	0.0	4.8	84.4	87.5	-0.5	-1.7
KCLC0142	2/12/2021 12:00	35.1	31.1	0.0	33.8	97.1	97.1	-0.5	-0.4
KCLC0143	2/11/2021 15:37	45.4	37.1	0.0	17.5	98.3	98.6	-0.6	-0.7
KCLC0144	2/20/2021 12:43	57.0	43.0	0.0	0.0	81.6	82.6	-43.4	-43.0
KCLC0145	2/12/2021 13:52	55.9	40.8	1.0	2.3	74.4	75.1	-43.8	-43.3
KCLC0146	2/12/2021 13:56	57.5	42.5	0.0	0.0	78.8	79.0	-43.7	-43.3
KCLC0146	2/12/2021 13:56	57.5	42.5	0.0	0.0	78.8	79.0	-43.7	-43.3
KCLC0147	2/12/2021 14:04	57.4	42.6	0.0	0.0	91.3	91.3	-40.1	-40.1
KCLC0148	2/12/2021 13:48	47.0	37.5	3.3	12.2	58.8	58.8	-43.5	-43.5
KCLC0149	2/12/2021 13:45	55.4	44.6	0.0	0.0	86.5	87.1	-4.1	-10.2
KCLC0151	2/12/2021 14:08	53.0	42.3	0.0	4.7	108.2	108.2	-20.5	-20.4
KCLC0152	2/12/2021 14:13	44.3	36.7	0.0	19.0	106.7	106.4	-9.0	-8.9
KCYN0014	2/16/2021 9:56	43.3	31.8	0.0	24.9	89.0	89.0	-2.7	-2.7
KCYN0027	2/12/2021 11:32	49.7	39.5	0.0	10.8	116.1	115.6	-23.9	-23.9
KCYN0037	2/11/2021 16:32	47.0	34.7	4.5	13.8	54.6	54.5	-2.3	-2.3
KCYN0048	2/16/2021 10:01	45.2	39.2	0.0	15.6	118.0	117.0	-1.0	-1.1
KCYN0051	2/11/2021 15:31	55.4	44.6	0.0	0.0	106.6	106.6	-36.9	-35.2
KCYN0054	2/11/2021 15:03	56.6	43.4	0.0	0.0	72.9	73.0	-4.6	-8.3
KCYN0054	2/11/2021 15:44	55.4	44.6	0.0	0.0	117.7	118.0	-1.2	-1.2
KCYN0056	2/20/2021 15:19	56.8	43.1	0.1	0.0	118.7	118.6	-1.0	-1.0
KCYN0057	2/12/2021 12:53	0.0	0.3	21.3	78.4	58.4	58.5	0.0	0.0
KCYN0057	2/20/2021 15:13	1.5	2.3	21.3	74.9	61.0	60.8	-0.8	-0.7
KCYN0058	2/12/2021 13:05	56.3	43.7	0.0	0.0	133.1	133.2	-3.6	-4.2
KCYN0062	2/12/2021 10:38	50.5	38.5	0.0	11.0	123.6	123.5	-2.9	-2.9
KCYN0063	2/12/2021 10:33	50.0	37.2	0.1	12.7	116.6	116.6	-1.3	-1.3
KCYN0065	2/12/2021 12:05	57.3	42.7	0.0	0.0	91.0	95.0	-0.2	-5.7
KCYN0066	2/16/2021 10:05	49.7	40.4	0.0	9.9	127.0	127.0	-15.1	-15.2
KCYN0070	2/16/2021 8:36	49.4	39.0	0.0	11.6	109.0	110.0	-3.8	-3.8
KCYN0071	2/16/2021 8:10	48.1	40.0	0.0	11.9	123.0	124.0	-10.7	-9.8
KCYN0072	2/12/2021 10:50	51.0	37.3	0.0	11.7	111.9	112.0	-2.4	-2.3
KCYN0074	2/12/2021 11:23	55.1	41.7	0.7	2.5	129.8	129.7	-47.1	-46.5
KCYN0075	2/11/2021 15:51	55.7	44.2	0.1	0.0	124.9	126.1	-29.8	-30.2
KCYN0076	2/20/2021 12:35	53.7	40.9	0.0	5.4	133.6	133.5	-26.1	-26.1
KCYN0078	2/12/2021 11:37	50.2	38.8	0.0	11.0	134.5	134.5	-30.7	-30.7
KCYN0082	2/11/2021 15:18	51.0	39.8	0.0	9.2	113.7	113.6	-3.5	-3.5
KCYN0083	2/11/2021 15:21	54.3	40.8	1.4	3.5	57.7	57.5	-1.9	-1.9
KCYN0084	2/11/2021 15:41	52.4	40.2	0.0	7.4	119.8	119.7	-1.1	-1.1
KCYN0086	2/12/2021 13:33	56.9	42.3	0.2	0.6	135.0	135.1	-29.8	-29.8
KCYN0087	2/20/2021 15:36	47.9	39.4	0.0	12.7	139.9	139.7	-11.5	-11.5
KCYN0088	2/16/2021 9:00	50.1	40.1	0.0	9.8	111.0	112.0	-43.5	-44.1
KCYN0089	2/12/2021 11:06	46.5	36.8	0.5	16.2	142.1	142.1	-33.0	-33.0
KCYN0090	2/16/2021 8:29	49.9	39.8	0.0	10.3	95.0	95.0	-27.0	-27.1
KCYN0091	2/20/2021 15:41	48.3	38.8	0.0	12.9	133.3	134.2	-15.2	-15.3
KCYN0092	2/12/2021 11:27	50.7	39.3	0.0	10.0	132.8	132.5	-38.5	-37.6
KCYN0093	2/12/2021 11:17	48.6	37.4	0.0	14.0	127.2	127.2	-7.1	-7.1
KCYN0094	2/16/2021 8:50	50.0	40.9	0.0	9.1	123.0	124.0	-11.2	-11.4

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - February 11, 12, 16, and 20, 2021

Device ID	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.)
KCYN0095	2/16/2021 8:55	56.3	43.6	0.0	0.1	125.0	126.0	-43.9	-44.4
KCYN0097	2/16/2021 8:32	56.0	43.0	0.0	1.0	119.0	120.0	-6.9	-7.9
KCYN0098	2/16/2021 8:46	48.3	40.8	0.0	10.9	126.0	126.0	-5.4	-5.5
KCYN0099	2/20/2021 15:45	47.8	39.8	0.1	12.3	131.3	132.5	-4.8	-4.8
KCYN0101	2/16/2021 8:23	48.2	37.7	0.0	14.1	56.0	56.0	-1.3	-1.4
KCYN0102	2/16/2021 8:19	45.3	37.4	0.0	17.3	53.0	53.0	-1.0	-1.0
KCYN0103	2/16/2021 8:14	33.4	33.9	0.0	32.7	83.0	83.0	-11.7	-11.1
KCYN0105	2/16/2021 9:46	55.3	44.6	0.0	0.1	63.0	64.0	-49.0	-49.3
KCYN0118	2/16/2021 9:24	55.4	44.5	0.0	0.1	120.0	121.0	-42.7	-42.8
KCYN0119	2/16/2021 9:16	55.5	44.4	0.0	0.1	127.0	127.0	-5.6	-6.0
KCYN0121	2/16/2021 9:28	49.5	40.9	0.7	8.9	115.0	116.0	-45.5	-45.6
KCYN0122	2/16/2021 9:21	54.8	45.1	0.0	0.1	103.0	104.0	-43.0	-42.6
KCYN0123	2/12/2021 12:47	55.4	44.6	0.0	0.0	73.2	73.3	0.3	0.4
KCYN0124	2/11/2021 15:27	52.2	40.4	0.0	7.4	105.0	106.4	-3.7	-5.9
KCYN0125	2/11/2021 15:08	55.8	44.2	0.0	0.0	126.8	126.8	-23.6	-23.5
KCYN0126	2/20/2021 15:05	57.1	42.9	0.0	0.0	63.5	63.4	0.5	0.6
KCYN0127	2/12/2021 12:58	54.8	40.9	0.0	4.3	130.7	131.0	-5.7	-6.3
KCYN0128	2/12/2021 13:36	53.8	41.6	0.0	4.6	136.6	136.5	-30.2	-30.2
KCYN0129	2/20/2021 15:29	57.9	42.0	0.1	0.0	121.9	121.9	-42.1	-43.3
KCYN0130	2/20/2021 12:54	46.7	35.6	0.0	17.7	115.6	115.6	-19.7	-19.7
KCYN0131	2/16/2021 9:38	55.2	44.7	0.0	0.1	111.0	111.0	-48.5	-49.0
KCYN0133	2/12/2021 11:11	56.5	43.5	0.0	0.0	97.6	109.0	0.3	-5.3
KCYN0133	2/20/2021 14:19	54.3	39.5	0.3	5.9	122.4	123.2	-23.0	-26.1
KCYN0134	2/12/2021 11:50	49.5	39.1	0.0	11.4	106.0	106.0	-13.8	-13.8
KCYN0135	2/12/2021 11:54	50.8	41.5	0.0	7.7	129.2	129.2	-24.1	-24.1
KCYNLR04	2/20/2021 14:40	47.6	33.4	1.9	17.1	98.7	98.7	-36.7	-38.9
KCYNLR08	2/12/2021 10:53	59.4	40.6	0.1	-0.1	64.9	64.9	-55.3	-54.7
KCYNLR08	2/20/2021 13:26	59.5	40.5	0.0	0.0	86.3	86.2	-54.1	-53.8
KCYNLR11	2/20/2021 15:56	59.7	40.3	0.1	-0.1	68.0	69.6	-0.4	-0.4

*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, 120, 128 and 135. Wells 56, 75, 76, 87, 89, and 120, are approved to operate at a temperature HOV of 156°F .

As of January 31, 2021, there are 74 vertical wells, 0 horizontal collector, and 3 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 - March 3, 4, 8, 15, 16, and 17, 2021

Device ID	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	3/3/2021 19:02	49.30	37.60	1.40	11.70	77.0	77.0	-6.40	-6.80
KCLC0108	3/8/2021 12:01	51.60	37.70	1.40	9.30	77.0	78.0	-5.90	-8.50
KCLC0108	3/17/2021 8:22	CO was 5 ppm							
KCLC0109	3/8/2021 12:14	47.10	37.80	0.90	14.20	99.0	99.0	-46.80	-47.00
KCLC0110	3/3/2021 18:42	55.20	41.60	0.20	3.00	116.0	116.0	-50.20	-50.00
KCLC0111	3/8/2021 12:43	56.40	43.10	0.40	0.10	100.0	100.0	-44.60	-44.80
KCLC0112	3/8/2021 12:28	50.40	40.70	0.00	8.90	118.0	118.0	-44.80	-44.90
KCLC0139	3/17/2021 9:56	56.00	43.90	0.00	0.10	115.9	115.9	-25.52	-25.52
KCLC0140	3/17/2021 14:46	43.60	38.00	0.00	18.40	106.9	107.0	-3.70	-3.71
KCLC0141	3/16/2021 14:12	39.90	36.40	0.00	23.70	93.5	92.5	-1.52	-1.09
KCLC0142	3/16/2021 13:55	13.00	25.50	0.10	61.40	92.7	92.9	-0.35	-0.32
KCLC0143	3/17/2021 9:10	19.90	27.90	0.00	52.20	101.7	101.2	-0.95	-0.83
KCLC0144	3/3/2021 19:24	56.10	43.80	0.00	0.10	86.0	86.0	-44.00	-44.20
KCLC0145	3/17/2021 13:24	53.00	40.70	1.00	5.30	74.7	74.7	-44.44	-44.75
KCLC0146	3/17/2021 13:05	57.90	42.10	0.00	0.00	77.3	77.2	-44.87	-44.78
KCLC0147	3/17/2021 13:55	57.10	41.90	0.00	1.00	92.5	92.5	-41.25	-41.24
KCLC0148	3/17/2021 12:45	45.20	36.20	3.80	14.80	58.4	58.4	-45.16	-43.76
KCLC0149	3/17/2021 12:23	49.30	40.30	0.10	10.30	97.2	97.2	-10.61	-10.54
KCLC0151	3/17/2021 13:39	51.00	41.40	0.00	7.60	107.0	107.0	-20.77	-20.75
KCLC0152	3/17/2021 14:05	45.20	37.80	0.00	17.00	105.2	105.2	-6.10	-6.08
KCYN0014	3/3/2021 19:13	43.30	30.40	0.70	25.60	93.0	93.0	-2.50	-2.50
KCYN0014	3/8/2021 11:51	44.40	30.30	0.30	25.00	96.0	97.0	-2.40	-2.60
KCYN0027	3/16/2021 13:25	49.30	38.80	0.10	11.80	112.8	113.9	-24.62	-25.16
KCYN0037	3/3/2021 11:44	49.80	38.40	2.80	9.00	50.0	50.0	-24.80	-25.90
KCYN0037	3/3/2021 11:44	49.80	38.40	2.80	9.00	50.0	50.0	-24.80	-27.20
KCYN0037	3/4/2021 14:11	54.50	41.90	1.20	2.40	55.0	55.0	-39.30	-39.00
KCYN0037	3/4/2021 14:14	55.80	42.20	0.90	1.10	66.0	66.0	-40.20	-40.40
KCYN0048	3/8/2021 13:06	44.20	38.00	0.00	17.80	125.0	125.0	-1.00	-1.00
KCYN0051	3/16/2021 15:14	54.80	43.60	0.30	1.30	104.4	104.5	-31.44	-32.88
KCYN0054	3/16/2021 14:21	50.10	40.40	0.10	9.40	73.6	73.6	-6.03	-6.02
KCYN0056	3/17/2021 9:44	55.60	44.40	0.00	0.00	118.8	119.1	-26.18	-26.24
KCYN0057	3/3/2021 12:24	55.40	44.30	0.20	0.10	139.0	139.0	-23.50	-23.50
KCYN0057	3/3/2021 12:26	Corrective Action Completed (PCAC_STATIC_PRESSURE)-Installed new jumper							
KCYN0058	3/17/2021 11:48	34.80	38.20	0.00	27.00	132.9	132.7	-9.49	-8.85
KCYN0062	3/15/2021 13:29	51.20	39.80	0.00	9.00	121.7	121.7	-2.51	-2.50
KCYN0063	3/15/2021 13:22	50.50	38.70	0.00	10.80	114.4	114.2	-0.92	-0.98
KCYN0065	3/17/2021 10:06	40.50	32.50	4.40	22.60	97.9	97.2	-2.46	-1.96
KCYN0066	3/3/2021 18:19	48.10	39.30	0.00	12.60	129.0	129.0	-38.60	-38.70
KCYN0066	3/3/2021 18:21	48.10	39.30	0.00	12.60	129.0	129.0	-38.60	-41.50
KCYN0070	3/15/2021 14:13	51.70	37.80	0.10	10.40	107.5	107.4	-2.39	-2.39
KCYN0071	3/16/2021 9:11	49.90	39.50	0.00	10.60	131.0	131.1	-8.59	-8.59
KCYN0072	3/15/2021 13:38	51.50	37.30	0.00	11.20	111.1	109.9	-1.83	-1.83
KCYN0072	3/16/2021 7:53	52.30	37.70	0.00	10.00	108.0	109.3	-2.10	-2.31
KCYN0074	3/16/2021 9:53	57.00	43.00	0.00	0.00	131.8	131.8	-44.07	-44.70
KCYN0075	3/3/2021 12:06	54.30	45.50	0.10	0.10	112.0	112.0	-25.50	-25.20
KCYN0076	3/8/2021 13:47	55.20	42.10	0.00	2.70	138.0	138.0	-17.10	-17.30
KCYN0078	3/8/2021 14:11	56.80	43.10	0.00	0.10	132.0	133.0	-13.50	-14.80
KCYN0082	3/16/2021 14:28	37.00	34.60	0.00	28.40	112.8	112.6	-3.83	-3.21
KCYN0083	3/16/2021 14:58	34.00	40.30	0.40	25.30	62.2	62.2	-40.34	-39.83
KCYN0084	3/17/2021 9:29	31.30	33.00	0.00	35.70	118.3	114.9	-1.15	-0.56
KCYN0086	3/17/2021 11:05	56.40	42.60	0.00	1.00	134.7	134.7	-29.37	-29.32
KCYN0087	3/17/2021 11:17	37.40	36.80	0.00	25.80	142.4	142.3	-12.35	-10.08
KCYN0087	3/17/2021 11:32	CO was5 ppm							
KCYN0088	3/16/2021 8:33	52.00	38.90	0.00	9.10	110.2	110.2	-40.82	-43.03

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - March 3, 4, 8, 15, 16, and 17, 2021

Device ID	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.)
KCYN0089	3/16/2021 13:05	47.50	37.90	0.60	14.00	142.1	142.1	-26.98	-26.99
KCYN0089	3/17/2021 8:06	47.30	38.00	0.60	14.10	142.2	142.2	-27.40	-27.00
KCYN0089	3/17/2021 8:23	CO was5 ppm							
KCYN0090	3/16/2021 9:21	45.70	34.60	2.20	17.50	90.7	90.8	-24.24	-24.23
KCYN0091	3/15/2021 14:34	48.80	39.40	0.00	11.80	133.2	133.2	-13.87	-13.85
KCYN0091	3/16/2021 8:03	49.30	39.90	0.00	10.80	134.1	134.1	-16.32	-16.32
KCYN0092	3/16/2021 9:43	53.60	40.00	0.00	6.40	130.2	130.6	-36.66	-37.41
KCYN0093	3/16/2021 10:01	46.20	37.30	0.00	16.50	125.9	125.4	-7.13	-6.61
KCYN0094	3/17/2021 14:22	43.80	35.30	1.20	19.70	119.3	118.2	-9.92	-8.33
KCYN0095	3/16/2021 8:24	57.30	41.80	0.20	0.70	124.8	124.8	-41.43	-41.61
KCYN0097	3/15/2021 14:21	50.90	39.00	0.20	9.90	118.4	118.4	-8.45	-8.45
KCYN0098	3/16/2021 8:13	49.60	39.10	0.00	11.30	131.6	131.7	-5.11	-5.10
KCYN0099	3/15/2021 13:56	45.20	38.00	0.00	16.80	131.6	131.8	-7.86	-7.90
KCYN0101	3/16/2021 8:43	55.30	38.30	0.00	6.40	71.7	73.0	-0.64	-0.78
KCYN0102	3/16/2021 8:51	37.80	34.00	0.00	28.20	88.6	86.9	-1.59	-1.31
KCYN0103	3/16/2021 9:03	36.30	33.60	0.00	30.10	109.9	109.0	-8.10	-7.74
KCYN0105	3/3/2021 18:52	56.40	43.10	0.40	0.10	112.0	108.0	-47.00	-47.00
KCYN0105	3/8/2021 12:21	56.70	43.00	0.20	0.10	115.0	115.0	-46.40	-46.40
KCYN0118	3/8/2021 13:28	56.50	42.90	0.30	0.30	120.0	120.0	-39.50	-39.50
KCYN0119	3/8/2021 13:42	56.30	43.60	0.00	0.10	130.0	131.0	-4.60	-5.10
KCYN0121	3/8/2021 13:13	53.40	41.20	0.50	4.90	119.0	119.0	-43.60	-43.30
KCYN0122	3/8/2021 13:36	55.90	44.00	0.00	0.10	109.0	107.0	-40.90	-40.20
KCYN0123	3/3/2021 12:40	54.30	45.50	0.10	0.10	129.0	129.0	-13.00	-13.00
KCYN0123	3/3/2021 12:42	Corrective Action Completed (PCAC_STATIC_PRESSURE)-Installed new jumper							
KCYN0124	3/16/2021 15:09	32.30	33.00	0.10	34.60	108.9	108.8	-6.53	-5.39
KCYN0125	3/17/2021 10:23	56.70	43.20	0.10	0.00	125.9	125.9	-18.48	-18.47
KCYN0126	3/3/2021 11:50	54.50	45.30	0.10	0.10	126.0	126.0	-14.50	-14.50
KCYN0126	3/8/2021 11:52	Corrective Action Completed (PCAC_STATIC_PRESSURE)-Installed new jumper							
KCYN0127	3/17/2021 10:40	34.30	35.70	0.00	30.00	129.40	128.70	-8.96	-8.33
KCYN0127	3/17/2021 10:47	34.40	35.50	0.00	30.10	129.1	128.4	-9.28	-8.40
KCYN0128	3/17/2021 10:55	47.30	41.00	0.00	11.70	135.8	135.8	-30.21	-29.79
KCYN0129	3/17/2021 13:32	56.20	42.70	0.00	1.10	121.2	121.1	-40.56	-41.03
KCYN0130	3/8/2021 12:54	46.80	35.80	0.00	17.40	117.0	117.0	-18.90	-18.70
KCYN0131	3/8/2021 12:48	51.90	38.90	2.10	7.10	110.0	111.0	-45.70	-46.00
KCYN0133	3/8/2021 13:54	56.70	42.20	0.00	1.10	115.0	118.0	-11.80	-14.00
KCYN0134	3/16/2021 13:19	55.20	40.50	0.10	4.20	102.9	104.5	-12.44	-14.65
KCYN0135	3/16/2021 13:31	53.60	43.00	0.00	3.40	129.1	129.1	-18.96	-19.31
KCYNLR04	3/16/2021 13:43	49.30	34.80	1.90	14.00	97.8	98.0	-33.06	-32.28
KCYNLR08	3/15/2021 13:14	60.00	39.50	0.50	0.00	81.7	81.5	-54.17	-53.65
KCYNLR11	3/3/2021 19:08	58.40	41.20	0.20	0.20	75.0	75.0	-0.10	-0.10
KCYNLR11	3/8/2021 11:57	58.40	39.50	1.00	1.10	74.0	74.0	-0.20	-0.40

*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, 120, 128 and 135. Wells 56, 75, 76, 87, 89, and 120, are approved to operate at a temperature HOV of 156°F .

As of March 31, 2021, there are 73 vertical wells, 0 horizontal collector, and 3 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 - April 12, 13, 14, and 16, 2021

Device ID	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	4/13/2021 9:34	37.3	30.5	3.6	28.60	87.00	84.00	-14.7	-11.5
KCLC0109	4/13/2021 9:49	50.0	38.1	0.1	11.80	102.00	102.00	-51.6	-52.2
KCLC0110	4/13/2021 9:56	55.5	40.8	0.0	3.70	116.00	116.00	-50.9	-51.2
KCLC0111	4/13/2021 10:17	56.5	43.0	0.4	0.10	89.00	89.00	-50.0	-50.0
KCLC0112	4/13/2021 10:08	50.1	40.2	0.0	9.70	118.00	118.00	-49.3	-49.4
KCLC0139	4/12/2021 10:31	55.0	44.9	0.0	0.10	117.00	117.00	-21.5	-21.5
KCLC0140	4/12/2021 10:16	39.6	36.7	0.2	23.50	108.00	108.00	-3.7	-1.5
KCLC0141	4/16/2021 13:14	37.2	34.4	0.0	28.40	75.00	86.00	-1.6	-0.8
KCLC0142	4/12/2021 14:27	13.2	23.8	0.0	63.00	95.00	95.00	-0.1	-0.1
KCLC0143	4/12/2021 9:41	20.7	26.8	0.1	52.40	109.00	109.00	-0.7	-0.3
KCLC0144	4/16/2021 13:58	57.2	42.7	0.0	0.10	108.00	108.00	-45.9	-46.2
KCLC0145	4/13/2021 13:22	57.2	42.7	0.0	0.10	87.00	87.00	-45.3	-44.9
KCLC0146	4/13/2021 13:20	57.1	42.8	0.0	0.10	78.00	78.00	-45.4	-45.7
KCLC0147	4/13/2021 13:49	57.1	42.6	0.1	0.20	94.00	94.00	-42.2	-41.7
KCLC0148	4/13/2021 13:28	50.7	43.7	1.5	4.10	66.00	66.00	-45.7	-45.4
KCLC0149	4/14/2021 12:47	47.0	41.3	0.0	11.70	100.00	100.00	-11.2	-11.2
KCLC0151	4/14/2021 10:47	52.8	42.9	0.0	4.30	110.00	110.00	-21.3	-21.4
KCLC0152	4/14/2021 10:42	43.4	38.6	0.0	18.00	105.00	104.00	-6.4	-6.2
KCYN0014	4/13/2021 9:30	43.8	29.3	0.1	26.80	94.00	95.00	-3.1	-3.1
KCYN0027	4/16/2021 13:25	48.1	39.2	0.0	12.70	115.00	115.00	-27.2	-27.2
KCYN0048	4/13/2021 10:39	43.9	37.5	0.0	18.60	118.00	118.00	-1.1	-1.1
KCYN0051	4/16/2021 13:04	50.4	43.6	0.2	5.80	106.00	106.00	-38.5	-38.2
KCYN0054	4/12/2021 10:04	47.5	40.6	0.0	11.90	79.00	80.00	-9.8	-9.7
KCYN0056	4/12/2021 14:13	53.1	45.3	0.1	1.50	123.00	123.00	-28.9	-28.9
KCYN0057	4/12/2021 13:36	41.2	38.9	0.1	19.80	138.00	138.00	-23.2	-16.9
KCYN0058	4/12/2021 13:54	39.0	38.7	0.0	22.30	109.00	106.00	-2.1	-2.0
KCYN0062	4/14/2021 9:31	50.5	39.5	0.1	9.90	121.00	121.00	-2.8	-3.4
KCYN0063	4/14/2021 9:27	49.8	39.2	0.0	11.00	114.00	114.00	-1.2	-1.3
KCYN0065	4/12/2021 10:11	45.1	36.5	2.9	15.50	101.00	101.00	-1.6	-0.5
KCYN0066	4/13/2021 10:35	37.0	33.9	0.0	29.10	128.00	127.00	-44.7	-32.8
KCYN0070	4/14/2021 13:01	53.4	38.7	0.0	7.90	109.00	109.00	-2.5	-3.0
KCYN0071	4/14/2021 14:42	49.7	39.9	0.0	10.40	132.00	132.00	-8.4	-8.7
KCYN0072	4/14/2021 9:39	47.2	36.8	0.0	16.00	115.00	115.00	-2.7	-2.6
KCYN0074	4/16/2021 13:40	56.1	43.8	0.0	0.10	129.00	129.00	-45.5	-45.9
KCYN0075	4/16/2021 11:24	56.0	43.7	0.1	0.20	135.00	135.00	-34.7	-35.1
KCYN0076	4/13/2021 11:06	53.0	41.4	0.0	5.60	137.00	137.00	-27.3	-27.3
KCYN0078	4/13/2021 14:02	51.3	39.4	0.8	8.50	135.00	135.00	-23.4	-23.3
KCYN0082	4/12/2021 9:59	36.5	34.0	0.0	29.50	111.00	112.00	-3.6	-2.3
KCYN0083	4/12/2021 9:54	26.4	35.1	0.1	38.40	70.00	70.00	-41.5	-41.6
KCYN0084	4/12/2021 9:44	39.5	35.6	0.0	24.90	119.00	118.00	-0.4	-0.2
KCYN0086	4/13/2021 12:55	56.7	43.2	0.0	0.10	133.00	133.00	-33.0	-33.0
KCYN0087	4/16/2021 14:05	43.9	39.4	0.0	16.70	138.00	138.00	-11.0	-12.7
KCYN0088	4/14/2021 14:12	50.6	39.2	0.0	10.20	113.00	113.00	-42.8	-41.5
KCYN0089	4/14/2021 13:24	46.5	38.7	0.3	14.50	137.00	137.00	-27.5	-27.5
KCYN0090	4/14/2021 14:55	49.1	37.5	0.7	12.70	96.00	95.00	-24.0	-24.0
KCYN0091	4/14/2021 13:19	49.3	40.3	0.0	10.40	135.00	135.00	-16.0	-15.9
KCYN0092	4/16/2021 13:36	53.1	40.0	0.0	6.90	128.00	128.00	-37.9	-37.5
KCYN0093	4/16/2021 13:44	51.3	39.9	0.0	8.80	129.00	129.00	-3.5	-3.5
KCYN0094	4/14/2021 13:49	48.0	37.4	0.8	13.80	116.00	116.00	-7.6	-7.6
KCYN0095	4/14/2021 13:52	57.6	42.1	0.1	0.20	126.00	126.00	-40.9	-42.0
KCYN0097	4/14/2021 13:10	52.0	39.7	0.2	8.10	122.00	123.00	-9.1	-9.1
KCYN0098	4/14/2021 13:42	51.1	39.7	0.0	9.20	128.00	128.00	-4.1	-4.1
KCYN0099	4/14/2021 12:58	44.4	38.2	0.0	17.40	132.00	131.00	-8.1	-7.1
KCYN0101	4/14/2021 14:22	47.0	36.6	0.0	16.40	95.00	95.00	-1.1	-1.1

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - April 12, 13, 14, and 16, 2021

Device ID	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.)
KCYN0102	4/14/2021 15:06	40.0	34.4	0.0	25.60	105.00	105.00	-1.1	-1.0
KCYN0103	4/14/2021 14:17	37.6	34.8	0.0	27.60	120.00	119.00	-6.9	-6.4
KCYN0105	4/13/2021 10:02	57.3	42.3	0.3	0.10	111.00	111.00	-48.3	-47.8
KCYN0118	4/13/2021 10:50	57.0	42.9	0.0	0.10	119.00	121.00	-44.4	-44.5
KCYN0119	4/13/2021 10:59	57.0	42.6	0.0	0.40	128.00	128.00	-6.8	-7.6
KCYN0121	4/13/2021 10:45	53.6	41.5	0.2	4.70	120.00	120.00	-48.1	-47.9
KCYN0122	4/13/2021 10:55	57.0	42.9	0.0	0.10	110.00	110.00	-44.8	-44.5
KCYN0123	4/12/2021 13:50	44.3	43.8	0.0	11.90	128.00	128.00	-13.2	-10.4
KCYN0124	4/12/2021 9:49	30.8	32.7	0.0	36.50	110.00	109.00	-5.1	-3.1
KCYN0125	4/12/2021 10:28	55.8	44.1	0.0	0.10	129.00	129.00	-19.5	-19.8
KCYN0126	4/12/2021 10:35	49.5	43.0	0.0	7.50	123.00	123.00	-14.7	-14.7
KCYN0127	4/12/2021 13:41	36.0	35.5	0.0	28.50	129.00	127.00	-7.9	-5.4
KCYN0128	4/13/2021 13:00	46.6	40.2	0.0	13.20	139.00	139.00	-33.1	-33.1
KCYN0129	4/13/2021 13:08	56.3	43.6	0.0	0.10	122.00	122.00	-41.1	-41.2
KCYN0130	4/13/2021 10:26	45.4	35.4	0.0	19.20	114.00	114.00	-20.1	-20.2
KCYN0131	4/13/2021 10:21	54.5	41.6	0.8	3.10	111.00	111.00	-50.4	-49.8
KCYN0133	4/13/2021 13:58	50.2	39.7	0.1	10.00	126.00	126.00	-27.9	-27.9
KCYN0134	4/13/2021 14:06	55.0	41.1	0.0	3.90	108.00	108.00	-14.7	-14.7
KCYN0135	4/13/2021 14:13	52.7	43.5	0.0	3.80	129.00	129.00	-21.0	-21.1
KCYNLR04	4/16/2021 13:19	48.0	34.2	2.0	15.80	98.00	98.00	-38.8	-36.6
KCYNLR08	4/14/2021 9:53	58.1	41.2	0.5	0.20	80.00	80.00	-54.5	-54.2
KCYNLR11	4/14/2021 10:10	58.5	41.0	0.4	0.10	75.00	75.00	-0.1	-0.2

*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, 120, 128 and 135. Wells 56, 75, 76, 87, 89, and 120, are approved to operate at a temperature HOV of 156°F .

As of April 30, 2021, there are 73 vertical wells, 0 horizontal collector, and 3 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 - May 3, 5, 6, and 7, 2021

Device ID	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	5/5/2021 9:18	38.3	30.8	4.2	26.7	94.0	94.0	-10.6	-10.7
KCLC0109	5/5/2021 9:41	48.6	38.0	0.1	13.3	105.0	105.0	-51.1	-51.0
KCLC0110	5/5/2021 9:45	55.0	40.9	0.1	4.0	117.0	117.0	-50.1	-50.3
KCLC0111	5/5/2021 10:14	56.5	42.9	0.4	0.2	101.0	101.0	-49.0	-49.0
KCLC0112	5/5/2021 10:09	49.8	40.4	0.0	9.8	119.0	119.0	-48.5	-48.5
KCLC0139	5/3/2021 11:59	54.3	45.5	0.0	0.2	120.0	120.0	-22.6	-22.5
KCLC0140	5/3/2021 11:54	51.4	42.7	0.0	5.9	109.0	109.0	-1.3	-1.2
KCLC0141	5/3/2021 13:09	44.4	37.4	0.0	18.2	93.0	93.0	-0.6	-0.5
KCLC0142	5/3/2021 13:13	22.7	26.3	0.0	51.0	100.0	100.0	-0.1	-0.1
KCLC0143	5/3/2021 12:41	39.8	32.3	0.0	27.9	88.0	88.0	-0.1	-0.2
KCLC0144	5/5/2021 13:56	56.9	42.9	0.1	0.1	98.0	98.0	-44.8	-44.7
KCLC0145	5/3/2021 14:37	55.7	44.1	0.1	0.1	95.0	95.0	-44.8	-45.0
KCLC0146	5/3/2021 14:34	56.3	43.6	0.0	0.1	89.0	89.0	-45.3	-45.4
KCLC0147	5/3/2021 14:25	56.0	42.8	0.4	0.8	98.0	98.0	-42.3	-42.4
KCLC0148	5/3/2021 14:41	50.4	41.0	1.5	7.1	86.0	85.0	-45.1	-45.3
KCLC0149	5/3/2021 14:44	45.4	40.8	0.0	13.8	103.0	103.0	-10.7	-10.7
KCLC0151	5/3/2021 14:20	52.2	42.7	0.0	5.1	111.0	111.0	-20.8	-20.7
KCLC0152	5/3/2021 14:16	44.0	38.4	0.0	17.6	108.0	109.0	-5.0	-5.0
KCYN0014	5/5/2021 9:35	42.4	29.0	0.6	28.0	99.0	99.0	-2.7	-2.7
KCYN0027	5/6/2021 12:20	48.7	39.7	0.0	11.6	117.0	117.0	-28.8	-26.5
KCYN0048	5/5/2021 10:38	44.2	38.0	0.0	17.8	122.0	122.0	-1.1	-1.1
KCYN0051	5/3/2021 12:33	51.2	44.2	0.3	4.3	109.0	109.0	-39.2	-38.8
KCYN0054	5/3/2021 11:23	51.4	41.4	0.1	7.1	82.0	82.0	-17.0	-17.1
KCYN0056	5/3/2021 12:29	53.0	44.5	0.0	2.5	125.0	124.0	-28.7	-28.8
KCYN0057	5/3/2021 12:18	47.1	40.7	0.0	12.2	139.0	139.0	-12.8	-12.9
KCYN0058	5/6/2021 12:39	50.3	41.0	0.3	8.4	108.0	109.0	-2.2	-2.2
KCYN0062	5/6/2021 11:31	44.3	37.5	0.0	18.2	124.0	124.0	-7.5	-3.8
KCYN0063	5/6/2021 11:27	43.9	37.8	0.1	18.2	117.0	117.0	-1.7	-1.6
KCYN0065	5/3/2021 13:05	55.7	43.9	0.3	0.1	103.0	103.0	-0.3	-0.3
KCYN0066	5/5/2021 10:31	49.7	37.8	0.0	12.5	127.0	126.0	-14.2	-14.2
KCYN0070	5/6/2021 11:48	50.5	37.9	0.1	11.5	111.0	112.0	-6.3	-3.5
KCYN0071	5/5/2021 14:54	49.5	39.3	0.1	11.1	131.0	131.0	-8.6	-8.7
KCYN0072	5/6/2021 11:34	45.1	36.1	0.0	18.8	113.0	114.0	-2.7	-2.7
KCYN0074	5/5/2021 14:25	56.4	43.5	0.0	0.1	130.0	130.0	-45.4	-45.8
KCYN0075	5/3/2021 12:09	54.6	44.8	0.5	0.1	120.0	120.0	-26.9	-26.4
KCYN0076	5/5/2021 11:33	50.2	40.4	0.7	8.7	138.0	138.0	-26.4	-26.3
KCYN0078	5/3/2021 15:12	51.5	40.5	0.4	7.6	137.0	137.0	-22.7	-22.7
KCYN0082	5/3/2021 11:28	49.1	37.5	0.0	13.4	111.0	111.0	-1.0	-1.1
KCYN0082	5/3/2021 11:33	29.2	34.6	0.3	35.9	78.0	79.0	-40.2	-42.0
KCYN0083	5/6/2021 12:29	29.3	35.2	0.2	35.3	74.0	74.0	-42.2	-42.8
KCYN0084	5/6/2021 13:05	50.9	39.1	0.1	9.9	109.0	109.0	-0.3	-0.3
KCYN0086	5/6/2021 13:00	56.2	43.7	0.0	0.1	135.0	136.0	-31.8	-31.8
KCYN0087	5/5/2021 14:04	CO was 0 ppm							
KCYN0087	5/5/2021 14:07	40.5	37.7	0.0	21.8	143.0	142.0	-14.10	-13.30
KCYN0088	5/5/2021 15:00	50.5	37.9	0.0	11.6	112.0	112.0	-41.00	-43.00
KCYN0089	5/6/2021 12:04	46.0	38.6	0.4	15.0	137.0	138.0	-27.30	-27.00
KCYN0090	5/5/2021 15:05	50.5	38.4	0.0	11.1	106.0	107.0	-24.60	-24.60
KCYN0091	5/6/2021 11:59	49.0	40.4	0.0	10.6	135.0	135.0	-16.40	-16.30
KCYN0092	5/5/2021 14:20	53.7	39.2	0.1	7.0	120.0	123.0	-36.70	-37.10
KCYN0093	5/5/2021 14:30	50.4	39.2	0.0	10.4	126.0	126.0	-3.80	-3.70
KCYN0094	5/5/2021 15:25	48.5	37.9	0.5	13.1	120.0	120.0	-7.50	-7.50
KCYN0095	5/5/2021 15:20	58.0	41.6	0.2	0.2	128.0	127.0	-41.50	-41.30
KCYN0097	5/6/2021 11:54	51.6	39.4	0.2	8.8	120.0	121.0	-13.10	-9.20
KCYN0098	5/7/2021 7:52	51.2	40.0	0.1	8.7	128.0	128.0	-4.90	-4.90

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - May 3, 5, 6, and 7, 2021

Device ID	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.)
KCYN0099	5/6/2021 11:43	45.6	38.4	0.0	16.0	132.0	133.0	-9.50	-6.60
KCYN0101	5/5/2021 14:44	44.7	35.3	0.1	19.9	102.0	102.0	-1.40	-1.40
KCYN0102	5/5/2021 15:12	43.4	35.3	0.0	21.3	108.0	108.0	-0.90	-0.90
KCYN0103	5/5/2021 14:50	41.5	35.3	0.0	23.2	119.0	118.0	-4.50	-4.60
KCYN0105	5/5/2021 10:04	56.7	42.8	0.4	0.1	112.0	112.0	-48.30	-48.20
KCYN0118	5/5/2021 11:08	56.6	43.1	0.0	0.3	123.0	123.0	-42.80	-43.50
KCYN0119	5/5/2021 11:27	53.3	41.4	0.0	5.3	128.0	129.0	-9.00	-8.90
KCYN0121	5/5/2021 11:04	55.1	41.7	0.1	3.1	122.0	122.0	-46.80	-47.00
KCYN0122	5/5/2021 11:13	57.3	42.6	0.0	0.1	111.0	111.0	-43.40	-43.40
KCYN0123	5/3/2021 12:14	47.3	43.3	0.0	9.4	128.0	128.0	-9.20	-9.10
KCYN0124	5/3/2021 12:37	47.4	38.1	0.0	14.5	109.0	109.0	-0.50	-1.10
KCYN0125	5/3/2021 11:51	55.2	44.1	0.0	0.7	129.0	129.0	-20.00	-20.00
KCYN0126	5/3/2021 12:03	50.3	43.2	0.0	6.5	125.0	125.0	-15.00	-15.00
KCYN0127	5/3/2021 12:23	44.6	39.2	0.0	16.2	124.0	125.0	-3.40	-3.70
KCYN0128	5/6/2021 12:48	48.3	41.2	0.1	10.4	137.0	137.0	-32.30	-32.50
KCYN0129	5/3/2021 14:11	56.0	43.9	0.0	0.1	125.0	125.0	-41.30	-41.50
KCYN0130	5/5/2021 10:26	45.5	35.7	0.2	18.6	115.0	115.0	-20.20	-20.30
KCYN0131	5/5/2021 10:18	56.9	42.4	0.6	0.1	116.0	116.0	-49.20	-49.80
KCYN0133	5/3/2021 15:08	48.6	40.0	0.1	11.3	128.0	128.0	-24.30	-24.30
KCYN0134	5/3/2021 15:17	53.5	41.2	0.0	5.3	106.0	107.0	-14.10	-14.10
KCYN0135	5/3/2021 15:24	52.0	43.3	0.0	4.7	132.0	132.0	-20.30	-20.40
KCYNLR04	5/5/2021 14:14	46.5	34.0	2.3	17.2	100.0	100.0	-36.00	-38.50
KCYNLR08	5/6/2021 11:13	58.5	40.8	0.6	0.1	103.0	103.0	-54.10	-54.10
KCYNLR11	5/5/2021 9:14	59.2	40.1	0.6	0.1	0.0	86.0	-0.20	-0.40

*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 May 31, 2021, there are 73 vertical wells, 0 horizontal collector, and 3 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 - June 4, 5, 8, and 9, 2021

Device ID	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	6/5/2021 10:43	33.8	31.5	1.1	33.6	95.0	95.0	-23.1	-23.3
KCLC0109	6/5/2021 11:00	44.7	36.0	1.9	17.4	106.0	105.0	-46.4	-46.1
KCLC0110	6/5/2021 11:09	57.0	42.2	0.1	0.7	118.0	118.0	-45.2	-45.2
KCLC0111	6/5/2021 11:32	56.1	42.7	0.7	0.5	99.0	102.0	-43.6	-43.4
KCLC0112	6/5/2021 11:25	47.3	39.6	0.5	12.6	122.0	122.0	-44.1	-44.3
KCLC0139	6/8/2021 13:32	55.0	44.5	0.4	0.1	120.0	119.0	-20.2	-20.1
KCLC0140	6/8/2021 13:26	52.3	43.1	0.0	4.6	98.0	102.0	-2.7	-3.4
KCLC0141	6/8/2021 11:14	39.6	35.7	0.4	24.3	90.0	91.0	-0.8	-0.8
KCLC0142	6/8/2021 10:00	8.3	21.7	0.6	69.4	105.0	105.0	-1.0	-0.5
KCLC0143	6/8/2021 15:26	19.4	26.3	0.0	54.3	110.0	107.0	-3.5	-1.2
KCLC0144	6/5/2021 14:22	57.2	42.5	0.2	0.1	94.0	95.0	-30.5	-40.5
KCLC0145	6/5/2021 14:48	57.1	42.4	0.3	0.2	104.0	104.0	-41.3	-41.2
KCLC0146	6/5/2021 14:46	57.4	42.5	0.0	0.1	92.0	92.0	-41.9	-41.6
KCLC0147	6/5/2021 14:43	57.2	42.7	0.0	0.1	100.0	100.0	-38.6	-38.6
KCLC0148	6/5/2021 14:50	54.6	43.1	0.0	2.3	90.0	90.0	-41.7	-41.4
KCLC0149	6/5/2021 14:57	46.8	40.4	0.0	12.8	112.0	112.0	-10.3	-10.3
KCLC0151	6/5/2021 14:35	53.8	42.7	0.0	3.5	111.0	111.0	-18.1	-18.3
KCLC0152	6/5/2021 14:32	51.3	40.5	0.0	8.2	110.0	109.0	-4.6	-5.0
KCYN0014	6/5/2021 10:48	45.6	31.0	0.4	23.0	89.0	89.0	-1.6	-1.6
KCYN0027	6/4/2021 15:00	51.4	39.4	0.0	9.2	118.0	117.0	-23.2	-26.7
KCYN0048	6/5/2021 11:53	44.6	38.3	0.0	17.1	120.0	120.0	-0.9	-0.9
KCYN0051	6/9/2021 12:55	48.1	39.6	1.5	10.8	111.0	111.0	-30.6	-31.4
KCYN0054	6/8/2021 11:23	55.5	42.0	0.8	1.7	86.0	86.0	-7.9	-20.7
KCYN0056	6/8/2021 14:22	51.1	43.1	0.5	5.3	123.0	123.0	-23.7	-23.8
KCYN0057	6/9/2021 13:00	47.0	40.2	0.2	12.6	138.0	131.0	-12.3	-12.3
KCYN0058	6/8/2021 13:59	50.4	41.5	0.1	8.0	122.0	122.0	-2.0	-2.4
KCYN0058	6/8/2021 14:16	47.9	40.8	0.0	11.3	138.0	138.0	-11.9	-11.8
KCYN0062	6/4/2021 9:52	47.0	38.4	0.0	14.6	123.0	125.0	-2.9	-6.1
KCYN0063	6/4/2021 9:46	51.1	39.9	0.0	9.0	117.0	117.0	-0.9	-1.3
KCYN0065	6/8/2021 15:39	41.6	33.4	4.5	20.5	80.0	80.0	-0.1	-0.3
KCYN0066	6/5/2021 11:49	45.3	34.9	0.4	19.4	127.0	127.0	-13.0	-13.0
KCYN0070	6/4/2021 11:58	47.9	36.3	1.0	14.8	113.0	113.0	-4.3	-5.0
KCYN0071	6/4/2021 15:58	49.2	39.6	0.0	11.2	130.0	130.0	-7.6	-7.6
KCYN0072	6/4/2021 9:57	45.6	36.0	0.0	18.4	117.0	117.0	-2.3	-2.6
KCYN0074	6/4/2021 15:07	54.7	41.4	1.1	2.8	126.0	126.0	-39.2	-38.3
KCYN0074	6/4/2021 15:25	49.1	40.6	0.0	10.3	115.0	115.0	-21.6	-21.3
KCYN0075	6/8/2021 13:50	54.5	43.7	1.7	0.1	122.0	120.0	-25.2	-25.5
KCYN0076	6/5/2021 12:24	52.4	41.6	0.1	5.9	138.0	139.0	-23.6	-23.6
KCYN0078	6/4/2021 14:49	54.0	40.7	0.0	5.3	137.0	137.0	-20.7	-22.0
KCYN0078	6/4/2021 14:51	46.3	36.7	2.5	14.5	132.0	132.0	-21.5	-21.4
KCYN0082	6/8/2021 14:43	32.0	32.8	0.2	35.0	112.0	113.0	-7.2	-4.4
KCYN0083	6/8/2021 14:47	23.9	29.8	3.7	42.6	74.0	75.0	-36.6	-37.4
KCYN0084	6/8/2021 15:30	46.7	39.0	0.1	14.2	117.0	117.0	-0.2	-0.2
KCYN0086	6/5/2021 15:06	56.5	43.3	0.0	0.2	129.0	129.0	-25.4	-25.1
KCYN0087	6/8/2021 9:50	37.5	36.7	0.1	25.7	139.0	139.0	-25.5	-23.1
KCYN0088	6/4/2021 16:01	52.5	39.3	0.0	8.2	118.0	118.0	-35.5	-35.2
KCYN0089	6/4/2021 14:38	46.8	36.9	0.9	15.4	139.0	138.0	-20.0	-19.9
KCYN0090	6/5/2021 12:54	53.3	39.4	0.0	7.3	110.0	111.0	-21.9	-21.4
KCYN0091	6/4/2021 14:32	48.4	39.1	0.1	12.4	138.0	138.0	-25.0	-25.1
KCYN0092	6/4/2021 14:55	54.8	40.9	0.0	4.3	117.0	117.0	-28.2	-27.7

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - June 4, 5, 8, and 9, 2021

Device ID	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.)
KCYN0093	6/4/2021 15:15	53.3	40.0	0.0	6.7	126.0	126.0	-2.8	-2.9
KCYN0094	6/5/2021 12:39	51.8	38.9	0.5	8.8	125.0	125.0	-5.9	-5.9
KCYN0095	6/4/2021 16:27	55.5	40.8	0.9	2.8	126.0	126.0	-35.0	-36.0
KCYN0097	6/8/2021 15:55	54.9	40.6	0.2	4.3	123.0	122.0	-7.4	-9.7
KCYN0098	6/5/2021 12:34	53.0	40.4	0.1	6.5	119.0	119.0	-3.0	-3.0
KCYN0099	6/4/2021 11:48	38.6	35.9	0.0	25.5	132.0	132.0	-12.3	-9.4
KCYN0101	6/4/2021 15:41	43.3	35.1	0.0	21.6	102.0	102.0	-1.2	-1.2
KCYN0102	6/4/2021 15:51	45.7	36.8	0.0	17.5	108.0	108.0	-0.7	-0.7
KCYN0103	6/5/2021 12:48	43.6	37.1	0.0	19.3	119.0	119.0	-4.1	-4.2
KCYN0105	6/5/2021 11:17	55.6	40.7	1.1	2.6	105.0	105.0	-44.1	-44.2
KCYN0105	6/5/2021 11:18	55.6	40.7	1.1	2.6	105.0	105.0	-44.1	-43.8
KCYN0118	6/5/2021 12:02	53.5	41.2	0.8	4.5	122.0	122.0	-38.1	-38.4
KCYN0119	6/5/2021 12:17	44.5	37.7	0.2	17.6	132.0	132.0	-17.6	-17.9
KCYN0121	6/5/2021 11:58	56.1	43.8	0.0	0.1	118.0	122.0	-42.5	-42.4
KCYN0122	6/5/2021 12:07	51.6	38.0	2.1	8.3	111.0	111.0	-39.3	-37.5
KCYN0123	6/8/2021 14:18	48.0	42.8	0.2	9.0	129.0	129.0	-11.8	-11.6
KCYN0123	6/8/2021 14:18	48.0	42.8	0.2	9.0	129.0	129.0	-11.8	-11.6
KCYN0124	6/8/2021 14:56	46.7	38.7	0.1	14.5	108.0	108.0	-1.2	-1.3
KCYN0125	6/8/2021 13:23	53.0	41.1	1.1	4.8	128.0	128.0	-15.9	-15.8
KCYN0126	6/8/2021 13:37	50.8	42.4	0.2	6.6	123.0	123.0	-12.5	-12.5
KCYN0127	6/8/2021 14:27	43.3	38.4	0.0	18.3	128.0	128.0	-4.4	-4.4
KCYN0128	6/5/2021 15:10	50.6	42.0	0.0	7.4	139.0	139.0	-26.8	-26.7
KCYN0129	6/5/2021 14:28	56.1	43.7	0.0	0.2	125.0	125.0	-36.2	-37.3
KCYN0130	6/5/2021 11:42	45.3	34.9	0.2	19.6	115.0	115.0	-18.0	-18.0
KCYN0131	6/5/2021 11:37	54.0	41.0	0.9	4.1	113.0	117.0	-44.7	-44.5
KCYN0133	6/4/2021 14:43	53.2	40.9	0.2	5.7	127.0	129.0	-16.0	-22.7
KCYN0134	6/8/2021 15:49	46.7	40.2	0.0	13.1	115.0	115.0	-27.3	-27.1
KCYN0135	6/4/2021 15:30	50.2	41.7	0.8	7.3	126.0	127.0	-12.9	-14.3
KCYNLR04	6/8/2021 9:54	46.7	34.3	2.6	16.4	101.0	101.0	-33.1	-31.8
KCYNLR08	6/4/2021 10:34	58.9	40.3	0.5	0.3	77.0	77.0	-47.9	-47.5
KCYNLR11	6/9/2021 13:11	57.9	42.0	0.0	0.1	96.0	96.0	-0.2	-0.4

*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 June 30, 2021, there are 73 vertical wells, 0 horizontal collector, and 3 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, San Jose, CA 95037

February 12, 2021

Mr. Raymond Salalila
Air Quality Specialist
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)-Updated

Dear Mr. Salalila:

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 February 22, 2021 through April 30, 2021, 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 and repair of landfill gas (LFG) piping and laterals to improve the existing LFG collection efficiency to maintain compliance with Regulation 8, Rule 34, and is to be performed during the period of February 22, 2021 through April 30, 2021.

The construction work will include excavation and installation of new piping and laterals that will connect to existing LFG extraction wells and to the gas collection and control system (GCCS). The affected areas will then be backfilled. The work for this project includes installation and repair of piping, 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 crew will mobilize to the site on or around February 22, 2021. We anticipate construction activities to conclude by April 30, 2021.

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 pursuant to Regulation 8, Rule 34, Section 118. Please do not hesitate to contact me at (408) 960-0770 with any questions.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Michael L. Winter
District Engineer

Cc: Loi Chau, BAAQMD
Enrique Perez, KCRDF
Bill Louis, WM

BAAQMD RULE 8-34-118 CONSTRUCTION PLAN

Kirby Canyon Recycling & Disposal Facility

CONSTRUCTION FOR INSTALLATION AND REPAIR OF LFG PIPING

February 22, 2021 through April 30, 2021

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 excavation, repair of existing pipe and installation of new piping 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 to maintain compliance with the Rule 8-34-116 and 8-34-117.

Please see below for list of proposed GCCS repairs and installations:

- Installation, repair and tie-ins of piping at bench crossing. Perform bench crossing near well 87, to tie in wells 57, 123 and 56;
- Installation, repair and tie-ins of piping from well 139 to wells 126 and 37;
- Installation, repair and tie-ins of piping from well 142 to 83;
- Any additional piping that may be required at existing pipes and wells; and
- Cut and cap below grade few surface penetrations that are not active

Pursuant to Rule 8-34-117, KCRDF will take the GCCS wells with ID Numbers 87, 57, 123, 139, 126, 37, 142, and 83 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:

- Increase LFG collection efficiency by repairing and installation of LFG laterals and piping on existing wells;
- Increase LFG collection efficiency to further reduce the potential surface emissions;

CONSTRUCTION SCHEDULE
The anticipated construction period will be between February 22, 2021 through April 30, 2021, and is summarized in the table below:

Table 1 - Preliminary Construction Schedule

Task	Project Duration
Mobilize crew, equipment, and materials to site	Week 1
Repair and installation of piping, excavation and backfilling	Up to 8 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:

- Repair and installation of LFG piping;
- Excavation and backfill of pipe trenches; and
- Connection of new 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

LEGEND

- 1400 — EXISTING 10' CONTOUR
- 12" — EXISTING ABOVEGROUND PIPING
- 12" — EXISTING BELOWGROUND PIPING
- EXISTING HORIZONTAL COLLECTOR
- 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

Proposed Project Location

N

0 200 400

SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
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.

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 11/12/2020 — DRAWN BY GVP — DESIGNED BY CME — CHECKED BY NB — 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
2020 GCCS IMPROVEMENTS

AS-BUILT SITE PLAN

SHEET NO. 1

PROJECT NO. 200125

File: X:\PROJECTS\KIRBY CANYON\200125 - 2020 AS-BUILT UPDATE\Project Drawings\200125-KIRBY CYN_2020 FINAL AS BUILT_Rev201112.dwg Layout: S1 User: CHELSEA.EVANS Nov 13, 2020 - 9:38am

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive
P.O. Box 1870
Morgan Hill, CA 95037
(408) 779-2206
(408) 779-5165 Fax

March 12, 2021

Ms. Loi Chau
Air Quality Engineer
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105

Subject: Decommissioning Notification for One Vertical Well
Facility Number A1812
Kirby Canyon Recycling & Disposal Facility, San Jose, California

Dear Ms. Chau,

This letter is to notify the Bay Area Air Quality Management District (BAAQMD) of the decommissioning of one vertical landfill gas (LFG) well 37 on March 4, 2021, at the Kirby Canyon Recycling & Disposal Facility (KCRDF), pursuant to Title V Permit Condition Number 1437 Part 6, as modified by Application Number 27673.

As stated in the most recent well Decommissioning notification letter submitted on October 15, 2020, there were 74 vertical LFG collection wells, 0 horizontal collectors and 3 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 27673 are listed in the following table:

Well Action Per Application #27673	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	25	37	0	3	0	0	0
Remaining Actions	15	13	103	2	8	2	15
Current Active Well Count	73 vertical LFG wells, 0 HC and 3 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 (408) 960-0769.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Becky Azevedo
Technical Manager

cc: Bill Louis, KCRDF
Mike Winter, KCRDF

From:	Phadnis, Rajan
To:	"compliance@baaqmd.gov"
Cc:	Perez, Enrique; Azevedo, Becky; "ephillips@baaqmd.gov"; Phadnis, Rajan
Subject:	KCRDF-A1812- Title V Section I.F 10-day Title V Report
Date:	Friday, March 19, 2021 3:08:21 PM
Attachments:	KCRDF NOV 57374-10 day Title V written report 03.19.2021.pdf

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Attached is the 10-day Title V report for BAAQMD Notice of Violation A-57374, dated March 12, 2021, for Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
rphadnis@wm.com
Kirby Canyon Disposal and Recycling Facility
910 Coyote Creek Golf Road
San Jose, CA 95037

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive
P.O. Box 1870
Morgan Hill, CA 95037
(408) 779-2206
(408) 779-5165 Fax

March 19, 2021 (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-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-day written report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for KCRDF. On March 12, 2021, Erin Phillips, Bay Area Air Quality Management District (BAAQMD) Air Quality Inspector, issued Notice of Violation ("NOV") Number A-57372, (see attachment) for alleged temporary flare shutdown events caused by unplanned utility power outages on January 2 and 9, February 9 and 11, March 17, April 3, May 8, 9, and 27, June 9 and 30, July 12, August 24, September 27, and December 29, 2020 ("NOV Dates"). The NOV alleges violation of:

1. Regulation 2, Section 1-307 "…shall not operate any…equipment…for which an authority to construct or permit to operate has been issued, in violation of any permit condition imposed pursuant to Section 2-1-403 [Permit Conditions]." ("2-1-307")
2. Regulation 1, Section 523.3 "…violation of permit conditions or District regulations to which the source is required to conform…shall be reported to the APCO within 96 hours after such occurrence…." ("1-523.3")
3. Regulation 8 Section 34-301.1 "…gas collection and emission control systems are operated continuously…" ("8-34-301.1")

The unplanned power outage shutdowns noted in the NOV did not result in emissions and do not qualify as non-compliance. The downtime recorded for each of the events noted on the NOV was significantly less than 24 hours per event. 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. As required, a 30-day follow-up letter will confirm the contents of this submittal.

If you have any questions or need any additional information please do not hesitate to contact me at (408) 779-2206.

Sincerely,

Kirby Canyon Recycling & Disposal Facility

Enrique Perez
District Manager

cc: Erin Phillips, BAAQMD

Attachment: Copy of BAAQMD Notice of Violation A-57374

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
375 Beale Street, Suite 600, San Francisco, CA 94105
(415) 749-5000

NOTICE OF VIOLATION

No. A57374

ISSUED TO: Kirby Canyon Recycling and Disposal Facility ☐P ☐G ☐N# A1812

ADDRESS: 910 Coyote Creek Golf Drive

CITY: San Jose STATE: CA ZIP: 95111

PHONE: (408) 960-0769

☑ N# Mailing Address on F61

OCCURRENCE

NAME:

ADDRESS: ☑ Same As Above

CITY: ZIP

SOURCE: S# 1 NAME: Landfill with Gas Collection System

EMISSION PT: P# NAME:

DATE: 1/2/20 - 12/29/20 15 Days TIME: - HRS

☐ REG 2 RULE 1 SEC 301
No Authority to Construct

☐ REG 2 RULE 1 SEC 302
No Permit to Operate

☐ REG 1 SEC 301
H & S CODE - 41700
Public Nuisance

☑ REG 2 RULE 1 SEC 307
Failure to Meet Permit Condition

☐ REG 5 SEC 301
Prohibited Open Burning

☐ REG 6 RULE 1 SEC 301
Excessive Visible Emissions

☑ REG 8 RULE 34 SECTION 301.1 CODE

☑ REG 1 RULE SECTION 523.3 CODE

Details: Min. flare temp P.C. 1437, gas collection not operated continuously, RCA's not reported

RECIPIENT NAME: Enrique Perez

TITLE: District Manager

SIGNING THIS NOTICE IS NOT AN ADMISSION OF GUILT

X

WITHIN 10 DAYS, RETURN A COPY OF THIS NOTICE WITH A WRITTEN DESCRIPTION OF THE IMMEDIATE CORRECTIVE ACTION YOU HAVE TAKEN TO PREVENT CONTINUED OR RECURRENT VIOLATION. **THIS VIOLATION IS SUBJECT TO SUBSTANTIAL PENALTY.** YOUR RESPONSE DOES NOT PRECLUDE FURTHER LEGAL ACTION.

ISSUED BY: Erin Phillips INSP # 853

DATE: 3/12/21 TIME: 1430 HRS ☑ MAILED

PLEASE PRESS HARD

Continued On Reverse

INSTRUCTIONS

PERMIT VIOLATIONS - (REG 2, RULE 1, SECTION 301 AND/OR 302)

Within 30 days, a permit application must be submitted to the District's Permit Division. The permit application must reference the Violation Notice Number Shown on the front of this notice. If either the Violation Notice Number is not referenced or no permit application is received, then this matter will be referred to the District's Legal Department for legal action. Your response does not preclude further legal action.

If there are any questions regarding the submission of a Permit Application, call the Permit Services Division at (415) 749-4990.

ALL OTHER VIOLATIONS

Within 10 days, return a copy of this notice with a written description of the corrective action you have taken to prevent continued or recurrent violation. Immediate corrective action must be taken to stop the violation. This violation is subject to substantial penalty. Your response does not preclude further legal action.

A variance should be sought if it is necessary to continue to operate in violation of District Regulations. For information on eligiblity for, or filing of, a variance, call (415) 749-5073.

From:	Phadnis, Rajan
To:	"compliance@baaqmd.gov"
Cc:	Perez, Enrique; Azevedo, Becky; Phadnis, Rajan; "ephillips@baaqmd.gov"
Subject:	KCRDF-A1812 10-Day NOV Response to BAAQMD NOV A-57374
Date:	Friday, March 19, 2021 3:09:41 PM
Attachments:	KCRDF 10 day NOV 57374- power outages response 03.19.2021.pdf

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Attached is the 10-day NOV response letter for BAAQMD Notice of Violation A-57374, dated March 12, 2021, for Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
rphadnis@wm.com
Kirby Canyon Disposal and Recycling Facility
910 Coyote Creek Golf Road
San Jose, CA 95037

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive
P.O. Box 1870
Morgan Hill, CA 95037
(408) 779-2206
(408) 779-5165 Fax

March 19, 2021 (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
10-Day NOV Response to BAAQMD Notice of Violation A-57374, Dated March 12, 2021

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting this 10-day NOV response letter[1] to Notice of Violation ("NOV") Number A-57372 dated March 12, 2021, (see attachment) for alleged temporary flare shutdown events caused by unplanned utility power outages allegedly on January 2 and 9, February 9 and 11, March 17, April 3, May 8, 9, and 27, June 9 and 30, July 12, August 24, September 27, and December 29, 2020 ("NOV Dates"). A signed copy of the NOV is attached. KCRDF Flare data for these dates is attached. The NOV alleges violation of:

1. Regulation 2, Section 1-307 "…shall not operate any…equipment…for which an authority to construct or permit to operate has been issued, in violation of any permit condition imposed pursuant to Section 2-1-403 [Permit Conditions]." ("2-1-307")
2. Regulation 1, Section 523.3 "…violation of permit conditions or District regulations to which the source is required to conform…shall be reported to the APCO within 96 hours after such occurrence…." ("1-523.3")
3. Regulation 8 Section 34-301.1 "…gas collection and emission control systems are operated continuously…" ("8-34-301.1")

Alleged violations of 2-1-307 and 1-523.3 are predicated on an alleged violation of 8-34-301.1. However, KCRDF was not in violation of 8-34-301.1. The alleged NOV Dates had unforeseeable and unpreventable power outages at KCRDF.

Regulation 8, Rule 34, Section 113 ("8-34-113") Limited Exemption, Inspection and Maintenance, states that "requirements of Sections 8-34-301…shall not apply to solid waste sites

[1] KCRDF submitted its 10-day Title V letter to BAAQMD on March 19, 2021, under Title V Permit Condition Section I.F.

during inspection and maintenance of the landfill gas collection or emission control system…" KCRDF appropriately reported flare downtime events under 8-34-113, as each event required inspection and maintenance during the downtime. These events were reported in KCRDF's startup and shutdown logs in its semi-annual reports. Startup could begin only after the restoration of power by the utility company and KCRDF's safety and environmental inspection and maintenance process for flare startup and emission minimization. Further, the exemption in 8-34-113 applies as KCRDF met the requirement that the "gas collection and emission control systems are not shutdown for more than 240 hours in any calendar year." As KCRDF did not violate 8-34-301.1, it also did not violate 2-1-307 nor 1-523.3.

BAAQMD's apparent interpretation that 8-34-113 does not apply where inspection and maintenance has occurred simply because an unplanned power shutoff event also occurred leads to a result that may create harm to health, safety and/or the environment. Automatically restarting flares and auxiliary equipment (blower skid, air compressor, condensate injection system, PLC and data logger, etc.) without a safety and environmental inspection and/or maintenance may cause serious health, safety and/or environmental concerns. Similarly, using an automatic backup generator would have the same concerns, with the addition of potential additional emissions associated with the generator. Further, switching between a generator and the power system creates additional downtime, as does refueling or other issues that may be associated with use of a generator.

KCRDF additionally asserts that the downtime events did not: 1) interfere with attainment of the BAAQMD, federal, or state standards; 2) endanger health, safety, or welfare of any person; 3) endanger the environment; 4) increase emissions of toxic air contaminants; 5) cause or contribute to a violation of a SAAQS or NAAQS; 6) interfere with the BAAQMD's compliance work; nor 7) result in emissions exceeding de minimis levels. Moreover, 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 but in either case, best practice requires inspection and/or maintenance prior to startup and, therefore, is reported as such.

For the above reasons, KCRDF asserts that it did not violate 2-1-307, 1-523.3 nor 8-34-301.1 and respectfully requests the NOV be rescinded.

Despite its objections, at BAAQMD's request, KCRDF has also focused its efforts toward a solution to reduce power outage downtime hours by reconfiguring the existing electrical panel for transfer switch operation and adding a backup generator to serve as an emergency power source. KCRDF has taken the following proactive steps:

- KCRDF installed a manual transfer switch to reduce the time for switching between utility power and generator.
- KCRDF procured a new emergency generator and automatic transfer switch (ATS).
- KCRDF hired a certified electrical contractor to reconfigure the existing panels to the new generator unit.

- KCRDF is currently in the process of obtaining electrical permit for the ATS from the City of San Jose, CA.

KCRDF is committed to operating its landfill in compliance with applicable regulations and requests a meeting with BAAQMD executive staff to discuss Regulation 8-34-301.1. We may also supplement this response in the future. If you have any questions or need any additional information, please do not hesitate to contact me at (408) 779-2206.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Enrique Perez
District Manager

cc: Erin Phillips, BAAQMD

Attachments: Copy of BAAQMD Notice of Violation A-57374
KCRDF Flare Data

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
375 Beale Street, Suite 600, San Francisco, CA 94105
(415) 749-5000

NOTICE OF VIOLATION

No. A57374

ISSUED TO: Kirby Canyon Recycling and Disposal Facility ☐P ☐G ☐N# A1812

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CITY: San Jose STATE: CA ZIP: 95111

PHONE: (408) 960-0769

☑ N# Mailing Address on F61

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SOURCE: S# 1 NAME: Landfill with Gas Collection System

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Details: Min. flare temp P.C. 1437, gas collection not operated continuously, RCA's not reported

RECIPIENT NAME: Enrique Perez

TITLE: District Manager

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ISSUED BY: Erin Phillips INSP # 853

DATE: 3/12/21 TIME: 1430 HRS ☑ MAILED

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KCRDF Flare Data

Flare shutdown due to power interruptions (power outage/surge/single phasing) during the following events

Date	Duration	Event Reason
1/2/2020	9.37	Outage
1/9/2020	7.73	Outage
2/9/2020	3.23	Outage
2/11/2020	2.57	Single-phasing
3/17/2020	0.43	Surge
4/3/2020	1.6	Surge
5/8/2020	1.23	Outage
5/9/2020	0.4	Outage
5/27/2020	0.4	Outage
6/9/2020	2.47	Outage
6/30/2020	0.3	Surge
7/12/2020	2.27	Surge
8/24/2020	0.97	Outage
9/27/2020	8.87	Outage
12/29/2020	0.6	Surge

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	CH01 Flare F MAX	CH02 Flare SCFM MIN	CH02 Flare SCFM MAX
2020/01/02	22:00:00	1666	1684	2295	2394
2020/01/02	22:02:00	1667	1672	2298	2421
2020/01/02	22:04:00	1662	1688	2297	2401
2020/01/02	22:06:00	1664	1684	2287	2381
2020/01/02	22:08:00	1666	1674	2310	2409
2020/01/02	22:10:00	1667	1677	2280	2387
2020/01/02	22:12:00	1673	1681	2300	2400
2020/01/02	22:14:00	1664	1677	2273	2386
2020/01/02	22:16:00	1660	1686	2294	2408
2020/01/02	22:18:00	1662	1684	2284	2381
2020/01/02	22:20:00	1666	1681	2282	2396
2020/01/02	22:22:00	1664	1677	2303	2388
2020/01/02	22:24:00	1664	1691	2284	2383
2020/01/02	22:26:00	1664	1686	2313	2406
2020/01/02	22:28:00	1663	1681	2269	2400
2020/01/02	22:30:00	1676	1683	2292	2401
2020/01/02	22:32:00	1662	1677	2264	2391
2020/01/02	22:34:00	1667	1683	2274	2425
2020/01/02	22:36:00	1669	1681	2303	2392
2020/01/02	22:38:00	1669	1679	2292	2398
2020/01/02	22:40:00	1660	1676	2299	2396
2020/01/02	22:42:00	1669	1689	2267	2385
2020/01/02	22:44:00	1663	1683	2305	2395
2020/01/02	22:46:00	1671	1681	2272	2378
2020/01/02	22:48:00	1669	1672	2272	2394
2020/01/02	22:50:00	1666	1686	2277	2397
2020/01/02	22:52:00	1664	1683	2269	2380
2020/01/02	22:54:00	1665	1684	2300	2380
2020/01/02	22:56:00	1660	1684	2292	2378
2020/01/02	22:58:00	1669	1686	2285	2394
2020/01/02	23:00:00	1666	1670	2274	2385
2020/01/02	23:02:00	1664	1693	2285	2419
2020/01/02	23:04:00	1664	1681	2280	2398
2020/01/02	23:06:00	1667	1677	2308	2388
2020/01/02	23:08:00	1666	1674	2289	2406
2020/01/02	23:10:00	1672	1688	2308	2400
2020/01/02	23:12:00	1659	1679	2280	2386
2020/01/02	23:14:00	1660	1686	2299	2389
2020/01/02	23:16:00	1660	1686	2284	2388
2020/01/02	23:18:00	1659	1689	2292	2406
2020/01/02	23:20:00	1664	1683	2305	2398
2020/01/02	23:22:00	1666	1670	2294	2403
2020/01/02	23:24:00	1666	1691	2274	2378
2020/01/02	23:26:00	1666	1681	2310	2388
2020/01/02	23:28:00	1661	1683	2295	2384
2020/01/02	23:30:00	1669	1681	2298	2384

2020/01/02	23:32:00	1669	1676	2305	2399
2020/01/02	23:34:00	1669	1674	2295	2399
2020/01/02	23:36:00	1667	1688	2294	2386
2020/01/02	23:38:00	1660	1683	2298	2409
2020/01/02	23:40:00	1664	1686	2294	2384
2020/01/02	23:42:00	1672	1684	2289	2387
2020/01/02	23:44:00	1664	1676	2284	2408
2020/01/02	23:46:00	1672	1677	2273	2406
2020/01/02	23:48:00	1671	1674	2302	2371
2020/01/02	23:50:00	1672	1681	2295	2387
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2020/01/03	04:36:00
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2020/01/03	04:42:00

2020/01/03	04:44:00
2020/01/03	04:46:00
2020/01/03	04:48:00
2020/01/03	04:50:00
2020/01/03	04:52:00
2020/01/03	04:54:00
2020/01/03	04:56:00
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2020/01/03	05:12:00
2020/01/03	05:14:00
2020/01/03	05:16:00
2020/01/03	05:18:00
2020/01/03	05:20:00
2020/01/03	05:22:00
2020/01/03	05:24:00
2020/01/03	05:26:00
2020/01/03	05:28:00
2020/01/03	05:30:00
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Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
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2020/01/09	13:08:00
2020/01/09	13:10:00
2020/01/09	13:12:00
2020/01/09	13:14:00
2020/01/09	13:16:00
2020/01/09	13:18:00
2020/01/09	13:20:00
2020/01/09	13:22:00
2020/01/09	13:24:00
2020/01/09	13:26:00
2020/01/09	13:28:00
2020/01/09	13:30:00
2020/01/09	13:32:00
2020/01/09	13:34:00
2020/01/09	13:36:00
2020/01/09	13:38:00
2020/01/09	13:40:00
2020/01/09	13:42:00
2020/01/09	13:44:00
2020/01/09	13:46:00
2020/01/09	13:48:00
2020/01/09	13:50:00
2020/01/09	13:52:00
2020/01/09	13:54:00

2020/01/09	13:56:00				
2020/01/09	13:58:00				
2020/01/09	14:00:00				
2020/01/09	14:02:00				
2020/01/09	14:04:00				
2020/01/09	14:06:00				
2020/01/09	14:08:00				
2020/01/09	14:10:00				
2020/01/09	14:12:00	55	56	-415	64
2020/01/09	14:14:00	55	56	0	1
2020/01/09	14:16:00	55	56	0	1
2020/01/09	14:18:00	56	56	0	1
2020/01/09	14:20:00	56	56	0	1
2020/01/09	14:22:00	56	56	0	0
2020/01/09	14:24:00	56	56	0	0
2020/01/09	14:26:00	56	56	0	0
2020/01/09	14:28:00	56	173	1	4161
2020/01/09	14:30:00	173	1689	1	3936
2020/01/09	14:32:00	1500	1657	2691	2835
2020/01/09	14:34:00	1472	1508	2650	2761
2020/01/09	14:36:00	1508	1542	2674	2777
2020/01/09	14:38:00	1532	1547	2658	2744
2020/01/09	14:40:00	1547	1578	2637	2745
2020/01/09	14:42:00	1577	1607	2631	2707
2020/01/09	14:44:00	1598	1618	2615	2680
2020/01/09	14:46:00	1604	1642	2597	2677
2020/01/09	14:48:00	1624	1643	2584	2672
2020/01/09	14:50:00	1624	1643	2542	2662
2020/01/09	14:52:00	1642	1666	2554	2632
2020/01/09	14:54:00	1649	1662	2538	2645
2020/01/09	14:56:00	1656	1686	2546	2654
2020/01/09	14:58:00	1654	1681	2534	2632
2020/01/09	15:00:00	1657	1684	2526	2633
2020/01/09	15:02:00	1659	1693	2511	2614
2020/01/09	15:04:00	1666	1684	2519	2597
2020/01/09	15:06:00	1666	1679	2512	2612
2020/01/09	15:08:00	1659	1686	2516	2592
2020/01/09	15:10:00	1659	1688	2497	2596
2020/01/09	15:12:00	1661	1684	2511	2580
2020/01/09	15:14:00	1662	1679	2501	2594
2020/01/09	15:16:00	1666	1686	2493	2570
2020/01/09	15:18:00	1666	1680	2506	2579
2020/01/09	15:20:00	1669	1688	2474	2574
2020/01/09	15:22:00	1664	1686	2468	2567
2020/01/09	15:24:00	1659	1686	2474	2559
2020/01/09	15:26:00	1660	1688	2468	2580
2020/01/09	15:28:00	1666	1688	2484	2572
2020/01/09	15:30:00	1659	1686	2468	2579

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/02/09	12:00:00	1655	1679	2226	2357
2020/02/09	12:02:00	1666	1684	2203	2367
2020/02/09	12:04:00	1669	1681	2221	2334
2020/02/09	12:06:00	1656	1689	2218	2362
2020/02/09	12:08:00	1667	1684	2231	2345
2020/02/09	12:10:00	1669	1684	2231	2345
2020/02/09	12:12:00	1666	1676	2217	2344
2020/02/09	12:14:00	1664	1681	2212	2349
2020/02/09	12:16:00	1669	1686	2238	2387
2020/02/09	12:18:00	1660	1691	2230	2332
2020/02/09	12:20:00	1662	1688	2236	2360
2020/02/09	12:22:00	1662	1690	2239	2352
2020/02/09	12:24:00	1664	1688	2220	2343
2020/02/09	12:26:00	1671	1688	2231	2337
2020/02/09	12:28:00	1669	1683	2223	2345
2020/02/09	12:30:00	1666	1683	2235	2363
2020/02/09	12:32:00	1669	1686	2256	2367
2020/02/09	12:34:00	1656	1686	2213	2371
2020/02/09	12:36:00	1663	1681	2248	2365
2020/02/09	12:38:00	1661	1687	2248	2340
2020/02/09	12:40:00	1666	1686	2228	2379
2020/02/09	12:42:00	1666	1684	2231	2367
2020/02/09	12:44:00	1656	1683	2230	2378
2020/02/09	12:46:00	1663	1686	2213	2350
2020/02/09	12:48:00	1672	1679	2228	2337
2020/02/09	12:50:00	1667	1688	2253	2358
2020/02/09	12:52:00	1668	1677	2230	2330
2020/02/09	12:54:00	1558	1681	56	2339
2020/02/09	12:56:00	1055	1558	-3	57
2020/02/09	12:58:00	779	1055	-3	24
2020/02/09	13:00:00	611	779	-3	-2
2020/02/09	13:02:00	493	611	-3	-2
2020/02/09	13:04:00	405	493	-3	-2
2020/02/09	13:06:00	338	405	-3	-2
2020/02/09	13:08:00	278	338	-3	-2
2020/02/09	13:10:00	234	278	-3	-2
2020/02/09	13:12:00	202	235	-3	-2
2020/02/09	13:14:00	179	202	-3	-2
2020/02/09	13:16:00	159	179	-3	21
2020/02/09	13:18:00	144	159	-364	-2
2020/02/09	13:20:00	132	144	-415	98
2020/02/09	13:22:00	123	132	-3	-2
2020/02/09	13:24:00	115	123	-3	-2
2020/02/09	13:26:00	108	115	-3	-2
2020/02/09	13:28:00	102	108	-3	-2

2020/02/09	13:30:00	97	102	-3	19
2020/02/09	13:32:00	92	97	-3	22
2020/02/09	13:34:00	88	92	-3	-2
2020/02/09	13:36:00	85	88	-3	-2
2020/02/09	13:38:00	82	85	-3	-2
2020/02/09	13:40:00	80	82	-3	-2
2020/02/09	13:42:00	78	80	-3	-2
2020/02/09	13:44:00	75	78	-3	-2
2020/02/09	13:46:00	75	76	-3	-2
2020/02/09	13:48:00	74	75	-3	-2
2020/02/09	13:50:00	73	74	-3	-2
2020/02/09	13:52:00	72	73	-3	18
2020/02/09	13:54:00	71	72	-3	21
2020/02/09	13:56:00	71	71	-3	19
2020/02/09	13:58:00	70	71	-3	19
2020/02/09	14:00:00	70	71	-3	21
2020/02/09	14:02:00	70	70	-3	19
2020/02/09	14:04:00	70	70	-3	28
2020/02/09	14:06:00	70	70	-3	24
2020/02/09	14:08:00	68	70	-3	24
2020/02/09	14:10:00	68	69	-3	21
2020/02/09	14:12:00	68	69	-3	19
2020/02/09	14:14:00	68	69	-3	19
2020/02/09	14:16:00	68	69	-3	-2
2020/02/09	14:18:00	68	69	-3	-2
2020/02/09	14:20:00	68	68	-3	-2
2020/02/09	14:22:00	68	68	-3	-2
2020/02/09	14:24:00	68	68	-3	-2
2020/02/09	14:26:00	68	68	-3	-2
2020/02/09	14:28:00	68	68	-3	-2
2020/02/09	14:30:00	68	68	-3	-2
2020/02/09	14:32:00	67	68	-3	-2
2020/02/09	14:34:00	67	67	-3	-2
2020/02/09	14:36:00	67	67	-2	21
2020/02/09	14:38:00	67	67	-3	-2
2020/02/09	14:40:00	66	67	-3	-2
2020/02/09	14:42:00	65	67	-3	19
2020/02/09	14:44:00	65	66	-3	-2
2020/02/09	14:46:00	66	66	-3	-2
2020/02/09	14:48:00	65	66	-3	22
2020/02/09	14:50:00	65	66	-2	-2
2020/02/09	14:52:00	65	66	-3	-2
2020/02/09	14:54:00	65	66	-3	-2
2020/02/09	14:56:00	66	66	-3	-2
2020/02/09	14:58:00	65	66	-2	-2
2020/02/09	15:00:00	65	66	-3	-2
2020/02/09	15:02:00	65	66	-2	-2
2020/02/09	15:04:00	65	66	-2	-2
2020/02/09	15:06:00	65	66	-3	-2
2020/02/09	15:08:00	66	66	-3	-2
2020/02/09	15:10:00	65	66	-2	-2
2020/02/09	15:12:00	65	66	-3	-2

2020/02/09	15:14:00	66	66	-2	-2
2020/02/09	15:16:00	66	66	-2	-2
2020/02/09	15:18:00	65	66	-3	-1
2020/02/09	15:20:00	65	66	-2	-2
2020/02/09	15:22:00	65	66	-2	-2
2020/02/09	15:24:00	65	65	-2	-2
2020/02/09	15:26:00	65	65	-3	-2
2020/02/09	15:28:00	65	65	-2	-2
2020/02/09	15:30:00	65	65	-3	-2
2020/02/09	15:32:00	65	65	-3	-2
2020/02/09	15:34:00	65	65	-2	-2
2020/02/09	15:36:00	65	65	-2	-2
2020/02/09	15:38:00	65	65	-2	-2
2020/02/09	15:40:00	64	65	-2	-2
2020/02/09	15:42:00	63	65	-2	-2
2020/02/09	15:44:00	63	65	-3	-2
2020/02/09	15:46:00				
2020/02/09	15:48:00				
2020/02/09	15:50:00	64	64	-428	99
2020/02/09	15:52:00	64	65	-2	-1
2020/02/09	15:54:00	64	65	-2	18
2020/02/09	15:56:00	65	65	-2	-1
2020/02/09	15:58:00	65	65	-2	-2
2020/02/09	16:00:00	64	65	-2	-2
2020/02/09	16:02:00	64	65	-2	-2
2020/02/09	16:04:00	63	65	-2	-2
2020/02/09	16:06:00	63	65	-2	-2
2020/02/09	16:08:00	63	65	-2	19
2020/02/09	16:10:00	65	100	-2	3739
2020/02/09	16:12:00	100	1228	2965	4646
2020/02/09	16:14:00	1228	1390	2725	3027
2020/02/09	16:16:00	1340	1404	2676	2808
2020/02/09	16:18:00	1391	1430	2683	2849
2020/02/09	16:20:00	1430	1621	2624	2777
2020/02/09	16:22:00	1489	1531	2627	2784
2020/02/09	16:24:00	1484	1513	2610	2723
2020/02/09	16:26:00	1494	1515	2556	2686
2020/02/09	16:28:00	1493	1534	2547	2673
2020/02/09	16:30:00	1510	1534	2528	2650
2020/02/09	16:32:00	1511	1567	2524	2622
2020/02/09	16:34:00	1541	1566	2524	2637
2020/02/09	16:36:00	1541	1559	2519	2614
2020/02/09	16:38:00	1545	1565	2503	2616
2020/02/09	16:40:00	1545	1566	2501	2637
2020/02/09	16:42:00	1546	1565	2496	2605
2020/02/09	16:44:00	1551	1572	2480	2600
2020/02/09	16:46:00	1545	1589	2488	2590
2020/02/09	16:48:00	1545	1579	2465	2613
2020/02/09	16:50:00	1567	1578	2493	2606
2020/02/09	16:52:00	1573	1621	2466	2602
2020/02/09	16:54:00	1615	1655	2450	2597
2020/02/09	16:56:00	1654	1671	2473	2587

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/02/11	08:30:00	1672	1684	2232	2372
2020/02/11	08:32:00	1657	1689	2218	2379
2020/02/11	08:34:00	1662	1687	2247	2374
2020/02/11	08:36:00	1671	1685	2264	2367
2020/02/11	08:38:00	1657	1679	2280	2369
2020/02/11	08:40:00	1662	1683	2240	2356
2020/02/11	08:42:00	1669	1682	2241	2362
2020/02/11	08:44:00	1672	1682	2242	2390
2020/02/11	08:46:00	1662	1679	2250	2395
2020/02/11	08:48:00	1669	1686	2257	2357
2020/02/11	08:50:00	1669	1676	2257	2372
2020/02/11	08:52:00	1659	1689	2267	2374
2020/02/11	08:54:00	1659	1693	2278	2390
2020/02/11	08:56:00	1660	1689	2230	2370
2020/02/11	08:58:00	1660	1681	2258	2372
2020/02/11	09:00:00	1662	1679	2257	2374
2020/02/11	09:02:00	1662	1684	2241	2374
2020/02/11	09:04:00	1659	1688	2241	2380
2020/02/11	09:06:00	1657	1686	2238	2362
2020/02/11	09:08:00	1666	1683	2255	2372
2020/02/11	09:10:00	1662	1681	2270	2365
2020/02/11	09:12:00	1669	1681	2255	2367
2020/02/11	09:14:00	1662	1671	2259	2350
2020/02/11	09:16:00	1662	1688	2231	2399
2020/02/11	09:18:00	1671	1681	2224	2385
2020/02/11	09:20:00	1659	1681	2114	2373
2020/02/11	09:22:00	1141	1662	-3	2114
2020/02/11	09:24:00				
2020/02/11	09:26:00	649	768	-393	70
2020/02/11	09:28:00	551	649	-3	-3
2020/02/11	09:30:00	448	551	-3	-2
2020/02/11	09:32:00	367	367	-360	-359
2020/02/11	09:34:00	303	367	-404	90
2020/02/11	09:36:00	256	303	-3	-3
2020/02/11	09:38:00	223	256	-3	-3
2020/02/11	09:40:00	198	223	-3	-3
2020/02/11	09:42:00	174	198	-3	-3
2020/02/11	09:44:00	158	174	-3	-3
2020/02/11	09:46:00	145	158	-3	-3
2020/02/11	09:48:00	135	145	-3	-3
2020/02/11	09:50:00	125	135	-3	-3
2020/02/11	09:52:00	117	125	-3	-3
2020/02/11	09:54:00				
2020/02/11	09:56:00				
2020/02/11	09:58:00				

2020/02/11	10:00:00
2020/02/11	10:02:00
2020/02/11	10:04:00
2020/02/11	10:06:00
2020/02/11	10:08:00
2020/02/11	10:10:00
2020/02/11	10:12:00
2020/02/11	10:14:00
2020/02/11	10:16:00
2020/02/11	10:18:00
2020/02/11	10:20:00
2020/02/11	10:22:00
2020/02/11	10:24:00
2020/02/11	10:26:00
2020/02/11	10:28:00
2020/02/11	10:30:00
2020/02/11	10:32:00
2020/02/11	10:34:00
2020/02/11	10:36:00
2020/02/11	10:38:00
2020/02/11	10:40:00
2020/02/11	10:42:00
2020/02/11	10:44:00
2020/02/11	10:46:00
2020/02/11	10:48:00
2020/02/11	10:50:00
2020/02/11	10:52:00
2020/02/11	10:54:00
2020/02/11	10:56:00
2020/02/11	10:58:00
2020/02/11	11:00:00
2020/02/11	11:02:00
2020/02/11	11:04:00
2020/02/11	11:06:00
2020/02/11	11:08:00
2020/02/11	11:10:00
2020/02/11	11:12:00
2020/02/11	11:14:00
2020/02/11	11:16:00
2020/02/11	11:18:00
2020/02/11	11:20:00
2020/02/11	11:22:00
2020/02/11	11:24:00
2020/02/11	11:26:00
2020/02/11	11:28:00
2020/02/11	11:30:00
2020/02/11	11:32:00
2020/02/11	11:34:00
2020/02/11	11:36:00
2020/02/11	11:38:00
2020/02/11	11:40:00
2020/02/11	11:42:00

2020/02/11	11:44:00				
2020/02/11	11:46:00				
2020/02/11	11:48:00	70	70	-425	91
2020/02/11	11:50:00	70	70	-2	-1
2020/02/11	11:52:00	70	70	-2	-2
2020/02/11	11:54:00	70	70	-2	-1
2020/02/11	11:56:00	67	70	-3	-2
2020/02/11	11:58:00	67	95	-2	3391
2020/02/11	12:00:00	95	1399	3024	3747
2020/02/11	12:02:00	1399	1618	2888	3086
2020/02/11	12:04:00	1552	1601	2792	2940
2020/02/11	12:06:00	1541	1561	2720	2881
2020/02/11	12:08:00	1483	1551	2694	2803
2020/02/11	12:10:00	1506	1693	2611	2773
2020/02/11	12:12:00	1674	1707	2593	2722
2020/02/11	12:14:00	1668	1688	2569	2652
2020/02/11	12:16:00	1671	1687	2532	2668
2020/02/11	12:18:00	1661	1677	2534	2647
2020/02/11	12:20:00	1663	1688	2500	2642
2020/02/11	12:22:00	1664	1683	2500	2622
2020/02/11	12:24:00	1661	1674	2482	2628
2020/02/11	12:26:00	1669	1686	2505	2607
2020/02/11	12:28:00	1664	1677	2488	2586
2020/02/11	12:30:00	1667	1674	2484	2579
2020/02/11	12:32:00	1663	1683	2470	2587
2020/02/11	12:34:00	1662	1681	2468	2590
2020/02/11	12:36:00	1668	1683	2480	2580
2020/02/11	12:38:00	1666	1680	2460	2587
2020/02/11	12:40:00	1663	1678	2456	2578
2020/02/11	12:42:00	1667	1688	2461	2578
2020/02/11	12:44:00	1658	1685	2446	2562
2020/02/11	12:46:00	1666	1689	2453	2575
2020/02/11	12:48:00	1663	1680	2453	2562
2020/02/11	12:50:00	1659	1686	2463	2542
2020/02/11	12:52:00	1663	1688	2455	2553
2020/02/11	12:54:00	1659	1687	2461	2548
2020/02/11	12:56:00	1656	1684	2453	2583
2020/02/11	12:58:00	1666	1688	2448	2555
2020/02/11	13:00:00	1663	1691	2446	2532

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/03/17	15:00:00	1665	1683	2235	2351
2020/03/17	15:02:00	1660	1679	2228	2352
2020/03/17	15:04:00	1667	1679	2222	2342
2020/03/17	15:06:00	1660	1683	2223	2343
2020/03/17	15:08:00	1661	1684	2267	2358
2020/03/17	15:10:00	1663	1686	2256	2363
2020/03/17	15:12:00	1661	1686	2239	2332
2020/03/17	15:14:00	1660	1688	2243	2363
2020/03/17	15:16:00	1662	1687	2235	2348
2020/03/17	15:18:00	1663	1686	2248	2369
2020/03/17	15:20:00	1663	1679	2246	2347
2020/03/17	15:22:00	1665	1686	2253	2360
2020/03/17	15:24:00	1666	1677	2268	2340
2020/03/17	15:26:00	1668	1678	2241	2335
2020/03/17	15:28:00	1667	1686	2244	2347
2020/03/17	15:30:00	1656	1686	2254	2365
2020/03/17	15:32:00	1661	1685	2236	2337
2020/03/17	15:34:00	1663	1683	2225	2344
2020/03/17	15:36:00	1666	1683	2238	2350
2020/03/17	15:38:00	1663	1676	2243	2350
2020/03/17	15:40:00	1662	1685	2240	2369
2020/03/17	15:42:00	1663	1683	2256	2342
2020/03/17	15:44:00	1661	1681	2222	2335
2020/03/17	15:46:00	1665	1676	2238	2347
2020/03/17	15:48:00	1667	1688	2246	2360
2020/03/17	15:50:00	1662	1684	2232	2373
2020/03/17	15:52:00	1662	1684	2238	2348
2020/03/17	15:54:00	1671	1684	2221	2352
2020/03/17	15:56:00	1668	1677	2223	2344
2020/03/17	15:58:00	1662	1677	2199	2335
2020/03/17	16:00:00	1661	1688	2230	2348
2020/03/17	16:02:00	1587	1638	-361	-358
2020/03/17	16:04:00	1155	1587	-411	96
2020/03/17	16:06:00	899	1155	-3	22
2020/03/17	16:08:00	741	899	-3	-3
2020/03/17	16:10:00	624	741	-3	-2
2020/03/17	16:12:00	537	624	-3	-2
2020/03/17	16:14:00	471	537	-3	-2
2020/03/17	16:16:00	417	471	-3	-2
2020/03/17	16:18:00	373	417	-3	-2
2020/03/17	16:20:00	335	373	-3	-2
2020/03/17	16:22:00	303	335	-3	-2
2020/03/17	16:24:00	272	303	-3	-2
2020/03/17	16:26:00	241	272	-3	-2
2020/03/17	16:28:00	231	465	-3	3433

2020/03/17	16:30:00	465	1091	2261	2915
2020/03/17	16:32:00	1091	1503	2355	2552
2020/03/17	16:34:00	1503	1654	2392	2513
2020/03/17	16:36:00	1643	1680	2351	2497
2020/03/17	16:38:00	1662	1681	2391	2477
2020/03/17	16:40:00	1663	1675	2379	2482
2020/03/17	16:42:00	1650	1688	2366	2457
2020/03/17	16:44:00	1660	1686	2343	2470
2020/03/17	16:46:00	1662	1684	2363	2457
2020/03/17	16:48:00	1668	1684	2380	2459
2020/03/17	16:50:00	1663	1671	2358	2459
2020/03/17	16:52:00	1669	1690	2348	2484
2020/03/17	16:54:00	1662	1684	2347	2441
2020/03/17	16:56:00	1663	1686	2327	2433
2020/03/17	16:58:00	1666	1684	2357	2428
2020/03/17	17:00:00	1667	1672	2332	2418
2020/03/17	17:02:00	1669	1691	2322	2444
2020/03/17	17:04:00	1662	1686	2330	2431
2020/03/17	17:06:00	1660	1693	2324	2426
2020/03/17	17:08:00	1669	1686	2309	2434
2020/03/17	17:10:00	1663	1688	2351	2433
2020/03/17	17:12:00	1662	1688	2320	2426
2020/03/17	17:14:00	1663	1681	2314	2426
2020/03/17	17:16:00	1673	1683	2308	2428
2020/03/17	17:18:00	1662	1679	2320	2425
2020/03/17	17:20:00	1669	1676	2291	2413
2020/03/17	17:22:00	1669	1677	2309	2406
2020/03/17	17:24:00	1676	1683	2294	2451
2020/03/17	17:26:00	1661	1684	2317	2399
2020/03/17	17:28:00	1662	1681	2296	2435
2020/03/17	17:30:00	1669	1674	2297	2404

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/04/03	08:00:00	1662	1688	2294	2443
2020/04/03	08:02:00	1660	1688	2282	2393
2020/04/03	08:04:00	1660	1686	2304	2406
2020/04/03	08:06:00	1660	1684	2317	2400
2020/04/03	08:08:00	1660	1681	2290	2398
2020/04/03	08:10:00	1662	1686	2290	2410
2020/04/03	08:12:00	1664	1686	2311	2401
2020/04/03	08:14:00	1667	1686	2282	2406
2020/04/03	08:16:00	1667	1673	2292	2404
2020/04/03	08:18:00	1667	1672	2297	2419
2020/04/03	08:20:00	1669	1686	2320	2393
2020/04/03	08:22:00	1660	1683	2304	2396
2020/04/03	08:24:00	1669	1687	2295	2408
2020/04/03	08:26:00	1662	1674	2290	2383
2020/04/03	08:28:00	1674	1680	2310	2419
2020/04/03	08:30:00	1671	1676	2303	2404
2020/04/03	08:32:00	1665	1689	2295	2398
2020/04/03	08:34:00	1664	1683	2310	2401
2020/04/03	08:36:00	1665	1684	2303	2422
2020/04/03	08:38:00	1657	1687	2302	2414
2020/04/03	08:40:00	1662	1684	2292	2424
2020/04/03	08:42:00	1667	1675	2297	2411
2020/04/03	08:44:00	1672	1676	2308	2417
2020/04/03	08:46:00	1669	1676	2300	2439
2020/04/03	08:48:00	1672	1677	2310	2391
2020/04/03	08:50:00	1669	1688	2312	2429
2020/04/03	08:52:00	1671	1684	2295	2429
2020/04/03	08:54:00	1664	1675	2295	2399
2020/04/03	08:56:00	1671	1675	2295	2401
2020/04/03	08:58:00	1672	1677	2298	2392
2020/04/03	09:00:00	1669	1674	2300	2407
2020/04/03	09:02:00	1517	1688	34	2419
2020/04/03	09:04:00	1045	1517	-3	34
2020/04/03	09:06:00	797	1045	-3	-2
2020/04/03	09:08:00	641	797	-3	-2
2020/04/03	09:10:00	527	641	-3	-2
2020/04/03	09:12:00	444	527	-3	-2
2020/04/03	09:14:00	377	444	-3	-2
2020/04/03	09:16:00	323	377	-3	-2
2020/04/03	09:18:00	282	323	-3	-2
2020/04/03	09:20:00	248	282	-3	-2
2020/04/03	09:22:00	224	248	-3	-2
2020/04/03	09:24:00	202	224	-3	-2
2020/04/03	09:26:00	182	202	-3	-2
2020/04/03	09:28:00	165	182	-3	-2

2020/04/03	09:30:00	150	165	-3	-2
2020/04/03	09:32:00	138	150	-3	-2
2020/04/03	09:34:00	128	138	-3	-2
2020/04/03	09:36:00	121	128	-3	-2
2020/04/03	09:38:00	115	121	-3	-2
2020/04/03	09:40:00	109	115	-3	-2
2020/04/03	09:42:00	104	109	-3	-2
2020/04/03	09:44:00	99	104	-3	-2
2020/04/03	09:46:00	95	100	-3	-2
2020/04/03	09:48:00	92	96	-3	-2
2020/04/03	09:50:00	89	92	-3	-2
2020/04/03	09:52:00	86	89	-3	-2
2020/04/03	09:54:00	84	87	-3	-3
2020/04/03	09:56:00	82	84	-3	-2
2020/04/03	09:58:00	80	82	-3	-3
2020/04/03	10:00:00	78	80	-3	-2
2020/04/03	10:02:00	77	78	-3	-2
2020/04/03	10:04:00	75	77	-3	-3
2020/04/03	10:06:00	75	76	-3	-1
2020/04/03	10:08:00	74	75	-3	-3
2020/04/03	10:10:00	73	74	-3	-2
2020/04/03	10:12:00	72	73	-3	-2
2020/04/03	10:14:00	71	72	-3	-3
2020/04/03	10:16:00	71	71	-3	-2
2020/04/03	10:18:00	70	71	-3	-3
2020/04/03	10:20:00	70	70	-3	-3
2020/04/03	10:22:00	68	70	-3	-2
2020/04/03	10:24:00	68	69	-3	-2
2020/04/03	10:26:00	68	69	-3	-1
2020/04/03	10:28:00	68	68	-3	-3
2020/04/03	10:30:00	68	68	-3	-3
2020/04/03	10:32:00	67	68	-3	-3
2020/04/03	10:34:00	67	67	-3	-3
2020/04/03	10:36:00	65	67	-3	-1
2020/04/03	10:38:00	65	66	-3	-1
2020/04/03	10:40:00	65	76	-3	2785
2020/04/03	10:42:00	76	951	2785	3513
2020/04/03	10:44:00	951	1298	2623	3190
2020/04/03	10:46:00	1293	1563	2634	2710
2020/04/03	10:48:00	1563	1651	2624	2698
2020/04/03	10:50:00	1645	1674	2601	2669
2020/04/03	10:52:00	1661	1674	2576	2665
2020/04/03	10:54:00	1666	1679	2587	2655
2020/04/03	10:56:00	1646	1688	2577	2656
2020/04/03	10:58:00	1658	1681	2582	2676
2020/04/03	11:00:00	1660	1688	2555	2661
2020/04/03	11:02:00	1662	1679	2565	2639
2020/04/03	11:04:00	1664	1676	2539	2635
2020/04/03	11:06:00	1664	1681	2534	2623
2020/04/03	11:08:00	1666	1679	2559	2626
2020/04/03	11:10:00	1666	1691	2544	2634
2020/04/03	11:12:00	1664	1686	2544	2630

2020/04/03	11:14:00	1662	1681	2559	2628
2020/04/03	11:16:00	1662	1691	2553	2631
2020/04/03	11:18:00	1663	1681	2578	2647
2020/04/03	11:20:00	1663	1684	2580	2634
2020/04/03	11:22:00	1666	1681	2583	2637
2020/04/03	11:24:00	1666	1694	2555	2638
2020/04/03	11:26:00	1664	1695	2570	2643
2020/04/03	11:28:00	1665	1681	2573	2644
2020/04/03	11:30:00	1667	1683	2573	2647
2020/04/03	11:32:00	1664	1681	2573	2636
2020/04/03	11:34:00	1666	1681	2573	2636
2020/04/03	11:36:00	1663	1673	2583	2654
2020/04/03	11:38:00	1661	1690	2586	2644
2020/04/03	11:40:00	1660	1688	2583	2639
2020/04/03	11:42:00	1667	1676	2593	2641
2020/04/03	11:44:00	1665	1683	2563	2634
2020/04/03	11:46:00	1665	1676	2583	2634
2020/04/03	11:48:00	1661	1666	2571	2632
2020/04/03	11:50:00	1662	1669	2590	2633
2020/04/03	11:52:00	1665	1672	2570	2642
2020/04/03	11:54:00	1668	1671	2583	2634
2020/04/03	11:56:00	1667	1675	2586	2631
2020/04/03	11:58:00	1665	1674	2573	2633
2020/04/03	12:00:00	1658	1666	2573	2633

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/05/08	16:30:00	1664	1685	2145	2260
2020/05/08	16:32:00	1659	1677	2157	2250
2020/05/08	16:34:00	1666	1686	2185	2244
2020/05/08	16:36:00	1666	1685	2151	2257
2020/05/08	16:38:00	1659	1686	2161	2267
2020/05/08	16:40:00	1661	1682	2133	2283
2020/05/08	16:42:00	1663	1685	2150	2247
2020/05/08	16:44:00	1665	1685	2138	2266
2020/05/08	16:46:00	1666	1679	2154	2266
2020/05/08	16:48:00	1675	1684	2152	2242
2020/05/08	16:50:00	1659	1686	2160	2288
2020/05/08	16:52:00	1658	1687	2139	2247
2020/05/08	16:54:00	1663	1683	2154	2247
2020/05/08	16:56:00	1668	1684	2145	2262
2020/05/08	16:58:00	1658	1685	2165	2262
2020/05/08	17:00:00	1661	1684	2165	2266
2020/05/08	17:02:00	1662	1685	2121	2269
2020/05/08	17:04:00	1670	1684	2121	2266
2020/05/08	17:06:00	1661	1681	2144	2261
2020/05/08	17:08:00	1663	1675	2155	2255
2020/05/08	17:10:00	1664	1685	2129	2264
2020/05/08	17:12:00	1664	1689	2126	2232
2020/05/08	17:14:00	1659	1689	2164	2267
2020/05/08	17:16:00	1659	1683	2129	2251
2020/05/08	17:18:00	1673	1685	2154	2269
2020/05/08	17:20:00	1664	1673	2152	2278
2020/05/08	17:22:00	1666	1681	2150	2259
2020/05/08	17:24:00	1663	1684	2147	2289
2020/05/08	17:26:00	1665	1688	2160	2266
2020/05/08	17:28:00	1669	1683	2119	2269
2020/05/08	17:30:00	1666	1675	2178	2263
2020/05/08	17:32:00	1671	1678	2141	2256
2020/05/08	17:34:00	1666	1686	2157	2263
2020/05/08	17:36:00	1664	1682	2151	2264
2020/05/08	17:38:00	1666	1675	2150	2256
2020/05/08	17:40:00	1670	1685	2136	2277
2020/05/08	17:42:00	1662	1690	2173	2276
2020/05/08	17:44:00	1659	1691	2167	2276
2020/05/08	17:46:00	1658	1685	2148	2256
2020/05/08	17:48:00	1663	1688	2172	2271
2020/05/08	17:50:00	1662	1681	2146	2233
2020/05/08	17:52:00	1663	1673	2154	2264
2020/05/08	17:54:00	1664	1690	2126	2281
2020/05/08	17:56:00	1653	1687	418	2258
2020/05/08	17:58:00	1175	1653	-6	418

2020/05/08	18:00:00	881	1175	-6	-5
2020/05/08	18:02:00	710	881	-5	-5
2020/05/08	18:04:00	587	710	-5	-5
2020/05/08	18:06:00	498	587	-5	-5
2020/05/08	18:08:00	431	498	-5	-5
2020/05/08	18:10:00	378	431	-5	-4
2020/05/08	18:12:00	334	378	-5	-4
2020/05/08	18:14:00	296	334	-5	-4
2020/05/08	18:16:00	268	296	-5	-4
2020/05/08	18:18:00	245	268	-5	-4
2020/05/08	18:20:00	226	245	-5	-4
2020/05/08	18:22:00	209	226	-5	-4
2020/05/08	18:24:00	193	209	-5	-4
2020/05/08	18:26:00	181	193	-5	-4
2020/05/08	18:28:00	171	181	-5	-4
2020/05/08	18:30:00	161	171	-5	-4
2020/05/08	18:32:00	154	161	-5	-4
2020/05/08	18:34:00	146	154	-5	-4
2020/05/08	18:36:00	140	147	-5	-4
2020/05/08	18:38:00	135	140	-5	-4
2020/05/08	18:40:00	130	135	-5	-4
2020/05/08	18:42:00	127	130	-5	-4
2020/05/08	18:44:00	123	127	-5	-4
2020/05/08	18:46:00	120	123	-5	-4
2020/05/08	18:48:00	117	120	-5	-4
2020/05/08	18:50:00	115	118	-5	-4
2020/05/08	18:52:00	113	116	-5	-4
2020/05/08	18:54:00	111	113	-4	-4
2020/05/08	18:56:00	110	111	-4	-4
2020/05/08	18:58:00	110	111	-4	-4
2020/05/08	19:00:00	110	110	-4	-4
2020/05/08	19:02:00	108	110	-4	-4
2020/05/08	19:04:00	108	109	-4	-4
2020/05/08	19:06:00	105	108	-5	-4
2020/05/08	19:08:00	103	106	-4	-4
2020/05/08	19:10:00	102	103	-4	-4
2020/05/08	19:12:00	101	103	-4	-4
2020/05/08	19:14:00	99	135	-4	3264
2020/05/08	19:16:00	135	1192	2756	3264
2020/05/08	19:18:00	1192	1405	2677	2798
2020/05/08	19:20:00	1405	1598	2564	2713
2020/05/08	19:22:00	1598	1653	2551	2632
2020/05/08	19:24:00	1607	1667	2465	2601
2020/05/08	19:26:00	1657	1684	2473	2572
2020/05/08	19:28:00	1663	1672	2448	2539
2020/05/08	19:30:00	1672	1686	2387	2506
2020/05/08	19:32:00	1661	1678	2392	2492
2020/05/08	19:34:00	1659	1688	2376	2498
2020/05/08	19:36:00	1673	1681	2367	2466
2020/05/08	19:38:00	1669	1676	2328	2467
2020/05/08	19:40:00	1664	1681	2320	2437
2020/05/08	19:42:00	1658	1692	2323	2432

2020/05/08	19:44:00	1663	1674	2312	2422
2020/05/08	19:46:00	1670	1679	2313	2406
2020/05/08	19:48:00	1666	1673	2287	2432
2020/05/08	19:50:00	1673	1680	2322	2387
2020/05/08	19:52:00	1670	1679	2294	2412
2020/05/08	19:54:00	1667	1672	2289	2411
2020/05/08	19:56:00	1664	1690	2288	2378
2020/05/08	19:58:00	1660	1683	2309	2381
2020/05/08	20:00:00	1666	1675	2279	2398
2020/05/08	20:02:00	1663	1691	2284	2380
2020/05/08	20:04:00	1662	1682	2264	2381
2020/05/08	20:06:00	1673	1683	2264	2355
2020/05/08	20:08:00	1662	1677	2264	2363
2020/05/08	20:10:00	1667	1690	2255	2375
2020/05/08	20:12:00	1663	1682	2239	2358
2020/05/08	20:14:00	1657	1690	2251	2357
2020/05/08	20:16:00	1664	1692	2255	2347
2020/05/08	20:18:00	1664	1690	2266	2371
2020/05/08	20:20:00	1656	1683	2251	2363
2020/05/08	20:22:00	1665	1681	2241	2360
2020/05/08	20:24:00	1661	1683	2235	2345
2020/05/08	20:26:00	1662	1683	2240	2347
2020/05/08	20:28:00	1663	1683	2245	2332
2020/05/08	20:30:00	1663	1684	2229	2339
2020/05/08	20:32:00	1664	1688	2217	2313
2020/05/08	20:34:00	1665	1695	2228	2349
2020/05/08	20:36:00	1662	1695	2215	2318
2020/05/08	20:38:00	1666	1681	2215	2312
2020/05/08	20:40:00	1661	1679	2212	2291
2020/05/08	20:42:00	1662	1692	2194	2301
2020/05/08	20:44:00	1661	1689	2167	2314
2020/05/08	20:46:00	1659	1680	2189	2288
2020/05/08	20:48:00	1663	1678	2172	2295
2020/05/08	20:50:00	1673	1681	2166	2324
2020/05/08	20:52:00	1657	1692	2187	2281
2020/05/08	20:54:00	1660	1689	2186	2282
2020/05/08	20:56:00	1657	1691	2189	2308
2020/05/08	20:58:00	1657	1674	2174	2306
2020/05/08	21:00:00	1674	1688	2190	2273

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/05/09	04:30:00	1676	1681	2051	2148
2020/05/09	04:32:00	1671	1677	2033	2137
2020/05/09	04:34:00	1669	1672	2029	2142
2020/05/09	04:36:00	1669	1679	2040	2152
2020/05/09	04:38:00	1670	1688	2025	2122
2020/05/09	04:40:00	1669	1679	2051	2141
2020/05/09	04:42:00	1669	1680	2020	2132
2020/05/09	04:44:00	1665	1671	2046	2147
2020/05/09	04:46:00	1667	1684	2019	2147
2020/05/09	04:48:00	1660	1679	2054	2130
2020/05/09	04:50:00	1667	1687	2054	2132
2020/05/09	04:52:00	1667	1682	2038	2144
2020/05/09	04:54:00	1672	1685	2035	2125
2020/05/09	04:56:00	1660	1674	2049	2125
2020/05/09	04:58:00	1663	1686	2035	2127
2020/05/09	05:00:00	1662	1688	2043	2114
2020/05/09	05:02:00	1660	1682	2045	2127
2020/05/09	05:04:00	1660	1689	2036	2137
2020/05/09	05:06:00	1662	1672	2031	2132
2020/05/09	05:08:00	1672	1679	2048	2131
2020/05/09	05:10:00	1670	1677	2017	2144
2020/05/09	05:12:00	1676	1679	2038	2144
2020/05/09	05:14:00	1672	1676	2035	2127
2020/05/09	05:16:00	1666	1679	2038	2119
2020/05/09	05:18:00	1664	1688	2026	2137
2020/05/09	05:20:00	1670	1688	2043	2137
2020/05/09	05:22:00	1657	1687	2038	2124
2020/05/09	05:24:00	1662	1687	2038	2144
2020/05/09	05:26:00	1669	1683	2035	2136
2020/05/09	05:28:00	1660	1683	2035	2145
2020/05/09	05:30:00	1660	1683	2036	2148
2020/05/09	05:32:00	1657	1686	2033	2131
2020/05/09	05:34:00	1657	1685	2033	2150
2020/05/09	05:36:00	1662	1679	2048	2121
2020/05/09	05:38:00	1674	1677	2030	2126
2020/05/09	05:40:00	1667	1675	2037	2116
2020/05/09	05:42:00	1667	1675	2053	2126
2020/05/09	05:44:00	1671	1675	2040	2127
2020/05/09	05:46:00	1667	1689	2036	2140
2020/05/09	05:48:00	1660	1689	2003	2137
2020/05/09	05:50:00				
2020/05/09	05:52:00				
2020/05/09	05:54:00				
2020/05/09	05:56:00	673	708	-400	101
2020/05/09	05:58:00	595	684	-2	-1

2020/05/09	06:00:00	513	595	-2	-1
2020/05/09	06:02:00	448	514	-2	-1
2020/05/09	06:04:00	396	448	-2	-1
2020/05/09	06:06:00	353	396	-2	-1
2020/05/09	06:08:00	316	353	-2	-1
2020/05/09	06:10:00	283	316	-2	-1
2020/05/09	06:12:00	249	283	-2	-1
2020/05/09	06:14:00	232	340	-2	3156
2020/05/09	06:16:00	340	1176	2410	3035
2020/05/09	06:18:00	1176	1532	2396	2528
2020/05/09	06:20:00	1532	1639	2369	2465
2020/05/09	06:22:00	1577	1683	2336	2448
2020/05/09	06:24:00	1660	1685	2296	2408
2020/05/09	06:26:00	1660	1685	2235	2372
2020/05/09	06:28:00	1660	1681	2243	2325
2020/05/09	06:30:00	1676	1680	2241	2347
2020/05/09	06:32:00	1655	1678	2205	2347
2020/05/09	06:34:00	1662	1682	2182	2314
2020/05/09	06:36:00	1660	1679	2173	2314
2020/05/09	06:38:00	1674	1681	2155	2271
2020/05/09	06:40:00	1663	1678	2152	2256
2020/05/09	06:42:00	1660	1684	2148	2266
2020/05/09	06:44:00	1665	1682	2142	2239
2020/05/09	06:46:00	1662	1686	2136	2256
2020/05/09	06:48:00	1662	1682	2144	2239
2020/05/09	06:50:00	1662	1685	2127	2243
2020/05/09	06:52:00	1665	1676	2137	2221
2020/05/09	06:54:00	1667	1680	2120	2221
2020/05/09	06:56:00	1669	1681	2126	2248
2020/05/09	06:58:00	1664	1680	2104	2213
2020/05/09	07:00:00	1667	1681	2133	2218
2020/05/09	07:02:00	1664	1676	2107	2220
2020/05/09	07:04:00	1674	1679	2115	2220
2020/05/09	07:06:00	1676	1680	2118	2221
2020/05/09	07:08:00	1660	1679	2117	2210
2020/05/09	07:10:00	1660	1675	2107	2208
2020/05/09	07:12:00	1674	1682	2109	2245
2020/05/09	07:14:00	1667	1683	2110	2227
2020/05/09	07:16:00	1664	1682	2097	2194
2020/05/09	07:18:00	1670	1681	2110	2227
2020/05/09	07:20:00	1669	1671	2117	2193
2020/05/09	07:22:00	1666	1676	2080	2194
2020/05/09	07:24:00	1676	1682	2099	2204
2020/05/09	07:26:00	1662	1677	2097	2206
2020/05/09	07:28:00	1660	1683	2098	2198
2020/05/09	07:30:00	1662	1684	2107	2181

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/05/27	17:00:00	1661	1686	2058	2132
2020/05/27	17:02:00	1671	1685	2076	2146
2020/05/27	17:04:00	1657	1689	2050	2124
2020/05/27	17:06:00	1659	1684	2056	2160
2020/05/27	17:08:00	1670	1677	2056	2160
2020/05/27	17:10:00	1669	1683	2050	2162
2020/05/27	17:12:00	1667	1673	2043	2142
2020/05/27	17:14:00	1666	1680	2076	2134
2020/05/27	17:16:00	1673	1679	2067	2148
2020/05/27	17:18:00	1672	1676	2068	2155
2020/05/27	17:20:00	1671	1677	2063	2137
2020/05/27	17:22:00	1670	1677	2050	2151
2020/05/27	17:24:00	1663	1675	2025	2153
2020/05/27	17:26:00	1669	1685	2063	2152
2020/05/27	17:28:00	1661	1686	2049	2131
2020/05/27	17:30:00	1667	1681	2058	2154
2020/05/27	17:32:00	1671	1680	2059	2140
2020/05/27	17:34:00	1670	1678	2044	2136
2020/05/27	17:36:00	1673	1678	2055	2131
2020/05/27	17:38:00	1664	1679	2047	2154
2020/05/27	17:40:00	1666	1674	2049	2145
2020/05/27	17:42:00	1673	1683	2051	2149
2020/05/27	17:44:00	1661	1684	2059	2156
2020/05/27	17:46:00	1667	1676	2058	2138
2020/05/27	17:48:00	1673	1685	2045	2149
2020/05/27	17:50:00	1665	1679	2068	2151
2020/05/27	17:52:00	1659	1686	2060	2136
2020/05/27	17:54:00	1661	1692	2063	2131
2020/05/27	17:56:00	1669	1681	2051	2148
2020/05/27	17:58:00	1661	1684	2056	2148
2020/05/27	18:00:00	1662	1693	2049	2146
2020/05/27	18:02:00	1659	1683	2042	2140
2020/05/27	18:04:00	1656	1683	2045	2159
2020/05/27	18:06:00	1662	1681	2062	2164
2020/05/27	18:08:00	1661	1683	2062	2138
2020/05/27	18:10:00	1665	1690	2047	2159
2020/05/27	18:12:00	1663	1687	2037	2151
2020/05/27	18:14:00	1658	1679	2030	2141
2020/05/27	18:16:00	1662	1687	2062	2135
2020/05/27	18:18:00	1662	1684	2052	2140
2020/05/27	18:20:00				
2020/05/27	18:22:00				
2020/05/27	18:24:00				
2020/05/27	18:26:00				
2020/05/27	18:28:00	532	576	-387	98

2020/05/27	18:30:00	503	573	-4	-4
2020/05/27	18:32:00	448	503	-4	-4
2020/05/27	18:34:00	405	448	-5	-4
2020/05/27	18:36:00	368	405	-5	-4
2020/05/27	18:38:00	335	368	-5	-4
2020/05/27	18:40:00	303	335	-5	-4
2020/05/27	18:42:00	270	303	-5	39
2020/05/27	18:44:00	263	664	39	3066
2020/05/27	18:46:00	664	1289	2341	2620
2020/05/27	18:48:00	1289	1569	2298	2419
2020/05/27	18:50:00	1569	1640	2250	2380
2020/05/27	18:52:00	1594	1668	2266	2370
2020/05/27	18:54:00	1665	1671	2264	2380
2020/05/27	18:56:00	1670	1683	2248	2375
2020/05/27	18:58:00	1668	1680	2248	2367
2020/05/27	19:00:00	1666	1677	2254	2362
2020/05/27	19:02:00	1673	1681	2253	2355
2020/05/27	19:04:00	1665	1679	2238	2324
2020/05/27	19:06:00	1658	1690	2221	2306
2020/05/27	19:08:00	1658	1689	2186	2315
2020/05/27	19:10:00	1657	1680	2175	2262
2020/05/27	19:12:00	1664	1678	2167	2270
2020/05/27	19:14:00	1672	1685	2153	2259
2020/05/27	19:16:00	1649	1685	2152	2269
2020/05/27	19:18:00	1663	1674	2155	2257
2020/05/27	19:20:00	1664	1683	2132	2249
2020/05/27	19:22:00	1671	1677	2145	2251
2020/05/27	19:24:00	1662	1676	2139	2256
2020/05/27	19:26:00	1666	1688	2137	2223
2020/05/27	19:28:00	1665	1688	2142	2228
2020/05/27	19:30:00	1665	1677	2127	2232

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/06/09	17:00:00	1665	1678	2064	2171
2020/06/09	17:02:00	1666	1688	2072	2167
2020/06/09	17:04:00	1659	1685	2079	2154
2020/06/09	17:06:00	1660	1687	2071	2181
2020/06/09	17:08:00	1662	1687	2054	2149
2020/06/09	17:10:00	1661	1682	2099	2173
2020/06/09	17:12:00	1658	1686	2067	2171
2020/06/09	17:14:00	1661	1685	2092	2166
2020/06/09	17:16:00	1659	1685	2058	2184
2020/06/09	17:18:00	1668	1684	2091	2178
2020/06/09	17:20:00	1661	1688	2084	2165
2020/06/09	17:22:00	1658	1688	2087	2168
2020/06/09	17:24:00	1663	1687	2077	2170
2020/06/09	17:26:00	1661	1686	2079	2160
2020/06/09	17:28:00	1669	1687	2069	2173
2020/06/09	17:30:00	1663	1681	2084	2168
2020/06/09	17:32:00	1662	1687	2080	2170
2020/06/09	17:34:00	1662	1687	2094	2153
2020/06/09	17:36:00	1664	1684	2084	2167
2020/06/09	17:38:00	1665	1684	2076	2175
2020/06/09	17:40:00	1662	1685	2082	2178
2020/06/09	17:42:00	1659	1687	2076	2153
2020/06/09	17:44:00	1662	1685	2086	2173
2020/06/09	17:46:00	1662	1683	2084	2162
2020/06/09	17:48:00	1658	1685	2074	2171
2020/06/09	17:50:00	1663	1683	2074	2165
2020/06/09	17:52:00	1662	1682	2087	2180
2020/06/09	17:54:00	1663	1694	2078	2173
2020/06/09	17:56:00	1659	1685	2078	2184
2020/06/09	17:58:00	1661	1689	2071	2178
2020/06/09	18:00:00	1665	1680	2059	2186
2020/06/09	18:02:00				
2020/06/09	18:04:00				
2020/06/09	18:06:00				
2020/06/09	18:08:00				
2020/06/09	18:10:00				
2020/06/09	18:12:00				
2020/06/09	18:14:00				
2020/06/09	18:16:00				
2020/06/09	18:18:00				
2020/06/09	18:20:00				
2020/06/09	18:22:00				
2020/06/09	18:24:00				
2020/06/09	18:26:00				
2020/06/09	18:28:00				

2020/06/09	18:30:00
2020/06/09	18:32:00
2020/06/09	18:34:00
2020/06/09	18:36:00
2020/06/09	18:38:00
2020/06/09	18:40:00
2020/06/09	18:42:00
2020/06/09	18:44:00
2020/06/09	18:46:00
2020/06/09	18:48:00
2020/06/09	18:50:00
2020/06/09	18:52:00
2020/06/09	18:54:00
2020/06/09	18:56:00
2020/06/09	18:58:00
2020/06/09	19:00:00
2020/06/09	19:02:00
2020/06/09	19:04:00
2020/06/09	19:06:00
2020/06/09	19:08:00
2020/06/09	19:10:00
2020/06/09	19:12:00
2020/06/09	19:14:00
2020/06/09	19:16:00
2020/06/09	19:18:00
2020/06/09	19:20:00
2020/06/09	19:22:00
2020/06/09	19:24:00
2020/06/09	19:26:00
2020/06/09	19:28:00
2020/06/09	19:30:00
2020/06/09	19:32:00
2020/06/09	19:34:00
2020/06/09	19:36:00
2020/06/09	19:38:00
2020/06/09	19:40:00
2020/06/09	19:42:00
2020/06/09	19:44:00
2020/06/09	19:46:00
2020/06/09	19:48:00
2020/06/09	19:50:00
2020/06/09	19:52:00
2020/06/09	19:54:00
2020/06/09	19:56:00
2020/06/09	19:58:00
2020/06/09	20:00:00
2020/06/09	20:02:00
2020/06/09	20:04:00
2020/06/09	20:06:00
2020/06/09	20:08:00
2020/06/09	20:10:00
2020/06/09	20:12:00

2020/06/09	20:14:00				
2020/06/09	20:16:00	84	86	-402	75
2020/06/09	20:18:00	84	86	-3	-2
2020/06/09	20:20:00	84	85	-3	-3
2020/06/09	20:22:00	84	85	-3	-3
2020/06/09	20:24:00	82	84	-3	-3
2020/06/09	20:26:00	82	83	-3	-3
2020/06/09	20:28:00	82	83	-3	-3
2020/06/09	20:30:00	82	476	-3	3226
2020/06/09	20:32:00	476	1572	2764	2988
2020/06/09	20:34:00	1505	1570	2657	2831
2020/06/09	20:36:00	1570	1640	2600	2724
2020/06/09	20:38:00	1598	1657	2530	2657
2020/06/09	20:40:00	1603	1676	2515	2617
2020/06/09	20:42:00	1660	1677	2447	2561
2020/06/09	20:44:00	1660	1683	2424	2518
2020/06/09	20:46:00	1660	1683	2402	2518
2020/06/09	20:48:00	1662	1687	2367	2465
2020/06/09	20:50:00	1659	1683	2331	2460
2020/06/09	20:52:00	1660	1683	2323	2430
2020/06/09	20:54:00	1673	1683	2308	2431
2020/06/09	20:56:00	1660	1681	2317	2402
2020/06/09	20:58:00	1662	1680	2315	2427
2020/06/09	21:00:00	1668	1680	2327	2435
2020/06/09	21:02:00	1659	1684	2309	2412
2020/06/09	21:04:00	1658	1684	2288	2412
2020/06/09	21:06:00	1660	1684	2298	2395
2020/06/09	21:08:00	1660	1685	2268	2420
2020/06/09	21:10:00	1660	1686	2243	2351
2020/06/09	21:12:00	1661	1686	2234	2348
2020/06/09	21:14:00	1662	1684	2232	2356
2020/06/09	21:16:00	1662	1683	2213	2333
2020/06/09	21:18:00	1666	1677	2234	2324
2020/06/09	21:20:00	1662	1681	2201	2324
2020/06/09	21:22:00	1662	1687	2202	2309
2020/06/09	21:24:00	1657	1683	2181	2301
2020/06/09	21:26:00	1666	1677	2198	2296
2020/06/09	21:28:00	1664	1689	2194	2298
2020/06/09	21:30:00	1664	1683	2192	2296
2020/06/09	21:32:00	1661	1686	2199	2293
2020/06/09	21:34:00	1660	1686	2167	2281
2020/06/09	21:36:00	1659	1684	2182	2271
2020/06/09	21:38:00	1660	1686	2179	2288
2020/06/09	21:40:00	1660	1681	2171	2293
2020/06/09	21:42:00	1665	1686	2169	2265
2020/06/09	21:44:00	1654	1683	2163	2273
2020/06/09	21:46:00	1658	1686	2169	2275
2020/06/09	21:48:00	1669	1680	2164	2304
2020/06/09	21:50:00	1661	1688	2128	2278
2020/06/09	21:52:00	1659	1685	2160	2264
2020/06/09	21:54:00	1676	1680	2138	2248
2020/06/09	21:56:00	1674	1679	2164	2250

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/06/30	11:00:00	1664	1690	2011	2105
2020/06/30	11:02:00	1662	1687	2009	2113
2020/06/30	11:04:00	1661	1671	2024	2118
2020/06/30	11:06:00	1671	1683	2024	2115
2020/06/30	11:08:00	1667	1676	2016	2089
2020/06/30	11:10:00	1668	1684	2002	2111
2020/06/30	11:12:00	1663	1679	2006	2100
2020/06/30	11:14:00	1663	1680	2016	2111
2020/06/30	11:16:00	1664	1680	2022	2088
2020/06/30	11:18:00	1666	1686	2027	2113
2020/06/30	11:20:00	1668	1676	2022	2119
2020/06/30	11:22:00	1668	1688	2032	2119
2020/06/30	11:24:00	1658	1684	2022	2113
2020/06/30	11:26:00	1663	1683	2031	2123
2020/06/30	11:28:00	1663	1681	2012	2121
2020/06/30	11:30:00	1661	1683	2008	2134
2020/06/30	11:32:00	1675	1684	2007	2127
2020/06/30	11:34:00	1671	1675	2025	2134
2020/06/30	11:36:00	1662	1679	2023	2155
2020/06/30	11:38:00	1670	1683	2017	2127
2020/06/30	11:40:00	1659	1676	2028	2121
2020/06/30	11:42:00	1663	1682	2025	2103
2020/06/30	11:44:00	1661	1684	2027	2111
2020/06/30	11:46:00	1663	1691	2035	2107
2020/06/30	11:48:00	1659	1683	2022	2127
2020/06/30	11:50:00	1664	1682	2027	2139
2020/06/30	11:52:00	1659	1687	2045	2119
2020/06/30	11:54:00	1668	1685	2024	2132
2020/06/30	11:56:00	1665	1684	2010	2110
2020/06/30	11:58:00	1663	1680	2047	2117
2020/06/30	12:00:00	1661	1689	2026	2135
2020/06/30	12:02:00	1663	1688	2024	2156
2020/06/30	12:04:00	1662	1685	2033	2141
2020/06/30	12:06:00	1666	1685	2041	2117
2020/06/30	12:08:00	1661	1682	2019	2138
2020/06/30	12:10:00	1666	1681	2022	2154
2020/06/30	12:12:00	1590	1676	54	2138
2020/06/30	12:14:00	1160	1590	-6	54
2020/06/30	12:16:00	849	1160	-6	-5
2020/06/30	12:18:00	648	849	-6	-5
2020/06/30	12:20:00	529	648	-6	-5
2020/06/30	12:22:00	440	529	-5	-5
2020/06/30	12:24:00	378	440	-5	-5
2020/06/30	12:26:00	325	378	-5	-5
2020/06/30	12:28:00	284	326	-5	1879

2020/06/30	12:30:00	284	1347	1879	3031
2020/06/30	12:32:00	1347	1594	2343	2472
2020/06/30	12:34:00	1594	1661	2283	2374
2020/06/30	12:36:00	1623	1686	2262	2361
2020/06/30	12:38:00	1659	1684	2234	2361
2020/06/30	12:40:00	1674	1683	2262	2385
2020/06/30	12:42:00	1666	1674	2265	2369
2020/06/30	12:44:00	1666	1677	2250	2350
2020/06/30	12:46:00	1658	1684	2253	2329
2020/06/30	12:48:00	1660	1683	2205	2343
2020/06/30	12:50:00	1664	1686	2197	2334
2020/06/30	12:52:00	1657	1684	2190	2317
2020/06/30	12:54:00	1661	1685	2192	2309
2020/06/30	12:56:00	1662	1684	2190	2289
2020/06/30	12:58:00	1663	1684	2184	2318
2020/06/30	13:00:00	1659	1685	2144	2325
2020/06/30	13:02:00	1661	1685	2180	2284
2020/06/30	13:04:00	1661	1681	2154	2293
2020/06/30	13:06:00	1659	1684	2200	2302
2020/06/30	13:08:00	1659	1681	2174	2310
2020/06/30	13:10:00	1668	1681	2195	2288
2020/06/30	13:12:00	1668	1671	2163	2297
2020/06/30	13:14:00	1666	1690	2180	2292
2020/06/30	13:16:00	1668	1688	2172	2282
2020/06/30	13:18:00	1659	1687	2168	2297
2020/06/30	13:20:00	1663	1685	2142	2300
2020/06/30	13:22:00	1663	1688	2171	2267
2020/06/30	13:24:00	1666	1686	2186	2286
2020/06/30	13:26:00	1659	1686	2155	2259
2020/06/30	13:28:00	1662	1685	2170	2270
2020/06/30	13:30:00	1663	1675	2171	2284

Kirby Canyon Recycling and Disposal Facility

		CH01 Flare F		CH02 Flare SCFM	
Date	**Time**	**MIN**	**MAX**	**MIN**	**MAX**
2020/07/12	15:30:00	1665	1686	2252	2369
2020/07/12	15:32:00	1658	1684	2290	2363
2020/07/12	15:34:00	1660	1681	2251	2378
2020/07/12	15:36:00	1663	1686	2265	2366
2020/07/12	15:38:00	1666	1675	2273	2359
2020/07/12	15:40:00	1665	1676	2273	2366
2020/07/12	15:42:00	1663	1691	2280	2368
2020/07/12	15:44:00	1663	1690	2280	2369
2020/07/12	15:46:00	1662	1678	2273	2372
2020/07/12	15:48:00	1664	1683	2293	2362
2020/07/12	15:50:00	1664	1680	2255	2366
2020/07/12	15:52:00	1670	1677	2266	2380
2020/07/12	15:54:00	1668	1683	2286	2365
2020/07/12	15:56:00	1676	1683	2253	2359
2020/07/12	15:58:00	1665	1680	2276	2370
2020/07/12	16:00:00	1659	1682	2290	2360
2020/07/12	16:02:00	1666	1683	2268	2366
2020/07/12	16:04:00	1659	1674	2263	2372
2020/07/12	16:06:00	1671	1678	2278	2370
2020/07/12	16:08:00	1677	1682	2296	2369
2020/07/12	16:10:00	1661	1681	2298	2369
2020/07/12	16:12:00	1664	1684	2290	2357
2020/07/12	16:14:00	1661	1681	2277	2369
2020/07/12	16:16:00	1667	1682	2277	2371
2020/07/12	16:18:00	1664	1683	2277	2356
2020/07/12	16:20:00	1671	1680	2275	2371
2020/07/12	16:22:00	1662	1678	2268	2364
2020/07/12	16:24:00	1673	1685	2297	2372
2020/07/12	16:26:00	1664	1673	2281	2361
2020/07/12	16:28:00	1665	1689	2268	2366
2020/07/12	16:30:00	1666	1688	2309	2364
2020/07/12	16:32:00	1678	1687	2298	2366
2020/07/12	16:34:00	1452	1678	31	2366
2020/07/12	16:36:00	1045	1452	-6	31
2020/07/12	16:38:00	795	1045	-6	-5
2020/07/12	16:40:00	643	795	-6	-5
2020/07/12	16:42:00	540	643	-5	-5
2020/07/12	16:44:00	459	540	-5	-5
2020/07/12	16:46:00	394	459	-5	-5
2020/07/12	16:48:00	342	394	-5	-5
2020/07/12	16:50:00	301	342	-5	-5
2020/07/12	16:52:00	269	301	-5	-5
2020/07/12	16:54:00	243	269	-5	-5
2020/07/12	16:56:00	221	243	-5	-5
2020/07/12	16:58:00	204	221	-5	-5
2020/07/12	17:00:00	188	204	-5	-5

2020/07/12	17:02:00	176	188	-5	-4
2020/07/12	17:04:00	164	176	-5	-4
2020/07/12	17:06:00	156	164	-5	-4
2020/07/12	17:08:00	149	156	-5	-4
2020/07/12	17:10:00	142	149	-5	-4
2020/07/12	17:12:00	137	142	-5	-4
2020/07/12	17:14:00	132	137	-5	-4
2020/07/12	17:16:00	127	132	-5	-4
2020/07/12	17:18:00	125	128	-5	-4
2020/07/12	17:20:00	122	125	-5	-4
2020/07/12	17:22:00	118	122	-5	-4
2020/07/12	17:24:00	116	119	-5	-4
2020/07/12	17:26:00	115	116	-5	-4
2020/07/12	17:28:00	113	115	-5	-4
2020/07/12	17:30:00	111	113	-5	-4
2020/07/12	17:32:00	110	111	-5	-4
2020/07/12	17:34:00	108	110	-5	-4
2020/07/12	17:36:00	108	109	-5	-4
2020/07/12	17:38:00	106	108	-5	-4
2020/07/12	17:40:00	105	106	-5	-4
2020/07/12	17:42:00	104	106	-5	-4
2020/07/12	17:44:00	103	104	-5	-4
2020/07/12	17:46:00	103	104	-5	-4
2020/07/12	17:48:00	103	103	-5	-4
2020/07/12	17:50:00	101	103	-5	-4
2020/07/12	17:52:00	101	102	-5	-4
2020/07/12	17:54:00	101	102	-5	-4
2020/07/12	17:56:00	99	101	-5	-4
2020/07/12	17:58:00	99	99	-5	-4
2020/07/12	18:00:00	98	99	-5	-4
2020/07/12	18:02:00	98	99	-5	-4
2020/07/12	18:04:00	98	99	-5	-4
2020/07/12	18:06:00	98	99	-5	-4
2020/07/12	18:08:00	98	98	-5	-4
2020/07/12	18:10:00	98	98	-5	-4
2020/07/12	18:12:00	96	98	-5	-4
2020/07/12	18:14:00	96	97	-5	-4
2020/07/12	18:16:00	96	97	-5	-4
2020/07/12	18:18:00	96	96	-5	-4
2020/07/12	18:20:00	95	96	-5	-4
2020/07/12	18:22:00	95	96	-5	-4
2020/07/12	18:24:00	96	96	-5	-4
2020/07/12	18:26:00	94	96	-5	-4
2020/07/12	18:28:00	94	94	-5	-4
2020/07/12	18:30:00	94	95	-5	-4
2020/07/12	18:32:00	94	95	-5	-4
2020/07/12	18:34:00	94	94	-5	-4
2020/07/12	18:36:00	94	94	-5	-4
2020/07/12	18:38:00	94	94	-5	-4
2020/07/12	18:40:00	94	94	-5	-4
2020/07/12	18:42:00	92	94	-5	-4
2020/07/12	18:44:00	92	92	-5	-4

2020/07/12	18:46:00	92	92	-5	-4
2020/07/12	18:48:00	91	92	-5	-4
2020/07/12	18:50:00	91	92	-5	-4
2020/07/12	18:52:00	91	96	-5	2119
2020/07/12	18:54:00	96	1027	2119	3190
2020/07/12	18:56:00	1027	1547	2752	2929
2020/07/12	18:58:00	1491	1547	2699	2783
2020/07/12	19:00:00	1497	1582	2652	2730
2020/07/12	19:02:00	1582	1633	2634	2725
2020/07/12	19:04:00	1594	1676	2609	2687
2020/07/12	19:06:00	1628	1680	2573	2642
2020/07/12	19:08:00	1656	1685	2541	2631
2020/07/12	19:10:00	1663	1684	2540	2615
2020/07/12	19:12:00	1662	1686	2518	2596
2020/07/12	19:14:00	1659	1673	2493	2572
2020/07/12	19:16:00	1673	1681	2477	2565
2020/07/12	19:18:00	1671	1680	2475	2569
2020/07/12	19:20:00	1663	1678	2468	2546
2020/07/12	19:22:00	1658	1684	2426	2536
2020/07/12	19:24:00	1659	1685	2434	2531
2020/07/12	19:26:00	1662	1688	2435	2505
2020/07/12	19:28:00	1660	1684	2402	2503
2020/07/12	19:30:00	1662	1683	2398	2507
2020/07/12	19:32:00	1662	1688	2388	2502
2020/07/12	19:34:00	1654	1687	2409	2496
2020/07/12	19:36:00	1658	1685	2382	2464
2020/07/12	19:38:00	1668	1676	2386	2476
2020/07/12	19:40:00	1666	1691	2366	2464
2020/07/12	19:42:00	1668	1679	2336	2478
2020/07/12	19:44:00	1675	1684	2378	2453
2020/07/12	19:46:00	1667	1680	2366	2456
2020/07/12	19:48:00	1657	1680	2335	2447
2020/07/12	19:50:00	1663	1683	2318	2440
2020/07/12	19:52:00	1675	1685	2335	2466
2020/07/12	19:54:00	1657	1675	2329	2451
2020/07/12	19:56:00	1675	1683	2339	2434
2020/07/12	19:58:00	1664	1677	2343	2435
2020/07/12	20:00:00	1669	1683	2337	2433

Kirby Canyon Recycling and Disposal Facility

		CH01 Flare F		CH02 Flare SCFM	
Date	**Time**	**MIN**	**MAX**	**MIN**	**MAX**
2020/08/24	18:30:00	1660	1680	2058	2150
2020/08/24	18:32:00	1664	1681	2033	2148
2020/08/24	18:34:00	1663	1682	2048	2130
2020/08/24	18:36:00	1662	1685	2043	2133
2020/08/24	18:38:00	1663	1674	2061	2107
2020/08/24	18:40:00	1661	1687	2054	2130
2020/08/24	18:42:00	1661	1684	2051	2139
2020/08/24	18:44:00	1662	1673	2051	2139
2020/08/24	18:46:00	1669	1688	2056	2118
2020/08/24	18:48:00	1668	1677	2045	2155
2020/08/24	18:50:00	1663	1680	2046	2115
2020/08/24	18:52:00	1667	1685	2041	2140
2020/08/24	18:54:00	1659	1681	2053	2115
2020/08/24	18:56:00	1663	1688	2061	2150
2020/08/24	18:58:00	1663	1684	2043	2127
2020/08/24	19:00:00	1667	1684	2020	2132
2020/08/24	19:02:00	1664	1675	2049	2121
2020/08/24	19:04:00	1665	1678	2036	2130
2020/08/24	19:06:00	1663	1690	2048	2115
2020/08/24	19:08:00	1662	1686	2040	2114
2020/08/24	19:10:00	1660	1686	2048	2113
2020/08/24	19:12:00	1665	1680	2045	2114
2020/08/24	19:14:00	1664	1670	2025	2124
2020/08/24	19:16:00	1670	1690	2037	2116
2020/08/24	19:18:00	1660	1675	2033	2111
2020/08/24	19:20:00	1663	1687	2044	2109
2020/08/24	19:22:00	1661	1679	2038	2111
2020/08/24	19:24:00	1669	1690	2032	2114
2020/08/24	19:26:00	1664	1683	2027	2098
2020/08/24	19:28:00				
2020/08/24	19:30:00				
2020/08/24	19:32:00				
2020/08/24	19:34:00				
2020/08/24	19:36:00				
2020/08/24	19:38:00				
2020/08/24	19:40:00				
2020/08/24	19:42:00				
2020/08/24	19:44:00				
2020/08/24	19:46:00				
2020/08/24	19:48:00				
2020/08/24	19:50:00				
2020/08/24	19:52:00				
2020/08/24	19:54:00				
2020/08/24	19:56:00				
2020/08/24	19:58:00				
2020/08/24	20:00:00				

2020/08/24	20:02:00				
2020/08/24	20:04:00				
2020/08/24	20:06:00				
2020/08/24	20:08:00				
2020/08/24	20:10:00				
2020/08/24	20:12:00				
2020/08/24	20:14:00				
2020/08/24	20:16:00				
2020/08/24	20:18:00				
2020/08/24	20:20:00	112	113	-401	92
2020/08/24	20:22:00	106	112	-3	19
2020/08/24	20:24:00	104	106	-3	-2
2020/08/24	20:26:00	103	457	-3	3215
2020/08/24	20:28:00	457	1453	2311	2869
2020/08/24	20:30:00	1453	1642	2339	2487
2020/08/24	20:32:00	1606	1655	2269	2377
2020/08/24	20:34:00	1655	1677	2256	2358
2020/08/24	20:36:00	1667	1674	2261	2363
2020/08/24	20:38:00	1670	1679	2247	2356
2020/08/24	20:40:00	1663	1688	2229	2344
2020/08/24	20:42:00	1659	1681	2203	2325
2020/08/24	20:44:00	1660	1686	2189	2273
2020/08/24	20:46:00	1663	1688	2159	2240
2020/08/24	20:48:00	1663	1680	2139	2245
2020/08/24	20:50:00	1671	1684	2154	2232
2020/08/24	20:52:00	1658	1683	2142	2231
2020/08/24	20:54:00	1659	1689	2129	2205
2020/08/24	20:56:00	1666	1676	2103	2199
2020/08/24	20:58:00	1676	1679	2105	2208
2020/08/24	21:00:00	1666	1677	2108	2204

Kirby Canyon Recycling and Disposal Facility

		CH01 Flare F		CH02 Flare SCFM	
Date	Time	MIN	MAX	MIN	MAX
2020/09/27	04:00:00	1662	1683	1948	2019
2020/09/27	04:02:00	1669	1681	1928	2027
2020/09/27	04:04:00	1671	1679	1942	2024
2020/09/27	04:06:00	1659	1683	1931	2030
2020/09/27	04:08:00	1661	1683	1943	2020
2020/09/27	04:10:00	1671	1681	1951	2040
2020/09/27	04:12:00	1664	1672	1938	2038
2020/09/27	04:14:00	1669	1683	1943	2020
2020/09/27	04:16:00	1655	1683	1943	2019
2020/09/27	04:18:00	1666	1681	1946	2025
2020/09/27	04:20:00	1661	1688	1941	2015
2020/09/27	04:22:00	1660	1683	1932	2026
2020/09/27	04:24:00	1659	1683	1933	2022
2020/09/27	04:26:00	1664	1677	1959	2022
2020/09/27	04:28:00	1666	1686	1931	2022
2020/09/27	04:30:00	1666	1683	1905	2029
2020/09/27	04:32:00	1663	1683	1938	2016
2020/09/27	04:34:00	1664	1681	1930	2017
2020/09/27	04:36:00	1659	1688	1936	2036
2020/09/27	04:38:00	1662	1686	1945	2013
2020/09/27	04:40:00	1662	1684	1938	2026
2020/09/27	04:42:00	1674	1681	1935	2029
2020/09/27	04:44:00	1659	1681	1938	2032
2020/09/27	04:46:00	1669	1681	1953	2030
2020/09/27	04:48:00	1659	1679	1920	2026
2020/09/27	04:50:00	1666	1686	1933	2020
2020/09/27	04:52:00	1671	1679	1946	2026
2020/09/27	04:54:00	1666	1679	1935	2041
2020/09/27	04:56:00	1669	1672	1918	2034
2020/09/27	04:58:00	1671	1676	1910	2016
2020/09/27	05:00:00	1669	1676	1948	2024
2020/09/27	05:02:00	1666	1686	1927	2026
2020/09/27	05:04:00	1666	1689	1938	2022
2020/09/27	05:06:00	1661	1688	1937	2034
2020/09/27	05:08:00	1660	1688	1925	2032
2020/09/27	05:10:00	1661	1686	1938	2019
2020/09/27	05:12:00	1661	1686	1932	2029
2020/09/27	05:14:00	1662	1686	1923	2024
2020/09/27	05:16:00	1669	1686	1936	2020
2020/09/27	05:18:00	1658	1686	1943	2019
2020/09/27	05:20:00	1658	1684	1937	2022
2020/09/27	05:22:00	1521	1681	48	2036
2020/09/27	05:24:00	1038	1521	-4	51
2020/09/27	05:26:00	776	1038	-4	-3
2020/09/27	05:28:00	618	776	-3	-3
2020/09/27	05:30:00	517	618	-4	-3

2020/09/27	05:32:00	437	517	-3	-3
2020/09/27	05:34:00	373	437	-3	-3
2020/09/27	05:36:00	323	373	-3	-3
2020/09/27	05:38:00	284	323	-3	-3
2020/09/27	05:40:00	252	284	-3	-3
2020/09/27	05:42:00	226	252	-3	-3
2020/09/27	05:44:00	204	226	-3	-3
2020/09/27	05:46:00	186	204	-3	-3
2020/09/27	05:48:00	171	186	-3	-3
2020/09/27	05:50:00	157	171	-3	-3
2020/09/27	05:52:00	147	158	-3	-3
2020/09/27	05:54:00	138	147	-3	-3
2020/09/27	05:56:00	131	138	-3	-2
2020/09/27	05:58:00	123	131	-3	-2
2020/09/27	06:00:00	118	124	-3	-2
2020/09/27	06:02:00	112	118	-3	-3
2020/09/27	06:04:00	107	112	-3	-3
2020/09/27	06:06:00	104	107	-3	-2
2020/09/27	06:08:00	100	104	-3	-2
2020/09/27	06:10:00	97	100	-3	-2
2020/09/27	06:12:00	95	97	-3	-2
2020/09/27	06:14:00	92	95	-3	-2
2020/09/27	06:16:00	91	93	-3	-2
2020/09/27	06:18:00	89	91	-3	-2
2020/09/27	06:20:00	87	89	-3	-2
2020/09/27	06:22:00	86	87	-3	-2
2020/09/27	06:24:00	85	87	-3	-2
2020/09/27	06:26:00	84	85	-3	-2
2020/09/27	06:28:00	82	84	-3	-2
2020/09/27	06:30:00	81	82	-3	-2
2020/09/27	06:32:00	80	81	-3	-2
2020/09/27	06:34:00	79	80	-3	-2
2020/09/27	06:36:00	78	79	-3	-2
2020/09/27	06:38:00	77	78	-3	-2
2020/09/27	06:40:00	75	77	-3	-2
2020/09/27	06:42:00	75	76	-3	-2
2020/09/27	06:44:00	75	76	-3	-2
2020/09/27	06:46:00	74	75	-3	-2
2020/09/27	06:48:00	74	74	-3	-2
2020/09/27	06:50:00	73	74	-3	-2
2020/09/27	06:52:00	73	74	-3	-2
2020/09/27	06:54:00	73	73	-3	-2
2020/09/27	06:56:00	72	73	-3	-2
2020/09/27	06:58:00	72	72	-3	-2
2020/09/27	07:00:00	71	72	-3	-2
2020/09/27	07:02:00	71	71	-3	-2
2020/09/27	07:04:00	70	71	-3	-2
2020/09/27	07:06:00	70	71	-3	-2
2020/09/27	07:08:00	70	70	-3	-2
2020/09/27	07:10:00	70	70	-3	-2
2020/09/27	07:12:00	70	70	-3	-2
2020/09/27	07:14:00	68	70	-3	-2

2020/09/27	07:16:00	68	70	-3	-2
2020/09/27	07:18:00	68	69	-3	-2
2020/09/27	07:20:00	68	69	-3	-2
2020/09/27	07:22:00	68	69	-3	-2
2020/09/27	07:24:00	68	69	-3	-2
2020/09/27	07:26:00	68	69	-3	-2
2020/09/27	07:28:00	68	69	-3	-2
2020/09/27	07:30:00	68	69	-3	-2
2020/09/27	07:32:00	68	69	-3	-2
2020/09/27	07:34:00	68	69	-3	-2
2020/09/27	07:36:00	68	69	-3	-2
2020/09/27	07:38:00	68	69	-3	-2
2020/09/27	07:40:00	68	68	-3	-2
2020/09/27	07:42:00	68	68	-3	19
2020/09/27	07:44:00	68	68	-3	-2
2020/09/27	07:46:00	68	68	-3	-2
2020/09/27	07:48:00	68	68	-3	-2
2020/09/27	07:50:00	68	68	-3	-2
2020/09/27	07:52:00	68	68	-3	22
2020/09/27	07:54:00	68	68	-3	-2
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2020/09/27	08:04:00	68	68	-3	23
2020/09/27	08:06:00	68	68	-3	31
2020/09/27	08:08:00	67	68	17	31
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2020/09/27	08:12:00	67	67	19	36
2020/09/27	08:14:00	67	67	22	34
2020/09/27	08:16:00	67	67	25	36
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2020/09/27	08:22:00	67	67	32	39
2020/09/27	08:24:00	67	67	31	40
2020/09/27	08:26:00	67	67	32	42
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2020/09/27	08:52:00	68	69	50	50
2020/09/27	08:54:00	68	69	50	50
2020/09/27	08:56:00	68	69	50	52
2020/09/27	08:58:00	68	69	50	52

2020/09/27	09:00:00	68	70	50	52
2020/09/27	09:02:00	68	70	50	52
2020/09/27	09:04:00	69	70	50	52
2020/09/27	09:06:00	70	70	51	52
2020/09/27	09:08:00	70	70	50	51
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2020/09/27	10:40:00	77	77	49	50
2020/09/27	10:42:00	77	77	49	51

2020/09/27	10:44:00	77	77	49	49
2020/09/27	10:46:00	77	77	49	49
2020/09/27	10:48:00	77	78	49	49
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2020/09/27	10:52:00	77	78	49	49
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2020/09/27	11:52:00	80	81	47	48
2020/09/27	11:54:00	80	82	47	48
2020/09/27	11:56:00	80	82	47	48
2020/09/27	11:58:00	82	82	47	48
2020/09/27	12:00:00	82	82	45	48
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2020/09/27	12:24:00	84	84	45	46
2020/09/27	12:26:00	84	84	45	46

2020/09/27	12:28:00	84	85	45	46
2020/09/27	12:30:00	84	85	45	46
2020/09/27	12:32:00	84	85	45	46
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2020/09/27	12:36:00	84	85	45	46
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2020/09/27	14:04:00	89	89	43	44
2020/09/27	14:06:00	89	89	43	44
2020/09/27	14:08:00	89	89	43	44
2020/09/27	14:10:00	89	89	43	44

2020/09/27	14:12:00	89	89	43	44
2020/09/27	14:14:00	89	90	43	44
2020/09/27	14:16:00	89	209	43	3108
2020/09/27	14:18:00	209	1312	2616	2980
2020/09/27	14:20:00	1312	1472	2564	2713
2020/09/27	14:22:00	1472	1635	2536	2630
2020/09/27	14:24:00	1582	1651	2485	2605
2020/09/27	14:26:00	1609	1669	2465	2570
2020/09/27	14:28:00	1657	1684	2441	2553
2020/09/27	14:30:00	1663	1674	2382	2524
2020/09/27	14:32:00	1667	1678	2380	2465
2020/09/27	14:34:00	1668	1676	2370	2484
2020/09/27	14:36:00	1676	1685	2359	2443
2020/09/27	14:38:00	1659	1678	2336	2430
2020/09/27	14:40:00	1661	1676	2333	2430
2020/09/27	14:42:00	1666	1686	2303	2388
2020/09/27	14:44:00	1665	1682	2293	2396
2020/09/27	14:46:00	1661	1685	2300	2380
2020/09/27	14:48:00	1663	1685	2291	2383
2020/09/27	14:50:00	1662	1684	2281	2379
2020/09/27	14:52:00	1663	1680	2272	2369
2020/09/27	14:54:00	1663	1670	2259	2357
2020/09/27	14:56:00	1663	1689	2258	2352
2020/09/27	14:58:00	1664	1688	2255	2378
2020/09/27	15:00:00	1663	1680	2244	2343
2020/09/27	15:02:00	1663	1686	2239	2346
2020/09/27	15:04:00	1663	1671	2237	2329
2020/09/27	15:06:00	1669	1688	2240	2326
2020/09/27	15:08:00	1662	1683	2222	2325
2020/09/27	15:10:00	1663	1679	2232	2333
2020/09/27	15:12:00	1664	1683	2247	2326
2020/09/27	15:14:00	1661	1674	2216	2338
2020/09/27	15:16:00	1662	1691	2226	2341
2020/09/27	15:18:00	1659	1684	2220	2334
2020/09/27	15:20:00	1659	1685	2220	2300
2020/09/27	15:22:00	1659	1683	2220	2309
2020/09/27	15:24:00	1674	1680	2216	2304
2020/09/27	15:26:00	1664	1677	2216	2295
2020/09/27	15:28:00	1664	1685	2188	2315
2020/09/27	15:30:00	1659	1683	2189	2293

Kirby Canyon Recycling and Disposal Facility

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2020/12/29	13:00:00	1669	1688	2096	2199
2020/12/29	13:02:00	1656	1674	2106	2187
2020/12/29	13:04:00	1661	1677	2088	2206
2020/12/29	13:06:00	1668	1677	2106	2194
2020/12/29	13:08:00	1659	1690	2103	2197
2020/12/29	13:10:00	1658	1683	2103	2189
2020/12/29	13:12:00	1664	1683	2108	2192
2020/12/29	13:14:00	1657	1681	2104	2208
2020/12/29	13:16:00	1670	1681	2099	2207
2020/12/29	13:18:00	1665	1672	2101	2185
2020/12/29	13:20:00	1669	1677	2104	2200
2020/12/29	13:22:00	1666	1685	2081	2204
2020/12/29	13:24:00	1661	1683	2091	2209
2020/12/29	13:26:00	1658	1688	2091	2202
2020/12/29	13:28:00	1660	1688	2103	2208
2020/12/29	13:30:00	1677	1684	2118	2210
2020/12/29	13:32:00	1656	1679	2099	2216
2020/12/29	13:34:00	1659	1686	2114	2215
2020/12/29	13:36:00	1667	1687	2086	2187
2020/12/29	13:38:00	1655	1685	2093	2208
2020/12/29	13:40:00	1660	1676	2096	2207
2020/12/29	13:42:00	1676	1686	2119	2197
2020/12/29	13:44:00	1452	1677	28	2215
2020/12/29	13:46:00	1057	1452	-4	28
2020/12/29	13:48:00	809	1057	-4	-3
2020/12/29	13:50:00	649	809	-4	19
2020/12/29	13:52:00	535	649	18	22
2020/12/29	13:54:00	456	535	21	23
2020/12/29	13:56:00	396	456	21	25
2020/12/29	13:58:00	346	396	20	27
2020/12/29	14:00:00	305	346	22	27
2020/12/29	14:02:00	271	305	24	27
2020/12/29	14:04:00	243	271	25	28
2020/12/29	14:06:00	217	243	25	30
2020/12/29	14:08:00	196	217	26	30
2020/12/29	14:10:00	180	196	25	30
2020/12/29	14:12:00	164	180	25	30
2020/12/29	14:14:00	152	164	25	30
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2020/12/29	14:18:00	133	141	25	32
2020/12/29	14:20:00	125	133	27	30
2020/12/29	14:22:00	117	125	25	29
2020/12/29	14:24:00	115	454	23	3545
2020/12/29	14:26:00	454	1291	2333	2814
2020/12/29	14:28:00	1232	1438	2347	2485

2020/12/29	14:30:00	1438	1601	2376	2531
2020/12/29	14:32:00	1601	1674	2392	2503
2020/12/29	14:34:00	1657	1681	2394	2508
2020/12/29	14:36:00	1663	1681	2338	2502
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2020/12/29	14:40:00	1673	1686	2348	2447
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2020/12/29	14:46:00	1664	1683	2316	2416
2020/12/29	14:48:00	1663	1689	2269	2409
2020/12/29	14:50:00	1667	1674	2292	2407
2020/12/29	14:52:00	1672	1677	2276	2401
2020/12/29	14:54:00	1676	1679	2262	2399
2020/12/29	14:56:00	1663	1679	2280	2381
2020/12/29	14:58:00	1660	1681	2266	2376
2020/12/29	15:00:00	1657	1686	2274	2373

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive
P.O. Box 1870
Morgan Hill, CA 95037
(408) 779-2206
(408) 779-5165 Fax

April 6, 2021 (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, 30-Day written report to BAAQMD Notice of Violation A-57374, Dated March 12, 2021

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting this 30-day written report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for KCRDF to Notice of Violation ("NOV") Number A-57374 dated March 12, 2021, (see attachment) for alleged temporary flare shutdown events caused by unplanned utility power outages on January 2 and 9, February 9 and 11, March 17, April 3, May 8, 9, and 27, June 9 and 30, July 12, August 24, September 27, and December 29, 2020 ("NOV Dates"). A signed copy of the NOV is attached. KCRDF Flare data for these dates is attached. The NOV alleges violation of:

1. Regulation 2, Section 1-307 "…shall not operate any…equipment…for which an authority to construct or permit to operate has been issued, in violation of any permit condition imposed pursuant to Section 2-1-403 [Permit Conditions]." ("2-1-307")
2. Regulation 1, Section 523.3 "…violation of permit conditions or District regulations to which the source is required to conform…shall be reported to the APCO within 96 hours after such occurrence…." ("1-523.3")
3. Regulation 8 Section 34-301.1 "…gas collection and emission control systems are operated continuously…" ("8-34-301.1")

Alleged violations of 2-1-307 and 1-523.3 are predicated on an alleged violation of 8-34-301.1. However, KCRDF was not in violation of 8-34-301.1. The alleged NOV Dates had unforeseeable and unpreventable power outages at KCRDF.

Regulation 8, Rule 34, Section 113 ("8-34-113") Limited Exemption, Inspection and Maintenance, states that "requirements of Sections 8-34-301…shall not apply to solid waste sites during inspection and maintenance of the landfill gas collection or emission control system…" KCRDF appropriately reported flare downtime events under 8-34-113, as each event required

inspection and maintenance during the downtime. These events were reported in KCRDF's startup and shutdown logs in its semi-annual reports. Startup could begin only after the restoration of power by the utility company and KCRDF's safety and environmental inspection and maintenance process for flare startup and emission minimization. Further, the exemption in 8-34-113 applies as KCRDF met the requirement that the "gas collection and emission control systems are not shutdown for more than 240 hours in any calendar year." As KCRDF did not violate 8-34-301.1, it also did not violate 2-1-307 nor 1-523.3.

BAAQMD's apparent interpretation that 8-34-113 does not apply where inspection and maintenance has occurred simply because an unplanned power shutoff event also occurred leads to a result that may create harm to health, safety and/or the environment. Automatically restarting flares and auxiliary equipment (blower skid, air compressor, condensate injection system, PLC and data logger, etc.) without a safety and environmental inspection and/or maintenance may cause serious health, safety and/or environmental concerns. Similarly, using an automatic backup generator would have the same concerns, with the addition of potential additional emissions associated with the generator. Further, switching between a generator and the power system creates additional downtime, as does refueling or other issues that may be associated with use of a generator.

KCRDF additionally asserts that the downtime events did not: 1) interfere with attainment of the BAAQMD, federal, or state standards; 2) endanger health, safety, or welfare of any person; 3) endanger the environment; 4) increase emissions of toxic air contaminants; 5) cause or contribute to a violation of a SAAQS or NAAQS; 6) interfere with the BAAQMD's compliance work; nor 7) result in emissions exceeding de minimis levels. Moreover, 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 but in either case, best practice requires inspection and/or maintenance prior to startup and, therefore, is reported as such.

For the above reasons, KCRDF asserts that it did not violate 2-1-307, 1-523.3 nor 8-34-301.1 and respectfully requests the NOV be rescinded.

Despite its objections, at BAAQMD's request, KCRDF has also focused its efforts toward a solution to reduce power outage downtime hours by reconfiguring the existing electrical panel for transfer switch operation and adding a backup generator to serve as an emergency power source. KCRDF has taken the following proactive steps:

- KCRDF installed a manual transfer switch to reduce the time for switching between utility power and generator.
- KCRDF procured a new emergency generator and automatic transfer switch (ATS).
- KCRDF hired a certified electrical contractor to reconfigure the existing panels to the new generator unit.
- KCRDF is currently in the process of obtaining electrical permit for the ATS from the City of San Jose, CA.

No other corrective action was necessary and not applicable. The flare was temporarily shut down solely because of an unplanned power outage and not the result of an intentional or negligent failure to maintain and operate, or an equipment malfunction. As soon as the electricity was restored, the flare was inspected and restarted. The shutdown was temporary, only a few hours, and did not result in any emissions.

KCRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation. KCRDF is committed to operating its landfill in compliance with applicable. If you have any questions or need any additional information, please do not hesitate to contact me at (408) 779-2206.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Enrique Perez
District Manager

cc: Erin Phillips, BAAQMD

Attachments: Copy of BAAQMD Notice of Violation A-57372

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
375 Beale Street, Suite 600, San Francisco, CA 94105
(415) 749-5000

NOTICE OF VIOLATION

No. A57374

ISSUED TO: Kirby Canyon Recycling and Disposal Facility ☐P ☐G ☐N# A1812

ADDRESS: 910 Coyote Creek Golf Drive

CITY: San Jose STATE: CA ZIP: 95111

PHONE: (408) 960-0769

☑ N# Mailing Address on F61

OCCURRENCE

NAME:

ADDRESS: ☑ Same As Above

CITY: ZIP

SOURCE: S# 1 NAME: Landfill with Gas Collection System

EMISSION PT: P# NAME:

DATE: 1/2/20 - 12/29/20 15 Days TIME: - HRS

☐ REG 2 RULE 1 SEC 301
No Authority to Construct

☐ REG 2 RULE 1 SEC 302
No Permit to Operate

☐ REG 1 SEC 301
H & S CODE - 41700
Public Nuisance

☑ REG 2 RULE 1 SEC 307
Failure to Meet Permit Condition

☐ REG 5 SEC 301
Prohibited Open Burning

☐ REG 6 RULE 1 SEC 301
Excessive Visible Emissions

☑ REG 8 RULE 34 SECTION 301.1 CODE

☑ REG 1 RULE SECTION 523.3 CODE

Details: Min. flare temp P.C. 1437, gas collection not operated continuously, RCA's not reported

RECIPIENT NAME: Enrique Perez

TITLE: District Manager

SIGNING THIS NOTICE IS NOT AN ADMISSION OF GUILT

X

WITHIN 10 DAYS, RETURN A COPY OF THIS NOTICE WITH A WRITTEN DESCRIPTION OF THE IMMEDIATE CORRECTIVE ACTION YOU HAVE TAKEN TO PREVENT CONTINUED OR RECURRENT VIOLATION. **THIS VIOLATION IS SUBJECT TO SUBSTANTIAL PENALTY.** YOUR RESPONSE DOES NOT PRECLUDE FURTHER LEGAL ACTION.

ISSUED BY: Erin Phillips INSP # 853

DATE: 3/12/21 TIME: 1430 HRS ☑ MAILED

PLEASE PRESS HARD

Continued On Reverse

INSTRUCTIONS

PERMIT VIOLATIONS - (REG 2, RULE 1, SECTION 301 AND/OR 302)

Within 30 days, a permit application must be submitted to the District's Permit Division. The permit application must reference the Violation Notice Number Shown on the front of this notice. If either the Violation Notice Number is not referenced or no permit application is received, then this matter will be referred to the District's Legal Department for legal action. Your response does not preclude further legal action.

If there are any questions regarding the submission of a Permit Application, call the Permit Services Division at (415) 749-4990.

ALL OTHER VIOLATIONS

Within 10 days, return a copy of this notice with a written description of the corrective action you have taken to prevent continued or recurrent violation. Immediate corrective action must be taken to stop the violation. This violation is subject to substantial penalty. Your response does not preclude further legal action.

A variance should be sought if it is necessary to continue to operate in violation of District Regulations. For information on eligiblity for, or filing of, a variance, call (415) 749-5073.

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

May 21, 2021

Mr. Raymond Salalila
Air Quality Specialist
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)-Updated

Dear Mr. Salalila:

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 June 1, 2021 through September 30, 2021, 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 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 June 1, 2021 through September 30, 2021.

The construction work will include excavation during 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 affected areas will then be backfilled. 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 crew will mobilize to the site on or around June 1, 2021. We anticipate construction activities to conclude by September 30, 2021.

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 pursuant to Regulation 8, Rule 34, Section 118. Please do not hesitate to contact me at (408) 960-0770 with any questions.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Michael L. Winter
District Engineer

CC: Loi Chau, BAAQMD
Enrique Perez, KCRDF
Bill Louis, WM

BAAQMD RULE 8-34-118 CONSTRUCTION PLAN

Kirby Canyon Recycling & Disposal Facility

LFG EXTRACTION WELLS AND PIPING CONSTRUCTION WORK

June 1, 2021 through September 30, 2021

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 twelve LFG wells and new piping, excavation, and repair of existing piping 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 twelve new LFG wells and associated piping
- Installation and tie-ins of piping at new wells
- Installation, repair, and tie-ins of piping at Well 128 and LR08
- Any other additional piping that may be required at existing wells and pipes; and
- Cut and cap below grade few 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:

- Install new collection wells.
- Install 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 June 1, 2021 through September 30, 2021, and is summarized in the table below:

Table 1 - Preliminary Construction Schedule

Task	Project Duration
Mobilize crew, equipment, and materials to site	Week 1
Installation of wells, repair and installation of piping, excavation and backfilling	Up to 16 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 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

APPROX. PROJECT LOCATION

LEGEND

1400	EXISTING 10' CONTOUR
12"	EXISTING ABOVEGROUND PIPING
12"	EXISTING BELOWGROUND PIPING
	EXISTING HORIZONTAL COLLECTOR
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

N

0 200 400

SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
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.

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 11/12/2020 | DRAWN BY GVP | DESIGNED BY CME | CHECKED BY NB | 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
2020 GCCS IMPROVEMENTS

AS-BUILT SITE PLAN

SHEET NO. 1

PROJECT NO. 200125

File: X:\PROJECTS\KIRBY CANYON\200125 - 2020 AS-BUILT UPDATE\Project Drawings\200125-KIRBY CYN_2020 FINAL AS Built_Rev201112.dwg Layout: S1 User: CHELSEA.EVANS Nov 13, 2020 - 9:38am

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive
P.O. Box 1870
Morgan Hill, CA 95037
(408) 779-2206
(408) 779-5165 Fax

July 9, 2021

Ms. Loi Chau
Air Quality Engineer
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105

Subject: Decommissioning Notification for Four Vertical Wells
Facility Number A1812
Kirby Canyon Recycling & Disposal Facility, San Jose, California

Dear Ms. Chau,

This letter is to notify the Bay Area Air Quality Management District (BAAQMD) of the decommissioning of four vertical landfill gas (LFG) wells 83, 144, 146, and 148, at the Kirby Canyon Recycling & Disposal Facility (KCRDF), pursuant to Title V Permit Condition Number 1437 Part 6, as modified by Application Number 27673. Well 144 was decommissioned on June 22, 2021, and wells 83, 146 and 148 were decommissioned on June 30, 2021.

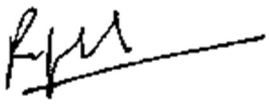
As stated in the most recent well Decommissioning notification letter submitted on March 12, 2021, there were 73 vertical LFG collection wells, 0 horizontal collectors and 3 LCRS connected to the GCCS at the KCRDF. After the completion of these well actions, the KCRDF current GCCS component count and remaining permitted actions per Application Number 27673 are listed in the following table:

Well Action Per Application #27673	**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	29	37	0	3	0	0	0
Remaining Actions	11	13	103	2	8	2	15
Current Active Well Count	**69 vertical LFG wells, 0 HC and 3 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

cc: Bill Louis, KCRDF
Mike Winter, KCRDF

APPENDIX K

WELLFIELD DEVIATION LOG

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

WELLFIELD DEVIATION REPORT

Reporting Period: From January 1 2021 through June 30, 2021

REPORT PREPARED BY: Rajan Phadnis
UPDATED DATE: July 1, 2021
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
		(%)	(%)	(%)	(%)	(°F)	(°F)	("WC)	("WC)		(Days)
KCYN0065	1/12/21 3:30 PM	56.8	43.1	0.0	0.1	95.2	102.6	0.02	-0.5	NSPS/EG CAI;Inc. Flow/Vac.	<1
Comments:Well 65 had pressure exceedance during the monitoring event in January 2021. Adjustments were made and exceedance was corrected on the same day.											
KCYN0133	1/12/21 11:47 AM	57.4	42.6	0.0	0.0	112.1	126.9	0.95	-6.6	NSPS/EG CAI;Inc. Flow/Vac.	<1
Comments:Well 133 had pressure exceedance during the monitoring event in January 2021. Adjustments were made and exceedance was corrected on the same day.											
KCYN0133	2/12/2021 11:11	56.5	43.5	0.0	0.0	97.6	109.0	0.3	-5.3	Inc. Flow/Vac.	<1
Comments:Well 133 had pressure exceedance during the monitoring event in February 2021. Adjustments were made and exceedance was corrected on the same day.											
KCYN0057	1/13/21 2:38 PM	0.0	0.4	20.7	78.9	73.1	72.8	-0.7	-0.6	NSPS/EG CAI;Fully Open;Inc. Flow/Vac.;Pinched	
KCYN0057	1/13/21 2:43 PM	0.0	0.4	20.7	78.9	71.5	71.5	-0.7	-0.7	NSPS/EG CAI;Fully Open;Inc. Flow/Vac.	
KCYN0057	1/21/21 10:50 AM	0.0	0.1	20.3	79.6	67.7	67.7	-1.2	-1.2	NSPS/EG CAI;No Adj. Made	
KCYN0057	1/21/21 10:53 AM	0.0	0.1	20.5	79.4	67.7	66.8	-1.2	-1.1	NSPS/EG CAI;Barely Open	
KCYN0057	2/12/2021 12:53	0.0	0.3	21.3	78.4	58.4	58.5	0.0	0.0	NSPS/EG CAI;Pinched	
KCYN0057	2/20/2021 15:13	1.5	2.3	21.3	74.9	61.0	60.8	-0.8	-0.7	NSPS/EG CAI	
KCYN0057	3/3/2021 12:24	55.4	44.3	0.2	0.1	139.0	139.0	-23.5	-23.5	NSPS/EG CAI;Fully Open	49
KCYN0057	3/3/2021 12:26	NSPS/EG Corrective Action Completed (CAC);NSPS/EG Parameter Corrective Action Completed (PCAC_O2);NSPS/EG Parameter Corrective Action Completed (PCAC_STATIC_PRESSURE)-Installed new jumper									
Comments:Well 57 had oxygen and pressure exceedance during the reporting period. New lateral was installed and exceedances was cleared.											
KCYN0057	2/12/2021 12:53	0.0	0.3	21.3	78.4	58.4	58.5	0.0	0.0	NSPS/EG CAI;Pinched	
KCYN0057	2/20/2021 15:13	1.5	2.3	21.3	74.9	61.0	60.8	-0.8	-0.7	NSPS/EG CAI	2
Comments:Well 57 had oxygen and pressure exceedance during February 2021 monitoring.											
KCYN0123	12/8/2020 14:37	56.3	42.6	0.0	1.1	85.4	85.4	0.9	0.9	NSPS/EG CAI;Fully Open	
KCYN0123	12/8/2020 14:39	56.6	43.4	0.0	0.0	85.6	85.6	0.9	0.9	NSPS/EG CAI;Fully Open	
KCYN0123	1/13/21 8:25 AM	57.1	42.9	0.0	0.0	68.6	69.1	0.13	0.12	NSPS/EG CAI;Fully Open;Inc. Flow/Vac.	
KCYN0123	2/12/2021 12:47	55.4	44.6	0.0	0.0	73.2	73.3	0.3	0.4	NSPS/EG CAI;Fully Open	
KCYN0123	3/3/2021 12:40	54.3	45.5	0.1	0.1	129.0	129.0	-13.0	-13.0	NSPS/EG CAI;Fully Open	85
KCYN0123	3/3/2021 12:42	NSPS/EG Corrective Action Completed (CAC);NSPS/EG Parameter Corrective Action Completed (PCAC_STATIC_PRESSURE)-Installed new jumper									
Comments:Well 123 had pressure exceedance during the monitoring event in March 2021. New lateral was installed and exceedance was cleared.											
KCYN0126	1/12/21 4:38 PM	57.2	42.8	0.0	0.0	64.0	63.8	0.2	0.2	NSPS/EG CAI;Dec. Flow/Vac.;Pinched	
KCYN0126	2/20/2021 15:05	57.1	42.9	0.0	0.0	63.5	63.4	0.5	0.6	NSPS/EG CAI;Fully Open	
KCYN0126	3/3/2021 11:50	54.5	45.3	0.1	0.1	126.0	126.0	-14.5	-14.5	NSPS/EG CAI;Fully Open	90
KCYN0126	3/8/2021 11:52	NSPS/EG Corrective Action Completed (CAC);NSPS/EG Parameter Corrective Action Completed (PCAC_STATIC_PRESSURE)-installed new jumper									
Comments:Well 126 had pressure exceedance during the reporting period. New lateral was installed and exceedance was cleared.											

EG CAI= Emissions Guidelines Corrective Action Initiated

APPENDIX L

MONTHLY LANDFILL GAS FLOW RATES

MONTHLY LFG Input to Flare (A-12) 2021

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)
January-21	744.00	12.30	731.70	2,037	46.6	89,110,744	41,552,340	42,093
February-21	672.00	13.60	658.40	1,995	46.6	78,713,770	36,704,231	37,181
March 2021[1]	743.00	3.83	739.17	2,137	46.6	94,739,710	44,177,127	44,751
April-21	720.00	3.70	716.30	2,055	46.7	88,329,113	41,227,980	41,764
May-21	744.00	0.00	744.00	2,104	46.7	93,936,627	43,884,374	44,455
June-21	720.00	13.67	706.33	2,176	46.7	92,118,497	43,034,998	43,594
January 1-June 30, 2021 Totals/Avg	**4,343.00**	**47.10**	**4,295.90**	**2,084**	**46.7**	**536,948,461**	**250,581,050**	**253,839**

NOTES:

*Methane content determined from February 25, 2021 and March 4, 2020 source test data.

[1]There were 743 hours in March 2021, 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, CA		
MONTHLY LFG Heat Input: 2020		
Month	**Monthly Total Heat Input (MMBTU)**	**12-Month Total Heat Input (MMBTU)**
July-20	44,128	556,033
August-20	42,973	552,576
September-20	41,231	548,973
October-20	42,095	548,528
November-20	40,446	546,190
December-20	44,899	542,697
January-21	42,093	532,671
February-21	37,181	521,217
March-21	44,751	513,977
April-21	41,764	506,591
May-21	44,455	507,852
June-21	43,594	509,610
MMBTU= million British thermal units		

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: January-21

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
1/1/2021	24.00	46.6	2,160	3,110,688	1,450,514	1,013.0	1,469
1/2/2021	24.00	46.6	2,154	3,101,923	1,446,427	1,013.0	1,465
1/3/2021	24.00	46.6	2,165	3,117,443	1,453,664	1,013.0	1,473
1/4/2021	24.00	46.6	2,154	3,101,777	1,446,359	1,013.0	1,465
1/5/2021	12.57	46.6	2,518	1,898,615	885,324	1,013.0	897
1/6/2021	24.00	46.6	2,350	3,384,549	1,578,215	1,013.0	1,599
1/7/2021	24.00	46.6	2,136	3,076,196	1,434,430	1,013.0	1,453
1/8/2021	24.00	46.6	2,067	2,977,011	1,388,180	1,013.0	1,406
1/9/2021	24.00	46.6	2,063	2,970,277	1,385,040	1,013.0	1,403
1/10/2021	24.00	46.6	2,058	2,964,116	1,382,167	1,013.0	1,400
1/11/2021	24.00	46.6	2,059	2,964,247	1,382,228	1,013.0	1,400
1/12/2021	24.00	46.6	2,046	2,946,289	1,373,855	1,013.0	1,392
1/13/2021	24.00	46.6	2,038	2,934,784	1,368,490	1,013.0	1,386
1/14/2021	24.00	46.6	2,036	2,931,127	1,366,785	1,013.0	1,385
1/15/2021	24.00	46.6	2,024	2,915,095	1,359,309	1,013.0	1,377
1/16/2021	24.00	46.6	2,041	2,939,375	1,370,631	1,013.0	1,388
1/17/2021	24.00	46.6	2,032	2,926,749	1,364,743	1,013.0	1,382
1/18/2021	24.00	46.6	2,025	2,915,951	1,359,708	1,013.0	1,377
1/19/2021	24.00	46.6	1,923	2,768,457	1,290,931	1,013.0	1,308
1/20/2021	23.13	46.6	1,901	2,638,146	1,230,167	1,013.0	1,246
1/21/2021	24.00	46.6	1,901	2,737,702	1,276,590	1,013.0	1,293
1/22/2021	24.00	46.6	1,869	2,691,643	1,255,113	1,013.0	1,271
1/23/2021	24.00	46.6	1,852	2,666,885	1,243,568	1,013.0	1,260
1/24/2021	24.00	46.6	1,844	2,655,165	1,238,103	1,013.0	1,254
1/25/2021	24.00	46.6	1,854	2,669,220	1,244,657	1,013.0	1,261
1/26/2021	24.00	46.6	1,871	2,694,854	1,256,610	1,013.0	1,273
1/27/2021	24.00	46.6	1,880	2,707,170	1,262,353	1,013.0	1,279
1/28/2021	24.00	46.6	1,997	2,875,242	1,340,725	1,013.0	1,358
1/29/2021	24.00	46.6	2,019	2,907,266	1,355,658	1,013.0	1,373
1/30/2021	24.00	46.6	2,043	2,941,668	1,371,700	1,013.0	1,390
1/31/2021	24.00	46.6	2,070	2,981,114	1,390,093	1,014.0	1,408
Totals/ Average:	**731.70**	**46.6**	**2,037**	**89,110,744**	**41,552,340**	1,013.0	**42,093**
						Maximum	**1,599**

NOTES:

*Starting May 2020, Methane content determined from the March 4, 2020, 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: February-21

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
2/1/2021	24.00	46.6	2,030	2,922,876	1,362,937	1,013.0	1,381
2/2/2021	24.00	46.6	1,913	2,754,203	1,284,285	1,013.0	1,301
2/3/2021	24.00	46.6	1,912	2,753,843	1,284,117	1,013.0	1,301
2/4/2021	24.00	46.6	1,919	2,763,157	1,288,460	1,013.0	1,305
2/5/2021	24.00	46.6	1,929	2,777,448	1,295,124	1,013.0	1,312
2/6/2021	24.00	46.6	1,930	2,779,777	1,296,210	1,013.0	1,313
2/7/2021	24.00	46.6	1,929	2,778,408	1,295,572	1,013.0	1,312
2/8/2021	24.00	46.6	1,920	2,764,567	1,289,118	1,013.0	1,306
2/9/2021	23.27	46.6	1,974	2,755,972	1,285,110	1,013.0	1,302
2/10/2021	24.00	46.6	2,011	2,896,166	1,350,482	1,013.0	1,368
2/11/2021	23.67	46.6	2,020	2,868,595	1,337,626	1,013.0	1,355
2/12/2021	24.00	46.6	2,032	2,925,986	1,364,387	1,013.0	1,382
2/13/2021	24.00	46.6	2,042	2,940,103	1,370,970	1,013.0	1,389
2/14/2021	24.00	46.6	2,033	2,926,984	1,364,853	1,013.0	1,383
2/15/2021	24.00	46.6	2,039	2,935,544	1,368,844	1,013.0	1,387
2/16/2021	24.00	46.6	2,029	2,922,200	1,362,622	1,013.0	1,380
2/17/2021	11.63	46.6	2,099	1,464,990	683,125	1,013.0	692
2/18/2021	24.00	46.6	2,076	2,989,251	1,393,888	1,013.0	1,412
2/19/2021	24.00	46.6	2,051	2,953,112	1,377,036	1,013.0	1,395
2/20/2021	24.00	46.6	2,007	2,890,423	1,347,804	1,013.0	1,365
2/21/2021	24.00	46.6	1,995	2,872,855	1,339,612	1,013.0	1,357
2/22/2021	24.00	46.6	2,007	2,889,373	1,347,315	1,013.0	1,365
2/23/2021	24.00	46.6	2,004	2,885,638	1,345,573	1,013.0	1,363
2/24/2021	23.83	46.6	2,007	2,869,575	1,338,083	1,013.0	1,355
2/25/2021	24.00	46.6	1,999	2,878,869	1,342,417	1,013.0	1,360
2/26/2021	24.00	46.6	1,988	2,862,008	1,334,554	1,013.0	1,352
2/27/2021	24.00	46.6	1,971	2,838,523	1,323,603	1,013.0	1,341
2/28/2021	24.00	46.6	1,981	2,853,324	1,330,505	1,013.0	1,348
Totals/ Average:	**658.40**	**46.6**	**1,995**	**78,713,770**	**36,704,231**	1,013.0	**37,181**
						Maximum	**1,412**

NOTES:

*Starting May 2020, Methane content determined from the March 4, 2020, 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: March-21

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
3/1/2021	24.00	46.6	2,020	2,909,072	1,356,500	1,013.0	1,374
3/2/2021	24.00	46.6	2,126	3,061,534	1,427,593	1,013.0	1,446
3/3/2021	24.00	46.6	2,196	3,161,595	1,474,252	1,013.0	1,493
3/4/2021	24.00	46.6	2,157	3,106,512	1,448,567	1,013.0	1,467
3/5/2021	20.17	46.6	2,211	2,675,341	1,247,512	1,013.0	1,264
3/6/2021	24.00	46.6	2,215	3,190,089	1,487,539	1,013.0	1,507
3/7/2021	24.00	46.6	2,219	3,194,978	1,489,818	1,013.0	1,509
3/8/2021	24.00	46.6	2,205	3,175,686	1,480,822	1,013.0	1,500
3/9/2021	24.00	46.6	2,171	3,126,514	1,457,893	1,013.0	1,477
3/10/2021	24.00	46.6	2,148	3,093,642	1,442,565	1,013.0	1,461
3/11/2021	24.00	46.6	2,142	3,084,837	1,438,459	1,013.0	1,457
3/12/2021	24.00	46.6	2,151	3,097,337	1,444,288	1,013.0	1,463
3/13/2021	24.00	46.6	2,148	3,092,976	1,442,255	1,013.0	1,461
3/14/2021	23.00	46.6	2,159	2,979,117	1,389,162	1,013.0	1,407
3/15/2021	24.00	46.6	2,131	3,069,108	1,431,125	1,013.0	1,450
3/16/2021	24.00	46.6	2,126	3,062,118	1,427,866	1,013.0	1,446
3/17/2021	24.00	46.6	2,115	3,045,752	1,420,234	1,013.0	1,439
3/18/2021	24.00	46.6	2,107	3,034,556	1,415,013	1,013.0	1,433
3/19/2021	24.00	46.6	2,109	3,037,261	1,416,275	1,013.0	1,435
3/20/2021	24.00	46.6	2,102	3,026,233	1,411,132	1,013.0	1,429
3/21/2021	24.00	46.6	2,107	3,034,092	1,414,797	1,013.0	1,433
3/22/2021	24.00	46.6	2,111	3,039,368	1,417,257	1,013.0	1,436
3/23/2021	24.00	46.6	2,107	3,034,273	1,414,881	1,013.0	1,433
3/24/2021	24.00	46.6	2,116	3,046,877	1,420,759	1,013.0	1,439
3/25/2021	24.00	46.6	2,106	3,032,959	1,414,269	1,013.0	1,433
3/26/2021	24.00	46.6	2,098	3,020,717	1,408,560	1,013.0	1,427
3/27/2021	24.00	46.6	2,120	3,053,120	1,423,670	1,013.0	1,442
3/28/2021	24.00	46.6	2,136	3,076,080	1,434,376	1,013.0	1,453
3/29/2021	24.00	46.6	2,122	3,055,945	1,424,987	1,013.0	1,444
3/30/2021	24.00	46.6	2,117	3,047,826	1,421,201	1,013.0	1,440
3/31/2021	24.00	46.6	2,135	3,074,195	1,433,497	1,013.0	1,452
Totals/ Average:	**739.17**	**46.6**	**2,137**	**94,739,710**	**44,177,127**	1,013.0	**44,751**
						Maximum	**1,509**

NOTES:

*Starting May 2020, Methane content determined from the March 4, 2020, 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: April-21

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
4/1/2021	24.00	46.6	2,145	3,088,679	1,440,251	1,013.0	1,459
4/2/2021	24.00	46.6	2,123	3,057,067	1,425,510	1,013.0	1,444
4/3/2021	24.00	46.6	2,107	3,034,516	1,414,995	1,013.0	1,433
4/4/2021	24.00	46.6	2,108	3,035,642	1,415,520	1,013.0	1,434
4/5/2021	24.00	46.6	2,109	3,036,747	1,416,035	1,013.0	1,434
4/6/2021	24.00	46.6	2,110	3,038,145	1,416,687	1,013.0	1,435
4/7/2021	24.00	46.6	2,103	3,028,608	1,412,240	1,013.0	1,431
4/8/2021	24.00	46.6	2,107	3,034,128	1,414,814	1,013.0	1,433
4/9/2021	24.00	46.6	2,105	3,030,635	1,413,185	1,013.0	1,432
4/10/2021	24.00	46.6	2,110	3,039,067	1,417,117	1,013.0	1,436
4/11/2021	24.00	46.6	2,113	3,042,071	1,418,518	1,013.0	1,437
4/12/2021	24.00	46.6	2,074	2,986,030	1,392,386	1,013.0	1,410
4/13/2021	24.00	46.6	2,010	2,894,259	1,349,593	1,013.0	1,367
4/14/2021	24.00	46.6	1,996	2,874,497	1,340,378	1,013.0	1,358
4/15/2021	24.00	46.7	2,006	2,888,332	1,349,342	1,013.0	1,367
4/16/2021	24.00	46.7	2,012	2,897,022	1,353,402	1,013.0	1,371
4/17/2021	24.00	46.7	2,015	2,902,283	1,355,860	1,013.0	1,373
4/18/2021	24.00	46.7	2,034	2,929,324	1,368,492	1,013.0	1,386
4/19/2021	24.00	46.7	2,028	2,920,182	1,364,221	1,013.0	1,382
4/20/2021	24.00	46.7	2,016	2,903,020	1,356,204	1,013.0	1,374
4/21/2021	24.00	46.7	2,006	2,888,783	1,349,553	1,013.0	1,367
4/22/2021	24.00	46.7	2,002	2,883,124	1,346,909	1,013.0	1,364
4/23/2021	24.00	46.7	2,006	2,888,952	1,349,632	1,013.0	1,367
4/24/2021	24.00	46.7	2,016	2,903,069	1,356,227	1,013.0	1,374
4/25/2021	24.00	46.7	2,000	2,880,556	1,345,709	1,013.0	1,363
4/26/2021	24.00	46.7	1,996	2,873,571	1,342,446	1,013.0	1,360
4/27/2021	22.23	46.7	2,035	2,714,403	1,268,088	1,013.0	1,285
4/28/2021	24.00	46.7	2,041	2,939,096	1,373,057	1,013.0	1,391
4/29/2021	24.00	46.7	2,046	2,946,936	1,376,720	1,013.0	1,395
4/30/2021	22.07	46.7	2,077	2,750,369	1,284,890	1,013.0	1,302
Totals/ Average:	**716.30**	**46.7**	**2,055**	**88,329,113**	**41,227,980**	1,013.0	**41,764**
						Maximum	**1,459**

NOTES:

*Starting May 15, 2021, Methane content determined from the February 2021, 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: May-21

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
5/1/2021	24.00	46.7	2,046	2,945,556	1,376,075	1,013.0	1,394
5/2/2021	24.00	46.7	2,034	2,928,789	1,368,242	1,013.0	1,386
5/3/2021	24.00	46.7	2,041	2,939,278	1,373,143	1,013.0	1,391
5/4/2021	24.00	46.7	2,053	2,956,468	1,381,173	1,013.0	1,399
5/5/2021	24.00	46.7	2,059	2,965,463	1,385,375	1,013.0	1,403
5/6/2021	24.00	46.7	2,031	2,924,759	1,366,360	1,013.0	1,384
5/7/2021	24.00	46.7	2,036	2,931,225	1,369,380	1,013.0	1,387
5/8/2021	24.00	46.7	2,041	2,938,589	1,372,821	1,013.0	1,391
5/9/2021	24.00	46.7	2,046	2,945,913	1,376,242	1,013.0	1,394
5/10/2021	24.00	46.7	2,041	2,939,514	1,373,253	1,013.0	1,391
5/11/2021	24.00	46.7	2,056	2,960,582	1,383,095	1,013.0	1,401
5/12/2021	24.00	46.7	2,063	2,970,196	1,387,586	1,013.0	1,406
5/13/2021	24.00	46.7	2,059	2,965,148	1,385,228	1,013.0	1,403
5/14/2021	24.00	46.7	2,048	2,949,022	1,377,695	1,013.0	1,396
5/15/2021	24.00	46.7	2,044	2,943,644	1,375,182	1,013.0	1,393
5/16/2021	24.00	46.7	2,041	2,939,198	1,373,105	1,013.0	1,391
5/17/2021	24.00	46.7	2,051	2,953,996	1,380,018	1,013.0	1,398
5/18/2021	24.00	46.7	2,061	2,968,250	1,386,677	1,013.0	1,405
5/19/2021	24.00	46.7	2,077	2,990,179	1,396,922	1,013.0	1,415
5/20/2021	24.00	46.7	2,104	3,030,416	1,415,719	1,013.0	1,434
5/21/2021	24.00	46.7	2,112	3,041,158	1,420,738	1,013.0	1,439
5/22/2021	24.00	46.7	2,121	3,054,234	1,426,846	1,013.0	1,445
5/23/2021	24.00	46.7	2,125	3,060,192	1,429,630	1,013.0	1,448
5/24/2021	24.00	46.7	2,135	3,074,570	1,436,347	1,013.0	1,455
5/25/2021	24.00	46.7	2,158	3,106,893	1,451,447	1,013.0	1,470
5/26/2021	24.00	46.7	2,192	3,156,593	1,474,666	1,013.0	1,494
5/27/2021	24.00	46.7	2,221	3,198,666	1,494,321	1,013.0	1,514
5/28/2021	24.00	46.7	2,291	3,299,721	1,541,531	1,013.0	1,562
5/29/2021	24.00	46.7	2,274	3,274,902	1,529,936	1,013.0	1,550
5/30/2021	24.00	46.7	2,283	3,287,120	1,535,644	1,013.0	1,556
5/31/2021	24.00	46.7	2,289	3,296,393	1,539,976	1,013.0	1,560
Totals/ Average:	**744.00**	**46.7**	**2,104**	**93,936,627**	**43,884,374**	1,013.0	**44,455**
						Maximum	**1,562**

NOTES:

*Starting April 15, 2021, Methane content determined from the February 2021, 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: June-21

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
6/1/2021	24.00	46.7	2,279	3,281,429	1,532,985	1,013.0	1,553
6/2/2021	24.00	46.7	2,269	3,266,727	1,526,117	1,013.0	1,546
6/3/2021	23.57	46.7	2,275	3,217,049	1,502,909	1,013.0	1,522
6/4/2021	24.00	46.7	2,285	3,290,368	1,537,161	1,013.0	1,557
6/5/2021	24.00	46.7	2,226	3,206,137	1,497,811	1,013.0	1,517
6/6/2021	24.00	46.7	2,132	3,069,673	1,434,059	1,013.0	1,453
6/7/2021	24.00	46.7	2,116	3,047,284	1,423,600	1,013.0	1,442
6/8/2021	23.77	46.7	2,114	3,015,075	1,408,553	1,013.0	1,427
6/9/2021	21.93	46.7	2,178	2,865,724	1,338,780	1,013.0	1,356
6/10/2021	24.00	46.7	2,134	3,072,944	1,435,587	1,013.0	1,454
6/11/2021	24.00	46.7	2,135	3,074,685	1,436,401	1,013.0	1,455
6/12/2021	24.00	46.7	2,146	3,090,225	1,443,660	1,013.0	1,462
6/13/2021	24.00	46.7	2,134	3,073,568	1,435,879	1,013.0	1,455
6/14/2021	24.00	46.7	2,126	3,061,591	1,430,283	1,013.0	1,449
6/15/2021	23.63	46.7	2,115	2,999,755	1,401,396	1,013.0	1,420
6/16/2021	13.43	46.7	2,320	1,870,263	873,731	1,013.0	885
6/17/2021	24.00	46.7	2,216	3,190,415	1,490,466	1,013.0	1,510
6/18/2021	24.00	46.7	2,193	3,157,331	1,475,010	1,013.0	1,494
6/19/2021	24.00	46.7	2,155	3,103,179	1,449,712	1,013.0	1,469
6/20/2021	24.00	46.7	2,141	3,083,704	1,440,614	1,013.0	1,459
6/21/2021	24.00	46.7	2,128	3,064,311	1,431,554	1,013.0	1,450
6/22/2021	24.00	46.7	2,140	3,081,524	1,439,596	1,013.0	1,458
6/23/2021	24.00	46.7	2,144	3,087,120	1,442,210	1,013.0	1,461
6/24/2021	24.00	46.7	2,138	3,078,161	1,438,024	1,013.0	1,457
6/25/2021	24.00	46.7	2,161	3,111,798	1,453,739	1,013.0	1,473
6/26/2021	24.00	46.7	2,187	3,149,612	1,471,404	1,013.0	1,491
6/27/2021	24.00	46.7	2,176	3,133,629	1,463,937	1,013.0	1,483
6/28/2021	24.00	46.7	2,171	3,126,334	1,460,529	1,013.0	1,480
6/29/2021	24.00	46.7	2,174	3,130,235	1,462,352	1,013.0	1,481
6/30/2021	24.00	46.7	2,166	3,118,647	1,456,938	1,013.0	1,476
Totals/ Average:	**706.33**	**46.7**	**2,176**	**92,118,497**	**43,034,998**	1,013.0	**43,594**
						Maximum	**1,557**

NOTES:

*Starting April 15, 2021, Methane content determined from the February 2021, 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: 2020-2021			
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-20	2.5	64,526	819,041
August-20	2.4	59,814	826,883
September-20	2.4	51,412	829,348
October-20	2.4	64,909	844,142
November-20	2.2	70,096	864,135
December-20	2.5	71,247	862,113
January-21	2.4	70,727	855,413
February-21	2.3	67,707	832,428
March-21	2.3	82,094	818,009
April-21	2.5	68,901	798,112
May-21	2.4	70,764	788,848
June-21	2.3	59,123	801,321
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)

January-21

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2021/01/01	01:38:00	2021/01/01	17:10:00	932	2.0	1860.0
2021/01/01	20:56:00	2021/01/01	23:58:00	184	2.1	381.1
2021/01/02	00:00:00	2021/01/02	12:10:00	730	2.0	1474.5
2021/01/02	16:00:00	2021/01/02	23:58:00	480	2.1	993.0
2021/01/03	00:00:00	2021/01/03	05:40:00	340	2.0	693.5
2021/01/03	09:16:00	2021/01/03	21:58:00	762	2.0	1551.6
2021/01/04	01:42:00	2021/01/04	17:30:00	948	2.0	1909.6
2021/01/04	21:16:00	2021/01/04	23:58:00	164	2.1	338.0
2021/01/05	00:00:00	2021/01/05	00:22:00	22	1.9	42.8
2021/01/05	12:02:00	2021/01/05	23:58:00	718	2.0	1417.2
2021/01/06	00:00:00	2021/01/06	04:34:00	274	1.9	527.4
2021/01/06	08:38:00	2021/01/06	16:38:00	480	2.0	957.2
2021/01/06	20:52:00	2021/01/06	23:58:00	188	2.1	387
2021/01/07	00:00:00	2021/01/07	13:34:00	814	2.0	1,628
2021/01/07	18:02:00	2021/01/07	23:58:00	358	2.0	732
2021/01/08	00:00:00	2021/01/08	15:12:00	912	2.0	1,821
2021/01/08	19:10:00	2021/01/08	23:58:00	290	2.1	595
2021/01/09	00:00:00	2021/01/09	16:36:00	996	2.0	1,991
2021/01/09	20:14:00	2021/01/09	23:58:00	226	2.0	461
2021/01/10	00:00:00	2021/01/10	17:34:00	1,054	2.0	2,072
2021/01/10	21:06:00	2021/01/10	23:58:00	174	2.0	356
2021/01/11	00:00:00	2021/01/11	17:48:00	1,068	2.0	2,116
2021/01/11	21:16:00	2021/01/11	23:58:00	164	2.0	336
2021/01/12	00:00:00	2021/01/12	16:10:00	970	2.0	1,933
2021/01/12	19:52:00	2021/01/12	23:58:00	248	2.0	502
2021/01/13	00:00:00	2021/01/13	15:56:00	956	2.0	1,891
2021/01/13	19:58:00	2021/01/13	23:58:00	242	2.0	487
2021/01/14	00:00:00	2021/01/14	15:12:00	912	2.0	1,798
2021/01/14	19:06:00	2021/01/14	23:58:00	294	2.0	586
2021/01/15	00:00:00	2021/01/15	10:38:00	638	1.9	1,244
2021/01/15	14:48:00	2021/01/15	23:58:00	552	2.0	1,076
2021/01/16	00:00:00	2021/01/16	02:18:00	138	1.9	263
2021/01/16	06:00:00	2021/01/16	18:50:00	770	1.9	1,497
2021/01/16	22:28:00	2021/01/16	23:58:00	92	2.0	186
2021/01/17	00:00:00	2021/01/17	15:30:00	930	2.0	1,827
2021/01/17	20:16:00	2021/01/17	23:58:00	224	2.0	452
2021/01/18	00:00:00	2021/01/18	10:40:00	640	1.9	1,241
2021/01/18	14:58:00	2021/01/18	23:58:00	542	2.0	1,106
2021/01/19	00:00:00	2021/01/19	00:26:00	26	1.9	50
2021/01/19	04:26:00	2021/01/19	16:40:00	734	2.0	1,459
2021/01/19	20:36:00	2021/01/19	23:58:00	204	2.0	413
2021/01/20	00:00:00	2021/01/20	12:00:00	720	2.0	1,414
2021/01/20	16:10:00	2021/01/20	23:58:00	470	2.0	940
2021/01/21	00:00:00	2021/01/21	10:06:00	606	1.9	1,167
2021/01/21	14:08:00	2021/01/21	23:58:00	592	2.0	1,168
2021/01/22	00:00:00	2021/01/22	10:52:00	652	1.9	1,246
2021/01/22	14:40:00	2021/01/22	23:58:00	560	2.0	1,094
2021/01/23	00:00:00	2021/01/23	11:06:00	666	1.9	1,272
2021/01/23	15:28:00	2021/01/23	23:58:00	512	2.0	1,012

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

January-21

2021/01/24	00:00:00	2021/01/24	11:18:00	678	1.9	1,300
2021/01/24	15:08:00	2021/01/24	23:58:00	532	2.0	1,040
2021/01/25	00:00:00	2021/01/25	11:00:00	660	1.9	1,262
2021/01/25	14:56:00	2021/01/25	23:58:00	544	2.0	1,063
2021/01/26	00:00:00	2021/01/26	19:08:00	1,148	1.9	2,200
2021/01/26	22:18:00	2021/01/26	23:58:00	102	2.0	202
2021/01/27	00:00:00	2021/01/27	23:58:00	1,440	2.0	2,811
2021/01/28	00:00:00	2021/01/28	04:24:00	264	1.9	508
2021/01/28	08:02:00	2021/01/28	23:58:00	958	1.9	1,860
2021/01/29	00:00:00	2021/01/29	02:48:00	168	1.9	318
2021/01/29	06:22:00	2021/01/29	19:50:00	808	1.9	1,555
2021/01/29	23:34:00	2021/01/29	23:58:00	26	2.0	52
2021/01/30	00:00:00	2021/01/30	13:14:00	794	1.9	1,527
2021/01/30	17:24:00	2021/01/30	23:58:00	396	2.0	782
2021/01/31	00:00:00	2021/01/31	08:12:00	492	1.9	953
2021/01/31	12:30:00	2021/01/31	23:58:00	690	1.9	1,329
Totals				**29,834**	**2.4**	**70,727**
			Maximum GPM		**2.1**	

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)

February-21

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2021/02/01	00:00:00	2021/02/01	03:14:00	194	1.9	368.2
2021/02/01	07:14:00	2021/02/01	18:24:00	670	1.9	1304.0
2021/02/01	22:02:00	2021/02/01	23:58:00	118	2.0	235.6
2021/02/02	00:00:00	2021/02/02	17:28:00	1048	2.0	2044.3
2021/02/02	21:10:00	2021/02/02	23:58:00	170	2.0	338.9
2021/02/02	00:00:00	2021/02/02	17:28:00	1048	2.0	2044.3
2021/02/02	21:10:00	2021/02/02	23:58:00	170	2.0	338.9
2021/02/03	00:00:00	2021/02/03	17:22:00	1042	2.0	2037.6
2021/02/03	20:50:00	2021/02/03	23:58:00	190	2.0	381.3
2021/02/04	00:00:00	2021/02/04	16:38:00	998	2.0	1958.3
2021/02/04	20:22:00	2021/02/04	23:58:00	218	2.0	437.9
2021/02/05	00:00:00	2021/02/05	18:06:00	1086	2.0	2130.2
2021/02/05	21:38:00	2021/02/05	23:58:00	142	2.0	290
2021/02/06	00:00:00	2021/02/06	17:00:00	1,020	2.0	2,020
2021/02/06	20:54:00	2021/02/06	23:58:00	186	2.0	379
2021/02/07	00:00:00	2021/02/07	17:24:00	1,044	2.0	2,070
2021/02/07	21:08:00	2021/02/07	23:58:00	172	2.0	352
2021/02/08	00:00:00	2021/02/08	17:42:00	1,062	2.0	2,114
2021/02/08	21:24:00	2021/02/08	23:58:00	156	2.0	320
2021/02/09	00:00:00	2021/02/09	11:18:00	678	2.0	1,363
2021/02/09	13:58:00	2021/02/09	23:58:00	602	2.0	1,229
2021/02/10	00:00:00	2021/02/10	10:36:00	636	2.0	1,282
2021/02/10	14:40:00	2021/02/10	23:58:00	560	2.0	1,146
2021/02/11	00:00:00	2021/02/11	12:26:00	746	2.0	1,484
2021/02/11	16:14:00	2021/02/11	23:58:00	466	2.1	961
2021/02/12	00:00:00	2021/02/12	16:28:00	988	2.0	1,993
2021/02/12	20:12:00	2021/02/12	23:58:00	228	2.0	465
2021/02/13	00:00:00	2021/02/13	23:34:00	1,414	2.0	2,823
2021/02/14	03:06:00	2021/02/14	23:58:00	1,254	2.0	2,507
2021/02/15	00:00:00	2021/02/15	02:58:00	178	2.0	352
2021/02/15	06:32:00	2021/02/15	23:58:00	1,048	2.0	2,099
2021/02/16	00:00:00	2021/02/16	08:42:00	522	2.0	1,027
2021/02/16	12:30:00	2021/02/16	23:58:00	690	2.0	1,385
2021/02/17	00:00:00	2021/02/17	07:34:00	454	2.0	897
2021/02/17	21:00:00	2021/02/17	23:58:00	180	2.0	361
2021/02/18	00:00:00	2021/02/18	17:02:00	1,022	2.0	2,020
2021/02/18	21:08:00	2021/02/18	23:58:00	172	2.0	345
2021/02/19	00:00:00	2021/02/19	23:58:00	1,440	1.9	2,806
2021/02/20	00:00:00	2021/02/20	03:04:00	184	1.9	351
2021/02/20	06:30:00	2021/02/20	23:58:00	1,050	2.0	2,056
2021/02/21	00:00:00	2021/02/21	12:02:00	722	1.9	1,390
2021/02/21	15:54:00	2021/02/21	23:58:00	486	2.0	970
2021/02/22	00:00:00	2021/02/22	20:18:00	1,218	2.0	2,388
2021/02/22	23:56:00	2021/02/22	23:58:00	4	2.0	8
2021/02/23	00:00:00	2021/02/23	23:58:00	1,440	2.0	2,829
2021/02/24	00:00:00	2021/02/24	02:56:00	176	1.9	337
2021/02/24	06:28:00	2021/02/24	09:32:00	184	1.9	358
2021/02/24	09:44:00	2021/02/24	10:48:00	64	1.3	85
2021/02/24	11:22:00	2021/02/24	23:58:00	758	0.9	663
2021/02/25	00:00:00	2021/02/25	11:38:00	698	1.0	684
2021/02/25	15:12:00	2021/02/25	23:58:00	528	1.6	862
2021/02/26	00:00:00	2021/02/26	23:58:00	1,440	1.6	2,332
2021/02/27	00:00:00	2021/02/27	23:58:00	1,440	1.6	2,347
2021/02/28	00:00:00	2021/02/28	23:58:00	1,440	1.6	2,337

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

February-21

Totals				**28,892**	**2.3**	**67,707**
			Maximum GPM		**2.1**	

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)

March-21

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2021/03/01	00:00:00	2021/03/01	23:58:00	1440	1.6	2359.0
2021/03/02	00:00:00	2021/03/02	23:58:00	1440	1.7	2389.9
2021/03/03	00:00:00	2021/03/03	23:58:00	1440	1.7	2415.8
2021/03/04	00:00:00	2021/03/04	23:58:00	1440	1.7	2404.1
2021/03/05	00:00:00	2021/03/05	09:36:00	576	1.7	964.5
2021/03/05	13:36:00	2021/03/05	23:58:00	624	1.7	1091.9
2021/03/06	00:00:00	2021/03/06	23:58:00	1440	2.1	2984.0
2021/03/07	00:00:00	2021/03/07	19:44:00	1184	2.3	2776.1
2021/03/07	23:16:00	2021/03/07	23:58:00	44	2.3	103.1
2021/03/08	00:00:00	2021/03/08	09:42:00	582	2.3	1324.8
2021/03/08	13:44:00	2021/03/08	23:58:00	616	2.3	1418.3
2021/03/09	00:00:00	2021/03/09	03:22:00	202	2.2	451.1
2021/03/09	06:20:00	2021/03/09	23:58:00	1,060	2.3	2,414
2021/03/10	00:00:00	2021/03/10	02:46:00	166	2.2	369
2021/03/10	05:42:00	2021/03/10	23:58:00	1,098	2.3	2,482
2021/03/11	00:00:00	2021/03/11	06:02:00	362	2.2	805
2021/03/11	09:02:00	2021/03/11	23:58:00	898	2.3	2,041
2021/03/12	00:00:00	2021/03/12	04:30:00	270	2.2	603
2021/03/12	07:28:00	2021/03/12	21:24:00	836	2.3	1,899
2021/03/13	00:26:00	2021/03/13	16:42:00	976	2.3	2,222
2021/03/13	20:08:00	2021/03/13	23:58:00	232	2.3	544
2021/03/14	00:00:00	2021/03/14	01:58:00	120	2.3	275
2021/03/14	03:00:00	2021/03/14	14:22:00	682	2.3	1,547
2021/03/14	17:40:00	2021/03/14	23:58:00	380	2.3	877
2021/03/15	00:00:00	2021/03/15	16:30:00	990	2.2	2,188
2021/03/15	19:26:00	2021/03/15	23:58:00	274	2.3	627
2021/03/16	00:00:00	2021/03/16	16:54:00	1,014	2.2	2,275
2021/03/16	20:18:00	2021/03/16	23:58:00	222	2.3	517
2021/03/17	00:00:00	2021/03/17	15:56:00	956	2.3	2,156
2021/03/17	19:30:00	2021/03/17	23:58:00	270	2.3	632
2021/03/18	00:00:00	2021/03/18	14:50:00	890	2.3	2,031
2021/03/18	18:14:00	2021/03/18	23:58:00	346	2.3	804
2021/03/19	00:00:00	2021/03/19	11:40:00	700	2.3	1,609
2021/03/19	15:06:00	2021/03/19	23:58:00	534	2.3	1,244
2021/03/20	00:00:00	2021/03/20	09:56:00	596	2.3	1,358
2021/03/20	13:18:00	2021/03/20	23:58:00	642	2.3	1,465
2021/03/21	00:00:00	2021/03/21	07:50:00	470	2.2	1,043
2021/03/21	10:56:00	2021/03/21	23:58:00	784	2.3	1,802
2021/03/22	00:00:00	2021/03/22	00:16:00	16	2.1	34
2021/03/22	03:12:00	2021/03/22	18:00:00	888	2.3	2,024
2021/03/22	21:18:00	2021/03/22	23:58:00	162	2.3	378
2021/03/23	00:00:00	2021/03/23	15:12:00	912	2.3	2,061
2021/03/23	18:44:00	2021/03/23	23:58:00	316	2.3	741
2021/03/24	00:00:00	2021/03/24	12:16:00	736	2.2	1,642
2021/03/24	15:38:00	2021/03/24	23:58:00	502	2.4	1,183
2021/03/25	00:00:00	2021/03/25	03:28:00	208	2.2	466
2021/03/25	06:36:00	2021/03/25	18:36:00	720	2.3	1,653
2021/03/25	21:50:00	2021/03/25	23:58:00	130	2.3	303
2021/03/26	00:00:00	2021/03/26	13:50:00	830	2.3	1,878

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

March-21

2021/03/26	17:24:00	2021/03/26	23:58:00	396	2.4	932
2021/03/27	00:00:00	2021/03/27	04:38:00	278	2.2	624
2021/03/27	07:42:00	2021/03/27	17:44:00	602	2.3	1,364
2021/03/27	21:46:00	2021/03/27	23:58:00	134	2.4	318
2021/03/28	00:00:00	2021/03/28	11:54:00	714	2.3	1,612
2021/03/28	15:42:00	2021/03/28	22:12:00	390	2.4	935
2021/03/29	01:26:00	2021/03/29	15:44:00	858	2.3	1,934
2021/03/29	19:54:00	2021/03/29	23:58:00	246	2.4	582
2021/03/30	00:00:00	2021/03/30	11:54:00	714	2.2	1,587
2021/03/30	15:36:00	2021/03/30	22:22:00	406	2.4	964
2021/03/31	01:36:00	2021/03/31	14:40:00	784	2.3	1,770
2021/03/31	19:52:00	2021/03/31	23:58:00	248	2.4	596
Totals				**26,958**	**3.0**	**82,094**
			Maximum GPM		**2.4**	

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.

ECYCLING & DISPOSAL FACILITY						
ATE INJECTION (A-12 Flare)						
April-21						
Start Date	**Start Time**	**End Date**	**End Time**	**Total Injection Time (min.)**	**Average GPM**	**Total Gallons**
2021/04/01	00:00:00	2021/04/01	04:50:00	290	2.3	670.7
2021/04/01	08:00:00	2021/04/01	16:40:00	520	2.3	1184.4
2021/04/01	21:50:00	2021/04/01	23:58:00	130	2.4	313.9
2021/04/02	00:00:00	2021/04/02	09:08:00	548	2.3	1259.9
2021/04/02	12:44:00	2021/04/02	18:28:00	344	2.4	810.7
2021/04/02	22:40:00	2021/04/02	23:58:00	80	2.3	187.8
2021/04/03	00:00:00	2021/04/03	12:12:00	732	2.3	1648.4
2021/04/03	16:08:00	2021/04/03	23:46:00	458	2.3	1072.4
2021/04/04	02:58:00	2021/04/04	15:22:00	744	2.3	1676.7
2021/04/04	19:18:00	2021/04/04	23:58:00	282	2.3	655.5
2021/04/05	00:00:00	2021/04/05	10:28:00	628	2.2	1385.5
2021/04/05	14:10:00	2021/04/05	21:42:00	452	2.3	1049.4
2021/04/06	00:58:00	2021/04/06	14:14:00	796	2.2	1,779
2021/04/06	18:38:00	2021/04/06	23:58:00	322	2.3	755
2021/04/07	00:00:00	2021/04/07	05:00:00	300	2.3	675
2021/04/07	08:12:00	2021/04/07	17:10:00	538	2.3	1,233
2021/04/07	21:06:00	2021/04/07	23:58:00	174	2.3	405
2021/04/08	00:00:00	2021/04/08	12:58:00	778	2.2	1,712
2021/04/08	16:44:00	2021/04/08	23:58:00	436	2.3	1,011
2021/04/09	00:00:00	2021/04/09	01:54:00	114	2.2	251
2021/04/09	05:02:00	2021/04/09	16:26:00	684	2.2	1,523
2021/04/09	20:38:00	2021/04/09	23:58:00	202	2.3	459
2021/04/10	00:00:00	2021/04/10	13:40:00	820	2.1	1,755
2021/04/10	17:36:00	2021/04/10	23:58:00	384	2.2	856
2021/04/11	00:00:00	2021/04/11	06:18:00	378	2.1	797
2021/04/11	09:24:00	2021/04/11	18:22:00	538	2.1	1,155
2021/04/11	22:18:00	2021/04/11	23:58:00	102	2.2	226
2021/04/12	00:00:00	2021/04/12	14:54:00	894	2.1	1,874
2021/04/12	19:54:00	2021/04/12	23:58:00	246	2.2	538
2021/04/13	00:00:00	2021/04/13	10:20:00	620	2.1	1,280
2021/04/13	14:12:00	2021/04/13	21:32:00	440	2.1	942
2021/04/14	00:48:00	2021/04/14	15:34:00	886	2.1	1,817
2021/04/14	20:16:00	2021/04/14	23:58:00	224	2.1	479
2021/04/15	00:00:00	2021/04/15	12:30:00	750	2.0	1,520
2021/04/15	16:28:00	2021/04/15	23:34:00	426	2.1	906
2021/04/16	02:46:00	2021/04/16	15:40:00	774	2.0	1,585
2021/04/16	20:14:00	2021/04/16	23:58:00	226	2.2	488
2021/04/17	00:00:00	2021/04/17	11:04:00	664	2.0	1,355
2021/04/17	14:48:00	2021/04/17	21:42:00	414	2.1	882
2021/04/18	01:04:00	2021/04/18	15:02:00	838	2.1	1,731
2021/04/18	20:14:00	2021/04/18	23:58:00	226	2.2	489
2021/04/19	00:00:00	2021/04/19	07:58:00	478	2.1	994
2021/04/19	11:26:00	2021/04/19	18:22:00	416	2.1	876
2021/04/19	22:42:00	2021/04/19	23:58:00	78	2.1	165
2021/04/20	00:00:00	2021/04/20	13:52:00	832	2.0	1,693
2021/04/20	18:20:00	2021/04/20	23:58:00	340	2.1	717
2021/04/21	00:00:00	2021/04/21	07:06:00	426	2.0	865
2021/04/21	10:12:00	2021/04/21	18:44:00	512	2.1	1,053
2021/04/21	22:34:00	2021/04/21	23:58:00	86	2.1	182

ECYCLING & DISPOSAL FACILITY						
ATE INJECTION (A-12 Flare)						
April-21						
2021/04/22	00:00:00	2021/04/22	14:04:00	844	2.0	1,717
2021/04/22	18:16:00	2021/04/22	23:58:00	344	2.1	725
2021/04/23	00:00:00	2021/04/23	06:16:00	376	2.0	762
2021/04/23	09:24:00	2021/04/23	18:24:00	540	2.1	1,111
2021/04/23	22:20:00	2021/04/23	23:58:00	100	2.0	204
2021/04/24	00:00:00	2021/04/24	15:08:00	908	2.0	1,792
2021/04/24	19:40:00	2021/04/24	23:58:00	260	2.1	548
2021/04/25	00:00:00	2021/04/25	11:22:00	682	2.0	1,384
2021/04/25	15:06:00	2021/04/25	23:58:00	534	2.0	1,083
2021/04/26	00:00:00	2021/04/26	11:58:00	718	2.0	1,401
2021/04/26	15:38:00	2021/04/26	23:58:00	502	2.1	1,043
2021/04/27	00:00:00	2021/04/27	06:50:00	410	1.9	799
2021/04/27	11:14:00	2021/04/27	19:08:00	474	2.2	1,035
2021/04/28	00:18:00	2021/04/28	17:36:00	1,038	2.2	2,254
2021/04/28	23:22:00	2021/04/28	23:58:00	38	2.2	85
2021/04/29	00:00:00	2021/04/29	07:30:00	450	2.2	983
2021/04/29	11:12:00	2021/04/29	20:54:00	582	2.2	1,262
2021/04/30	01:50:00	2021/04/30	06:44:00	294	2.1	612
2021/04/30	08:50:00	2021/04/30	18:24:00	574	2.0	1,159
Totals				**27,030**	**2.5**	**68,901**
			Maximum GPM		**2.3**	

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)

May-21

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2021/05/01	00:32:00	2021/05/01	07:10:00	398	2.1	816.3
2021/05/01	11:18:00	2021/05/01	20:08:00	530	2.1	1122.2
2021/05/01	23:14:00	2021/05/01	23:58:00	46	2.3	104.5
2021/05/02	00:00:00	2021/05/02	11:34:00	694	2.2	1541.8
2021/05/02	14:56:00	2021/05/02	21:40:00	404	2.3	925.1
2021/05/03	02:04:00	2021/05/03	09:58:00	474	2.4	1127.1
2021/05/03	13:48:00	2021/05/03	22:02:00	494	2.5	1240.8
2021/05/04	02:26:00	2021/05/04	09:54:00	448	2.4	1090.7
2021/05/04	13:32:00	2021/05/04	20:04:00	392	2.6	1012.2
2021/05/05	02:42:00	2021/05/05	08:40:00	358	2.5	893.5
2021/05/05	12:32:00	2021/05/05	18:54:00	382	2.6	980.3
2021/05/05	22:14:00	2021/05/05	23:58:00	106	2.6	273.3
2021/05/06	00:00:00	2021/05/06	02:40:00	160	2.5	403
2021/05/06	07:24:00	2021/05/06	15:08:00	464	2.4	1,108
2021/05/06	18:14:00	2021/05/06	23:58:00	346	2.4	845
2021/05/07	00:00:00	2021/05/07	06:36:00	396	2.3	926
2021/05/07	09:52:00	2021/05/07	18:32:00	520	2.4	1,227
2021/05/08	00:10:00	2021/05/08	07:40:00	450	2.4	1,060
2021/05/08	11:18:00	2021/05/08	22:08:00	650	2.4	1,567
2021/05/09	02:42:00	2021/05/09	11:14:00	512	2.4	1,207
2021/05/09	14:54:00	2021/05/09	21:58:00	424	2.5	1,051
2021/05/10	03:00:00	2021/05/10	11:00:00	480	2.3	1,127
2021/05/10	14:32:00	2021/05/10	21:46:00	434	2.5	1,091
2021/05/11	03:16:00	2021/05/11	12:54:00	578	2.3	1,358
2021/05/11	16:38:00	2021/05/11	22:14:00	336	2.5	851
2021/05/12	03:36:00	2021/05/12	12:04:00	508	2.4	1,196
2021/05/12	15:32:00	2021/05/12	21:38:00	366	2.5	917
2021/05/13	02:54:00	2021/05/13	11:00:00	486	2.3	1,134
2021/05/13	14:24:00	2021/05/13	22:10:00	466	2.5	1,152
2021/05/14	03:06:00	2021/05/14	10:58:00	472	2.3	1,101
2021/05/14	14:36:00	2021/05/14	23:22:00	526	2.4	1,278
2021/05/15	04:04:00	2021/05/15	14:54:00	650	2.3	1,512
2021/05/15	17:42:00	2021/05/15	23:58:00	378	2.4	919
2021/05/16	00:00:00	2021/05/16	01:02:00	62	2.3	145
2021/05/16	05:08:00	2021/05/16	19:16:00	848	2.3	1,979
2021/05/17	00:22:00	2021/05/17	11:42:00	680	2.3	1,588
2021/05/17	14:48:00	2021/05/17	20:30:00	342	2.5	849
2021/05/18	01:10:00	2021/05/18	14:20:00	790	2.4	1,865
2021/05/18	18:26:00	2021/05/18	22:56:00	270	2.5	667
2021/05/19	03:18:00	2021/05/19	13:40:00	622	2.3	1,454
2021/05/19	16:52:00	2021/05/19	23:58:00	428	2.4	1,047
2021/05/20	00:00:00	2021/05/20	02:24:00	144	2.4	339
2021/05/20	06:14:00	2021/05/20	20:58:00	884	2.3	2,071
2021/05/21	00:14:00	2021/05/21	15:14:00	900	2.3	2,077
2021/05/21	20:00:00	2021/05/21	23:58:00	240	2.4	583
2021/05/22	00:00:00	2021/05/22	09:52:00	592	2.3	1,354
2021/05/22	13:34:00	2021/05/22	18:50:00	316	2.4	764
2021/05/22	23:16:00	2021/05/22	23:58:00	44	2.4	107
2021/05/23	00:00:00	2021/05/23	12:10:00	730	2.3	1,705
2021/05/23	16:30:00	2021/05/23	21:20:00	290	2.5	714
2021/05/24	00:46:00	2021/05/24	13:18:00	752	2.3	1,766
2021/05/24	18:20:00	2021/05/24	23:58:00	340	2.4	832

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

May-21

2021/05/25	00:00:00	2021/05/25	00:28:00	28	2.3	65
2021/05/25	03:42:00	2021/05/25	14:52:00	670	2.3	1,572
2021/05/25	19:52:00	2021/05/25	23:58:00	248	2.5	612
2021/05/26	00:00:00	2021/05/26	05:00:00	300	2.4	714
2021/05/26	08:16:00	2021/05/26	16:14:00	478	2.4	1,134
2021/05/26	22:02:00	2021/05/26	23:58:00	118	2.5	297
2021/05/27	00:00:00	2021/05/27	10:46:00	646	2.4	1,555
2021/05/27	14:44:00	2021/05/27	19:12:00	268	2.5	683
2021/05/27	23:44:00	2021/05/27	23:58:00	16	2.5	40
2021/05/28	00:00:00	2021/05/28	09:48:00	588	2.4	1,438
2021/05/28	13:56:00	2021/05/28	18:12:00	256	2.5	641
2021/05/28	23:34:00	2021/05/28	23:58:00	26	2.5	65
2021/05/29	00:00:00	2021/05/29	09:52:00	592	2.3	1,387
2021/05/29	13:42:00	2021/05/29	18:06:00	264	2.4	621
2021/05/29	23:06:00	2021/05/29	23:58:00	54	2.3	127
2021/05/30	00:00:00	2021/05/30	09:00:00	540	2.3	1,221
2021/05/30	12:52:00	2021/05/30	17:32:00	280	2.3	653
2021/05/30	23:40:00	2021/05/30	23:58:00	20	2.4	49
2021/05/31	00:00:00	2021/05/31	07:50:00	470	2.4	1,133
2021/05/31	11:36:00	2021/05/31	16:28:00	292	2.4	694
Totals				**29,756**	**2.4**	**70,764**
			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.

ECYCLING & DISPOSAL FACILITY

ATE INJECTION (A-12 Flare)

June-21

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2021/06/01	00:34:00	2021/06/01	09:18:00	524	2	1282
2021/06/01	13:24:00	2021/06/01	17:32:00	248	2	614
2021/06/02	00:28:00	2021/06/02	09:16:00	528	2	1295
2021/06/02	13:24:00	2021/06/02	17:30:00	246	3	615
2021/06/03	00:10:00	2021/06/03	09:12:00	542	2	1331
2021/06/03	13:12:00	2021/06/03	17:28:00	256	3	644
2021/06/04	00:28:00	2021/06/04	08:56:00	508	2	1252
2021/06/04	12:56:00	2021/06/04	17:18:00	262	3	663
2021/06/04	23:42:00	2021/06/04	23:58:00	18	3	45
2021/06/05	00:00:00	2021/06/05	09:14:00	554	2	1359
2021/06/05	13:12:00	2021/06/05	18:06:00	294	3	743
2021/06/05	23:34:00	2021/06/05	23:58:00	26	3	66
2021/06/06	00:00:00	2021/06/06	12:38:00	758	2	1842
2021/06/06	17:16:00	2021/06/06	21:32:00	256	3	657
2021/06/07	01:08:00	2021/06/07	13:46:00	758	2	1837
2021/06/07	18:48:00	2021/06/07	23:58:00	312	2	764
2021/06/08	00:00:00	2021/06/08	05:06:00	306	2	711
2021/06/08	08:14:00	2021/06/08	11:52:00	218	2	496
2021/06/08	16:06:00	2021/06/08	19:32:00	206	2	497
2021/06/09	06:54:00	2021/06/09	07:16:00	22	2	50
2021/06/09	09:34:00	2021/06/09	23:58:00	866	2	2034
2021/06/10	00:00:00	2021/06/10	07:04:00	424	2	997
2021/06/10	11:00:00	2021/06/10	23:58:00	780	2	1859
2021/06/11	00:00:00	2021/06/11	00:10:00	10	2	21
2021/06/11	03:28:00	2021/06/11	15:10:00	702	2	1618
2021/06/11	18:08:00	2021/06/11	22:50:00	282	2	689
2021/06/12	03:26:00	2021/06/12	11:38:00	492	2	1156
2021/06/12	14:38:00	2021/06/12	21:28:00	410	2	1002
2021/06/13	02:42:00	2021/06/13	10:10:00	448	2	1070
2021/06/13	13:32:00	2021/06/13	21:08:00	456	2	1115
2021/06/14	02:30:00	2021/06/14	10:54:00	504	2	1129
2021/06/14	13:52:00	2021/06/14	19:56:00	364	2	830
2021/06/15	01:16:00	2021/06/15	09:40:00	504	2	1123
2021/06/15	12:48:00	2021/06/15	21:36:00	528	2	1201
2021/06/16	11:08:00	2021/06/16	17:18:00	370	2	835
2021/06/16	23:48:00	2021/06/16	23:58:00	12	2	28
2021/06/17	00:00:00	2021/06/17	08:20:00	500	2	1128
2021/06/17	11:44:00	2021/06/17	16:24:00	280	2	631
2021/06/18	00:44:00	2021/06/18	07:08:00	384	2	889
2021/06/18	10:52:00	2021/06/18	15:34:00	282	2	641
2021/06/19	01:00:00	2021/06/19	10:48:00	588	2	1339
2021/06/19	15:18:00	2021/06/19	18:48:00	210	2	488
2021/06/20	01:12:00	2021/06/20	11:20:00	608	2	1377
2021/06/20	16:10:00	2021/06/20	19:22:00	192	2	439
2021/06/21	01:16:00	2021/06/21	11:38:00	622	2	1375
2021/06/21	16:28:00	2021/06/21	20:10:00	222	2	505
2021/06/22	00:28:00	2021/06/22	11:00:00	632	2	1390
2021/06/22	15:32:00	2021/06/22	19:10:00	218	2	486
2021/06/23	00:14:00	2021/06/23	10:06:00	592	2	1285
2021/06/23	14:12:00	2021/06/23	18:00:00	228	2	517
2021/06/24	00:10:00	2021/06/24	09:46:00	576	2	1277
2021/06/24	13:44:00	2021/06/24	17:54:00	250	2	565
2021/06/24	23:52:00	2021/06/24	23:58:00	8	2	18
2021/06/25	00:00:00	2021/06/25	09:36:00	576	2	1268
2021/06/25	13:22:00	2021/06/25	17:50:00	268	2	604
2021/06/25	23:56:00	2021/06/25	23:58:00	4	2	9

ECYCLING & DISPOSAL FACILITY

ATE INJECTION (A-12 Flare)

June-21

2021/06/26	00:00:00	2021/06/26	09:32:00	572	2	1265
2021/06/26	13:38:00	2021/06/26	17:50:00	252	2	562
2021/06/26	23:58:00	2021/06/26	23:58:00	2	2	4
2021/06/27	00:00:00	2021/06/27	09:46:00	586	2	1297
2021/06/27	13:56:00	2021/06/27	18:10:00	254	2	571
2021/06/27	23:38:00	2021/06/27	23:58:00	22	2	49
2021/06/28	00:00:00	2021/06/28	10:40:00	640	2	1404
2021/06/28	14:56:00	2021/06/28	19:08:00	252	2	560
2021/06/29	01:28:00	2021/06/29	06:44:00	316	2	688
2021/06/29	11:12:00	2021/06/29	17:10:00	358	2	780
2021/06/29	21:44:00	2021/06/29	23:58:00	136	2	301
2021/06/30	00:00:00	2021/06/30	06:26:00	386	2	831
2021/06/30	10:14:00	2021/06/30	15:44:00	330	2	712
2021/06/30	21:02:00	2021/06/30	23:58:00	178	2	398
Totals				**25,518**	**2.3**	**59,123**
			Maximum GPM		**2.6**	

ɲ= 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

WASTE MANAGEMENT
910 Coyote Creek Golf Drive
San Jose, CA 95037

July 10, 2021

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

Re: Second Quarter 2021 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 Second Quarter 2021 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). Results for both probes and structures are summarized in Table 1. Field data are presented in Attachment B.

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.

Ms. Becky Azevedo
Date: July 10, 2021

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: Markus Bernard Date: 4/19/21 & 6/25/2021
Instrument: Gem 2000 Serial #: GM11977
Atmospheric Temperature (Deg F): 73
Barometric Pressure: 29 Inch of HG
Wind Speed: 11 Mph Wind Direction: N
Weather Condition: Clear

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	4/19/21; 1:22 PM	0	.02	Ok	Ok	
KIRBP01B	4/19/21; 1:25 PM	0	.03	Ok	Ok	
KIRBP02A	4/19/21; 1:32 PM	0	.54	Ok	Ok	
KIRBP02B	4/19/21; 1:35 PM	0	.03	Ok	Ok	
KIRBP03A	4/19/21; 1:48 PM	0	.04	Ok	Ok	
KIRBP03B	4/19/21; 1:51 PM	0	.06	Ok	Ok	
KIRBP04A	4/19/21; 2:00 PM	0	.05	Ok	Ok	
KIRBP04B	4/19/21; 2:02 PM	0	.04	Ok	Ok	
KIRBP05A	4/19/21; 2:13 PM	0	.06	Ok	Ok	
KIRBP05B	4/19/21; 2:16 PM	0	.04	Ok	Ok	
KIRBP06A	4/19/21; 2:21 PM	0	.03	Ok	Ok	
KIRBP06B	4/19/21; 2:24 PM	0	.03	Ok	Ok	
KIRBP07A	4/19/21; 2:34 PM	0	0.08	Ok	Ok	
KIRBP07B	4/19/21; 2:36 PM	0	-0.10	Ok	Ok	
KIRBP08A	4/19/21; 2:44 PM	0	.01	Ok	Ok	
KIRBP08B	4/19/21; 2:47 PM	0	.02	Ok	Ok	
KIRBP09A	4/19/21; 3:09 PM	0	.05	Ok	Ok	

Ms. Becky Azevedo
Date: July 10, 2021

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP09B	4/19/21; 3:17 PM	0	.03	Ok	Ok	
KIRBP10A	4/19/21; 12:24 PM	0	.03	Ok	Ok	
KIRBP10B	4/19/21; 12:27 PM	0	.03	Ok	Ok	
KIRBP011A	4/19/21; 12:13 PM	0	.12	Ok	Ok	
KIRBP011B	4/19/21; 12:15 PM	0	.03	Ok	Ok	
KIRBP12A	4/19/21; 12:36 PM	0	.02	Ok	Ok	
KIRBP12B	4/19/21; 12:38 PM	0	.00	Ok	Ok	
KIRBP14A	6/25/21; 5:30 PM	0	.01	Ok	Ok	
KIRBP14B	6/25/21; 5:34 PM	0	.00	Ok	Ok	
KIRBP15	4/19/21; 12:00 PM	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: Markus Bernard **Date: 6-25-21**
Instrument: FID **Serial #:0928538411**

Monitored Location	Time	PPM	Comments
Scale House	3:08 PM	0	
Admin Building	2:59PM	0	
Operations Break Trailer	3:12 PM	0	

ND = No detection
Immediately notify compliance personnel of any readings in excess of 1.25 percent methane

Ms. Becky Azevedo
Date: July 10, 2021

MONITORING EQUIPMENT AND METHODOLOGY [TITLE 27 §20934(a)(4)]

Perimeter Gas Monitoring

The facility conducted the required monitoring using a CES-Landtec GEM-2000 gas analyzer (GEM). The monitoring was conducted by Marcus Bernard on April 19, 2021 and June 25, 2021. 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

Marcus Bernard used a TVA 1000 to monitor buildings and structures to check for the presence of methane on June 25, 2021. The instrument was calibrated on June 25, 2021 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 Marcus Bernard on June 25, 2021.

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	April 19, 2021	June 25, 2021
General conditions	Cloudy	Cloudy
Avg Wind Speed (mph)	11.2	9.9
Wind Direction	NW	NW
Barometric Pressure, (Inches of Hg)	30.06	29.97
Average Ambient (Temperature Deg F) Max/Min	66/64	68/59

If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com

Thank you,
Waste Management,

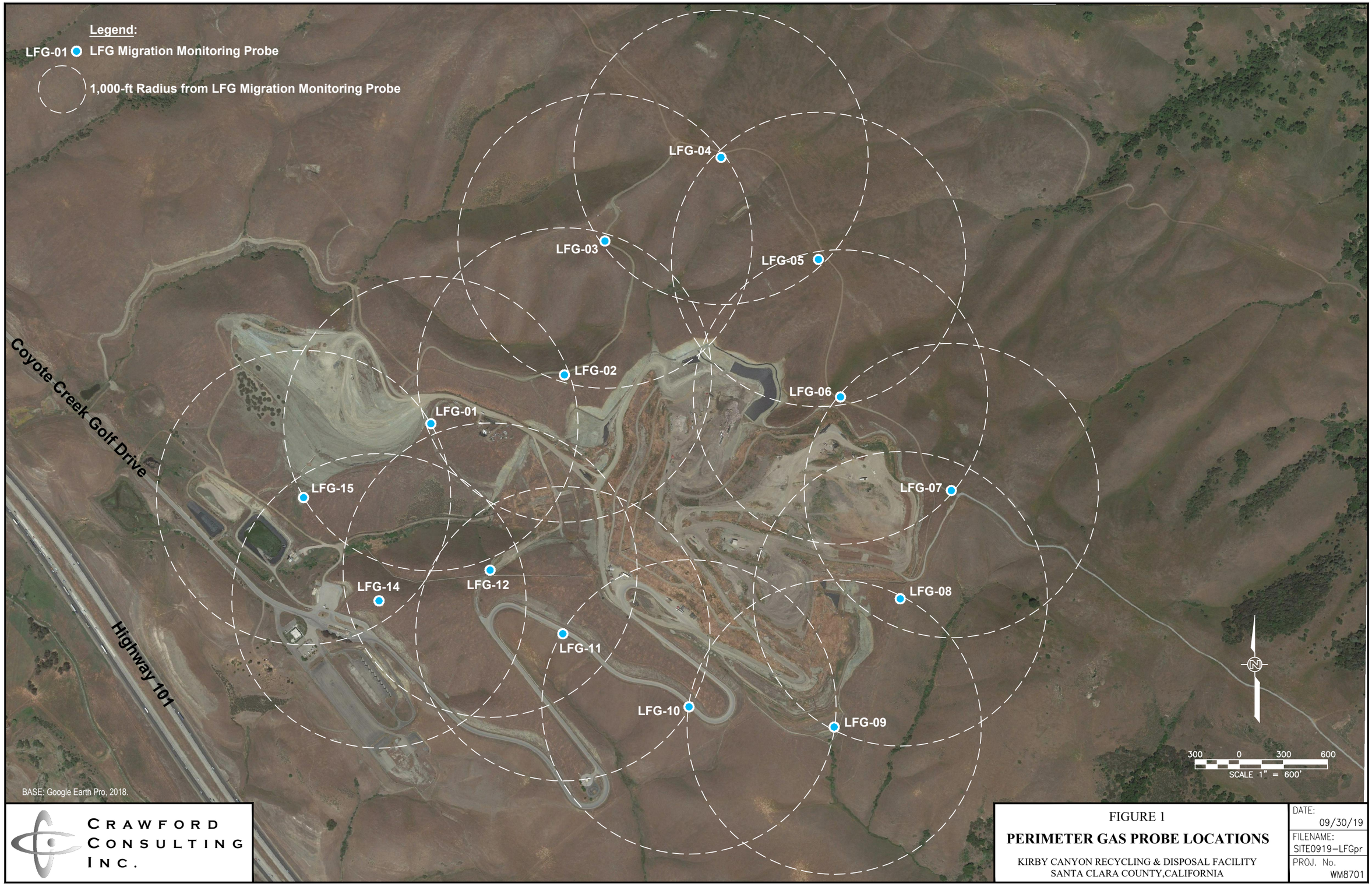
Rajan Phadnis
EP Air Specialist- Northern California-Nevada

Ms. Becky Azevedo
Date: July 10, 2021

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: 09/30/19
FILENAME: SITE0919–LFGpr
PROJ. No. WM8701

ATTACHMENT B

FIELD DATA

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: Markus Bernard Date: 4/19/21
Instrument: Gem 2000 Serial #: GM11977
Atmospheric Temperature (Deg F): 73
Barometric Pressure: 29 Inch of HG
Wind Speed: 11 Mph Wind Direction: N
Weather Condition: Clear

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	1:22 PM	0	.02	Ok	Ok	
KIRBP01B	1:25 PM	0	.03	Ok	Ok	
KIRBP02A	1:32 PM	0	.54	Ok	Ok	
KIRBP02B	1:35 PM	0	.03	Ok	Ok	
KIRBP03A	1:48 PM	0	.04	Ok	Ok	
KIRBP03B	1:51 PM	0	.06	Ok	Ok	
KIRBP04A	2:00 PM	0	.05	Ok	Ok	
KIRBP04B	2:02 PM	0	.04	Ok	Ok	
KIRBP05A	2:13 PM	0	.06	Ok	Ok	
KIRBP05B	2:16 PM	0	.04	Ok	Ok	
KIRBP06A	2:21 PM	0	.03	Ok	Ok	
KIRBP06B	2:24 PM	0	.03	Ok	Ok	
KIRBP07A	2:34 PM	0	0.08	Ok	Ok	
KIRBP07B	2:36 PM	0	-0.10	Ok	Ok	
KIRBP08A	2:44 PM	0	.01	Ok	Ok	
KIRBP08B	2:47 PM	0	.02	Ok	Ok	
KIRBP09A	3:09 PM	0	.05	Ok	Ok	
KIRBP09B	3:17 PM	0	.03	Ok	Ok	
KIRBP10A	12:24 PM	0	.03	Ok	Ok	

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP10B	12:27 PM	0	.03	Ok	Ok	
KIRBP011A	12:13 PM	0	.12	Ok	Ok	
KIRBP011B	12:15 PM	0	.03	Ok	Ok	
KIRBP12A	12:36 PM	0	.02	Ok	Ok	
KIRBP12B	12:38 PM	0	.00	Ok	Ok	
KIRBP14A	5:30 PM 6-25-21	0	.01	Ok	Ok	
KIRBP14B	5:34 PM 6-25-21	0	.00	Ok	Ok	
KIRBP15	12:00 PM	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: Markus Bernard **Date: 6-25-21**

Instrument: FID **Serial #: 0928538411**

Monitored Location	Time	PPM	Comments
Scale House	3:08 PM	0	
Admin Building	2:59PM	0	
Operations Break Trailer	3:12 PM	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: September 27, 2021

Location	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED / COMMENTS ON MONITOR CONDITION
Main Office	6-25-21	1500700087GAM	YES	Good Condition
Scale House	6-25-21	1500700088GAM	YES	Good Condition
Break Trailer	6-25-21	1500700089GAM	YES	Good Condition

** This form must be retained for 12 months after completion.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Landfill Date: 6/25/21

Time: _____ AM 2:45 PM

Instrument Make: Thermo Scientific Model: TVA 1000 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 = 500 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

Calculate Background Value:

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

Performed by: Markus Bernard

CALIBRATION PRECISION TEST RECORD

Date: 6/4/2021

Expiration Date (3 months): 9/4/2021

Time: 8:45 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: 496 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 498 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 496 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: M. Bernard

RESPONSE TIME TEST RECORD

Date: 6/4/21

Expiration Date (3 months): 9/4/21

Time: 8:50 AM _____ PM

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

Measurement #1:

Stabilized Reading Using Calibration Gas: 496 ppm
90% of the Stabilized Reading: 450 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: 498 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 5 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 496 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 5 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = 8 \text{ seconds (must be less than 30 seconds)}$$

Performed by: M. Bernard

WASTE MANAGEMENT
910 Coyote Creek Golf Drive
San Jose, CA 95037

April 9, 2021

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

Re: First Quarter 2021 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 First Quarter 2021 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). Results for both probes and structures are summarized in Table 1. Field data are presented in Attachment B.

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.

Ms. Becky Azevedo
Date: April 1, 2021

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: Markus Bernard Date: 3-10-21/ 3-12-21
Instrument: Gem 5000 Serial #: GM11977
Atmospheric Temperature (Deg F): 54 / 64
Barometric Pressure: 29 Inch of HG
Wind Speed: 10 mph/ 7 mph Wind Direction: NW/ NW
Weather Condition: Clear

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	3-10-21; 2:25 PM	0	0.10	Ok	Ok	
KIRBP01B	3-10-21; 2:27 PM	0	0.11	Ok	Ok	
KIRBP02A	3-10-21; 2:13 PM	0	.09	Ok	Ok	
KIRBP02B	3-10-21; 2:15 PM	0	0.09	Ok	Ok	
KIRBP03A	3-10-21; 2:06 PM	0	0.08	Ok	Ok	
KIRBP03B	3-12-21; 4:53 PM	0	-0.90	Ok	Ok	
KIRBP04A	3-10-21; 1:57 PM	0	0.06	Ok	Ok	
KIRBP04B	3-10-21; 2:00 PM	0	0.06	Ok	Ok	
KIRBP05A	3-10-21; 1:44 PM	0	0.06	Ok	Ok	
KIRBP05B	3-10-21; 1:48PM	0	0.02	Ok	Ok	
KIRBP06A	3-10-21; 12:13PM	0	-0.01	Ok	Ok	
KIRBP06B	3-10-21; 12:16 PM	0	0.05	Ok	Ok	
KIRBP07A	3-10-21; 12:05PM	0	0.04	Ok	Ok	
KIRBP07B	3-10-21;12:07 PM	0	0.05	Ok	Ok	
KIRBP08A	3-10-21;11:55 AM	0	0.03	Ok	Ok	
KIRBP08B	3-10-21;11:57 AM	0	0.05	Ok	Ok	
KIRBP09A	3-12-21;5:01PM	0	0.03	Ok	Ok	

Ms. Becky Azevedo
Date: April 1, 2021

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP09B	3-10-21;2:37 PM	0	0.00	Ok	Ok	
KIRBP10A	3-10-21;4:02 PM	0	0.00	Ok	Ok	
KIRBP10B	3-10-21;4:10 PM	0	0.01	Ok	Ok	
KIRBP011A	3-10-21;4:35PM	0	0.04	Ok	Ok	
KIRBP011B	3-10-21;4:37 PM	0	0.04	Ok	Ok	
KIRBP12A	3-10-21;10:51 AM	0	0.00	Ok	Ok	
KIRBP12B	3-10-21;10:53AM	0	0.00	Ok	Ok	
KIRBP14A	3-10-21;4:41PM	0	0.05	Ok	Ok	
KIRBP14B	3-10-21;4:43 PM	0	0.05	Ok	Ok	
KIRBP15	3-10-21;4:47 PM	0	0.00	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: Markus Bernard **Date: 3/11/2021**
Instrument: FID **Serial #:0928538411**

Monitored Location	Time	PPM	Comments
Scale House	9:30 AM	0	
Admin Building	9:00 AM	0	
Operations Break Trailer	9:15 AM	0	

ND = No detection

Immediately notify compliance personnel of any readings in excess of 1.25 percent methane

Ms. Becky Azevedo
Date: April 1, 2021

MONITORING EQUIPMENT AND METHODOLOGY [TITLE 27 §20934(a)(4)]

Perimeter Gas Monitoring

The facility conducted the required monitoring using a CES-Landtec GEM-2000 gas analyzer (GEM). The monitoring was conducted by Marcus Bernard on March 10 and 12, 2021. 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

Marcus Bernard used a TVA 1000 to monitor buildings and structures to check for the presence of methane on March 12, 2021. The instrument was calibrated on March 12, 2021using 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 Marcus Bernard on March 12, 2021 .

GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

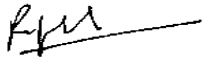
General weather conditions are the time of monitoring are presented in Table 3.

Table 3 General Weather Conditions

Description	March 10, 2021	March 12, 2021
General conditions	Cloudy	Cloudy
Avg Wind Speed (mph)	6.2	10.5
Wind Direction	ESE	NNW
Barometric Pressure, (Inches of Hg)	29.94	30.13
Average Ambient (Temperature Deg F) Max/Min	52/45	64/63

If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com

Thank you,
Waste Management,



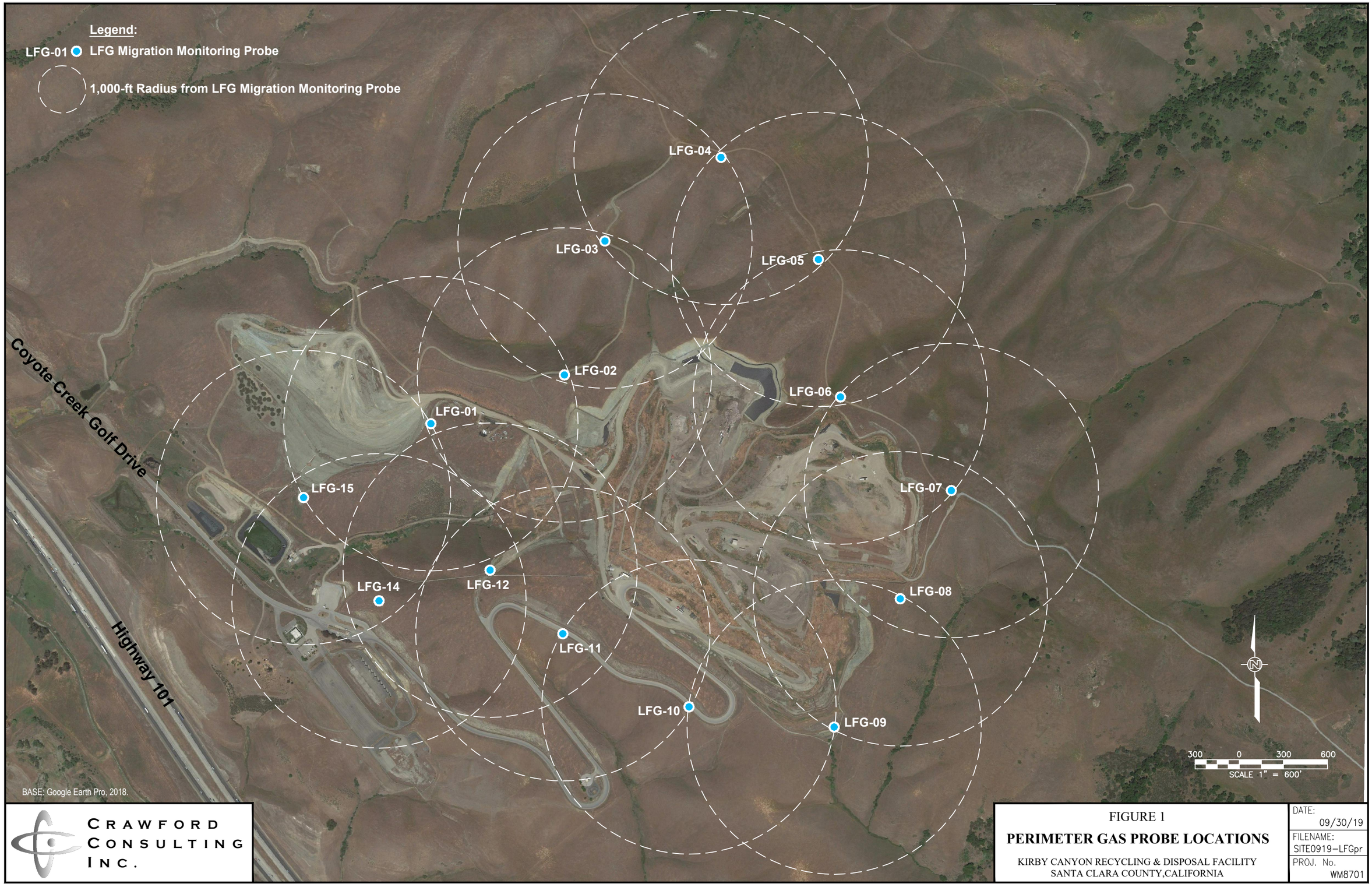
Rajan Phadnis
EP Air Specialist- Northern California-Nevada

Ms. Becky Azevedo
Date: April 1, 2021

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: 09/30/19
FILENAME: SITE0919–LFGpr
PROJ. No. WM8701

ATTACHMENT B

FIELD DATA

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: Markus Bernard Date: 3-10-21/ 3-12-21
Instrument: Gem 5000 Serial #: GM11977
Atmospheric Temperature (Deg F): 54 / 64
Barometric Pressure: 29 Inch of HG
Wind Speed: 10 mph/ 7 mph Wind Direction: NW/ NW
Weather Condition: Clear

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	2:25 PM	0	.10	Ok	Ok	
KIRBP01B	2:27 PM	0	.11	Ok	Ok	
KIRBP02A	2:13 PM	0	.09	Ok	Ok	
KIRBP02B	2:15 PM	0	.09	Ok	Ok	
KIRBP03A	2:06 PM	0	.08	Ok	Ok	
KIRBP03B	4:53 PM 3-12-21	0	-.9	Ok	Ok	
KIRBP04A	1:57 PM	0	.06	Ok	Ok	
KIRBP04B	2:00 PM	0	.06	Ok	Ok	
KIRBP05A	1:44 PM	0	.06	Ok	Ok	
KIRBP05B	1:48PM	0	.02	Ok	Ok	
KIRBP06A	12:13PM	0	-.01	Ok	Ok	
KIRBP06B	12:16 PM	0	.05	Ok	Ok	
KIRBP07A	12:05PM	0	.04	Ok	Ok	
KIRBP07B	12:07 PM	0	.05	Ok	Ok	
KIRBP08A	11:55 AM	0	.03	Ok	Ok	
KIRBP08B	11:57 AM	0	.05	Ok	Ok	
KIRBP09A	5:01PM 3-12-21	0	.03	Ok	Ok	
KIRBP09B	2:37 PM	0	.00	Ok	Ok	
KIRBP10A	4:02 PM	0	.00	Ok	Ok	

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP10B	4:10 PM	0	.01	Ok	Ok	
KIRBP011A	4:35PM	0	.04	Ok	Ok	
KIRBP011B	4:37 PM	0	.04	Ok	Ok	
KIRBP12A	10:51 AM	0	.00	Ok	Ok	
KIRBP12B	10:53AM	0	.00	Ok	Ok	
KIRBP14A	4:41PM	0	.05	Ok	Ok	
KIRBP14B	4:43 PM	0	.05	Ok	Ok	
KIRBP15	4:47PM	0	.00	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: Markus Bernard **Date: 3/11/2021**

Instrument: FID **Serial #: 0928538411**

Monitored Location	Time	PPM	Comments
Scale House	9:30 AM	0	
Admin Building	9:00AM	0	
Operations Break Trailer	9:15 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: September 27, 2021

Location	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED / COMMENTS ON MONITOR CONDITION
Main Office	3-12-21	1500700087GAM	YES	Good Condition
Scale House	3-12-21	1500700088GAM	YES	Good Condition
Break Trailer	3-12-21	1500700089GAM	YES	Good Condition

** This form must be retained for 12 months after completion.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Landfill Date: 3/11/21

Time: 8:15 AM _____ PM

Instrument Make: Thermo Scientific Model: TVA 1000 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 = 500 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 8 ppm (a)
2. Downwind Reading (highest in 30 seconds): 4 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 6 ppm

Performed by: Markus Bernard

CALIBRATION PRECISION TEST RECORD

Date: 3/3/2021

Expiration Date (3 months): 6/2/2021

Time: 8:48 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: 500 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 498 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 496 ppm (f)

Calculate Precision:

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

1.2 % (must be < than 10%)

Performed by: M. Bernard

RESPONSE TIME TEST RECORD

Date: 3/3/21

Expiration Date (3 months): 6/2/21

Time: 8:48 AM _____ PM

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

Measurement #1:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 450 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: 498 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 7 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 498 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 7 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 8 seconds (must be less than 30 seconds)

Performed by: M. Bernard

APPENDIX O

A-12 FLARE PERFORMANCE TEST SUMMARY OF RESULTS

Kirby Canyon Recycling and Disposal Facility

BAAQMD Facility # 1812

Compliance Test Report #21063
Landfill Gas Flare A-12

Located at:
Kirby Canyon Recycling and Disposal Facility
910 Coyote Creek Golf Drive
Morgan Hill, CA 95037

Prepared for:
SCS Engineers
3117 Fite Circle, Suite 108
Sacramento, CA 95827
Attn: Michael O'Connor
moconnor@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 25th, 2021

Final Report Submitted on:
April 15th, 2021

Performed and Reported by:
Blue Sky Environmental, Inc.
624 San Gabriel Avenue
Albany, CA 94706
Office (510) 508-3469/Mobile (510) 508 3469
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 (925) 338-4875.

Chuck Arrivas, QSTI

Project Manager

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 the emissions testing for Waste Management of California, Inc. (WM), at the Kirby Canyon Recycling and Disposal Facility (KCRDF), located in San Jose, California. Testing was conducted to demonstrate that Landfill Gas Flare A-12 is operating in compliance with the Bay Area Air Quality Management District (BAAQMD) permit condition 1437 for Facility 1812. Results of the test program are presented in this report. The source test information is summarized in Table 1. Test results derived from the source test are summarized in Table 2. Results for individual test runs are included in Appendix A. The flare met all compliance emission criteria.

Table 1. Source Test Information

Test Location:	Kirby Canyon Recycling and Disposal Facility (KCRDF), 910 Coyote Creek Golf Drive, Morgan Hill, CA 95037
Source Contact:	Michael O'Connor, SCS Engineers (707) 236-3791
Source Tested:	LFG Specialties, Inc. Enclosed Landfill Gas Flare A-12, 124 MMBtu/hr
Source Test Date:	February 25th, 2021
Test Objective:	Determine Compliance with Bay Area Air Quality Management District (BAAQMD) permit condition 1437 for Plant #1812; Regulation 8, Rule 34; and the State Landfill Methane Gas Rule under AB32 for Flare performance.
Test Performed By:	Blue Sky Environmental, Inc 624 San Gabriel Avenue, Albany, CA 94706 Chuck Arrivas (925) 338-4875 carrivas@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 2. Compliance Summary

Condensate On

Emission Parameter	Average Results (Condensate On)	Permit Limit	Compliance Status
NO_X, lbs/MMBtu	0.050	0.06	In Compliance
CO, lbs/MMBtu	0.003	0.3	In Compliance
SO_2, ppm	26.5	300	In Compliance
NMOC, (ppm @ 3% O_2 as CH_4)	2.45	30	In Compliance
NMOC Destruction Efficiency	99.26	>98%	In Compliance
CH_4 Destruction Efficiency	>99.98	>99%	In Compliance

Condensate Off

Emission Parameter	Average Results (Condensate Off)	Permit Limit	Compliance Status
NO_X, lbs/MMBtu	0.039	0.06	In Compliance
CO, lbs/MMBtu	0.004	0.3	In Compliance
SO_2, ppm	32.2	300	In Compliance
NMOC, (ppm @ 3% O_2 as CH_4)	2.35	30	In Compliance
NMOC Destruction Efficiency	99.38	>98%	In Compliance
CH_4 Destruction Efficiency	>99.98	>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 Bay Area Air Quality Management District (BAAQMD) permit condition #1437 for Facility #1812 and 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, part 16.4	Moisture Calculation
EPA Method 18	CH_4, THC, NMOC
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(s)

Testing was conducted on February 25th, 2021.

2.4. Sampling and Observing Personnel

Testing was conducted by Chuck Arrivas and Guy Worthington, representing Blue Sky Environmental, Inc.

Rajan Phadnis, Bill Louis and Marcus Bernard of Waste Management (WM) were present to operate the Flare and assist in coordinating testing and the collection of process data during testing. Jon Silva of SCS Engineers was also on site to assist with the test program.

The BAAQMD was notified of the scheduled testing in a plan submitted by SCS Engineers on behalf of Waste Management on January 27th, 2021. A Source Test Protocol acknowledgement (NST #6313) was received on January 27th, 2021; however, no agency observers were present during testing. A copy of the source test protocol and email correspondence are provided in Appendix I.

2.5. Source/Process Description

The Kirby Canyon Recycling and Disposal Facility, located in Morgan Hill, CA, is a multi-material landfill with a gas collection system that is abated by an industrial landfill gas flare. Flare A-12 has a 124 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 set-point is established at 1,565 °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 1.29 gallons per minute (gpm).

The average exhaust temperature at normal operating condition was 1,564 °F. The LFG flowrate ranged from 1,978 to 2,027 SCFM. The operating exhaust temperature, and LFG flowrate records are provided in Appendix F.

Landfill gas samples collected at the head of the flare showed an average methane content of 47.2% and an oxygen content of 2.0%.

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 to check for the presence of cyclonic flow. O_2 stratification was greater than 10%; therefore, subsequent CEM sampling was conducted using all traverse points. Sampling was performed for two minutes per point for a total of 16 points over each 32-minute test run. 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.

3.3. Sample Train Description

Sampling system diagrams are included in the 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), and total hydrocarbons (THC) 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 gas flow was controlled with a rotameter to collect the 32-minute integrated samples.

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., located in Ventura, CA. The samples were collected in 6-liter SUMMA canisters and analyzed for hydrocarbons by EPA Method 25, sulfur species (incl. 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.

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.

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. Section 16.2.2 of the method is used to determine the NO_X analyzer NO_2 to NO conversion efficiency.

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.

System Performance Criteria

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

EPA Method 4-16.4 – Determination of Moisture Content in Stack Gas
This is an acceptable alternative to EPA Method 4 for the determination of moisture using F-factors. The mole fraction of moisture in the ambient air is calculated using equations in EPA Method 4-16.4 from 1) the measured ambient relative humidity, ambient temperature, and barometric pressure, 2) the mole fraction of free water in the fuel, calculated from the moisture % in the fuel, which is determined by the analytical lab to be the balance after all the major gaseous components have been summed, and 3) the mole fraction of hydrogen in the fuel. To determine the moisture in the fuel, the raw fuel analysis before normalization to 100% is referenced.

EPA Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
This method is used to determine emissions of volatile organics by gas chromatograph/mass spectroscopy (GC/MS). Gaseous emissions are drawn through a Teflon sample transfer line to a Tedlar bag held in a rigid leak proof bag container. The sample is drawn into the bag by evacuating the container to stack gas pressure to allow sample flow without using a pump to avoid contamination. Negative pressure is adjusted to maintain an integrated sample flow for the collection time. The bag samples are taken to a laboratory and analyzed within 72 hours.

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. The method is written for evacuated tank sampling but is adaptable to Tedlar bag sampling procedures. The sampling equipment consists of a stainless steel or glass lined probe with a short stainless-steel or Teflon transfer line to a Tedlar bag housed in a sealed chamber. The chamber is evacuated by pump at a prescribed rate for the test duration and the Tedlar bag capacity, so the sample is integrated over the test period. 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 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	Chemiluminescence
TECO Model 48C	CO	GFC/IR
TECO Model 55C	$NMOC/CH_4$	FID
CAI Fuji ZRH	CO_2	IR
Servomex Model 1440	O_2	Paramagnetic

The analyzer data recording system consists of a Honeywell DPR300 strip chart recorder, supported by a Data Acquisition System (DAS). The instrument response is recorded on strip charts and DAS. The averages are corrected for drift using BAAQMD and EPA Method 7E equations. All system performance criteria were met.

3.6. Comments: Limitations and Data Qualifications

This source test was performed in accordance with the protocol submitted to the 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 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
1,564°F - Condensate On

RUN	1	2	3	AVERAGE	LIMITS
Test Date	2/25/21	2/25/21	2/25/21		
Test Time	0826-0901	0929-1006	1031-1106		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,565	1,564	1,564	1,564	
Condensate Injection, gpm	1.32	1.30	1.26	1.29	
Fuel Flow Rate, SCFM	1,978	1,989	1,991	1,986	
Fuel Heat Input, MMBtu/hr	55.9	56.6	56.9	56.5	
Exhaust Flow Rate, DSCFM *(EPA M19)*	20,654	20,398	20,952	20,668	
Oxygen, O_2, %	11.9	11.6	11.8	11.8	
Carbon Dioxide, CO_2, %	8.1	8.3	8.1	8.2	
Water Vapor, H_2O, % *(EPA M4.16)*	11.7	8.7	8.5	9.6	
NO, ppm	18.6	21.1	19.1	19.6	
NO_2, ppm	<1.0	<1.0	<1.0	<1.0	
NO_2/NO	<0.05	<0.05	<0.05	<0.05	
NOx, ppm	18.1	20.5	18.8	19.2	
NOx, ppm @ 15% O_2	11.8	13.1	12.3	12.4	
NOx, lbs/hr	2.67	2.99	2.82	2.83	
NOx, lbs/MMBtu	**0.048**	**0.053**	**0.050**	**0.050**	**0.06**
CO, ppm	<2.0	<2.0	<2.0	<2.0	
CO, ppm @ 15% O_2	<1.3	<1.3	<1.3	<1.3	
CO, lbs/hr	<0.18	<0.18	<0.18	<0.18	
CO, lbs/MMBtu	**0.003**	**0.003**	**0.003**	**0.003**	**0.3**
TRS as H_2S, ppm in Fuel	**215**	**297**	**315**	**276**	
SO_2, ppm Exhaust (calculated)	**20.6**	**29.0**	**29.9**	**26.5**	**300**
THC, ppm wet *(Sum NMOC + CH_4)*	<11.1	<11.1	<11.1	<11.1	
THC, ppm dry	<12.5	<12.6	<12.6	<12.6	
THC, lbs/hr as CH_4	<0.643	<0.639	<0.654	<0.645	
CH_4, ppm wet *(EPA ALT 097)*	<10.0	<10.0	<10.0	<10.0	
CH_4, ppm dry	<11.3	<11.3	<11.3	<11.3	
CH_4, lbs/hr	<0.581	<0.573	<0.589	<0.581	
TNMHC, ppm as CH_4 *(EPA ALT 097)*	1.07	1.14	1.11	1.10	
TNMHC, ppm dry as CH_4	1.21	1.29	1.25	1.25	
TNMHC, lbs/hr as CH_4	0.062	0.065	0.065	0.064	
TNMHC, ppm @ 3% O_2 as CH_4	**2.39**	**2.50**	**2.48**	**2.45**	**30**
INLET TNMOC *(EPA M25C)*	1,574	1,720	2,033	1,776	**or**
INLET NMOC lbs/hr as CH_4	7.7	8.5	10.0	8.8	
NMOC Removal Efficiency	**99.20%**	**99.23%**	**99.35%**	**99.26%**	**98**
INLET CH_4, ppm	473,000	476,000	478,000	475,667	
INLET CH_4 lbs/hr	2,322.5	2,350.3	2,362.5	2,345	
CH_4 Removal Efficiency	**>99.97%**	**>99.98%**	**>99.98%**	**>99.98%**	**99**
INLET THC (TOC) ppm as CH_4	474,574	477,720	480,033	477,442	
INLET THC (TOC) lbs/hr as CH_4	2,330	2,359	2,373	2,354	
THC (TOC) Removal Efficiency	**99.97%**	**99.97%**	**99.97%**	**99.97%**	

< Value = 2% of Analyzer Range

WHERE,

ppm = Parts per Million Concentration
Lbs/hr = Pound per Hour Emission Rate
Tstd. = Standard Temperature (°R = °F+460)
MW = Molecular Weight
DSCFM = Dry Standard Cubic Feet Per Minute
NOx = Oxides of Nitrogen as NO_2 (MW = 46)
CO = Carbon Monoxide (MW = 28)
TOC = THC = Total Organic Carbon as Methane including CH_4 (MW = 16)
THC = Total Hydrocarbons as Methane (MW = 16)
NMOC = Total Non-Methane Organic Carbon as Methane (MW = 16)
SO_2 = Sulfur Dioxide as SO_2 (MW = 64.1)

CALCULATIONS,

PPM @ 15% O_2 = ppm * 5.9 / (20.9 - %O_2)
PPM @ 3% O_2 = ppm * 17.9 / (20.9 - %O_2)
Lbs/hr = ppm * 8.223 E-05 * DSCFM * MW / Tstd. °R
Lbs/day = Lbs/hr * 24
Removal Efficiency = (inlet lbs/hr- outlet lbs/hr) / inlet lbs/hr
SO_2 emission ppm = H2S in fuel * Fuel Flow/Stack Gas Flow

TABLE #2

Kirby Canyon Recycling & Disposal Facility

Flare A-12

1,564°F - Condensate On

Landfill Gas Characterization

RUN			R1-LFG-CON	R2-LFG-CON	R3-LFG-CON	AVERAGE
Test Date			2/25/21	2/25/21	2/25/21	-
Acrylonitrile		ppb	<135	<148	<159	<147
Bromodichloromethane		ppb	<33.7	<37.1	<39.7	<36.8
Carbon Tetrachloride		ppb	<33.7	<37.1	<39.7	<36.8
Chlorobenzene		ppb	122	125	123	123
Chlorodifluoromethane		ppb	<33.7	<37.1	<39.7	<36.8
Chloromethane		ppb	<67.4	<74.2	<79.4	<73.7
Chloroethane		ppb	96.3	75.0	78.6	83.3
Chloroform		ppb	<33.7	<37.1	<39.7	<36.8
1,1 Dichloroethane	Ethylidene Dichloride	ppb	<33.7	<37.1	<39.7	<36.8
1,1 Dichloroethene	Vinylidene Chloride	ppb	<33.7	<37.1	<39.7	<36.8
1,2 Dichloroethane	Ethylene Dichloride	ppb	95.0	87.6	80.2	87.6
1,2 Dichloropropane		ppb	<33.7	<37.1	<39.7	<36.8
1,4 Dichlorobenzene		ppb	573	648	664	628
Dichlorodifluoromethane		ppb	75.5	69.8	66.7	70.7
Dichlorofluoromethane		ppb	49.2	<37.1	42.9	43.1
Ethanol		ppb	17,900	18,500	23,100	19,833
Ethylbenzene		ppb	2,360	2,710	2,620	2,563
Ethlyene Dibromide	1,2 Dibromoethane	ppb	<33.7	<37.1	<39.7	<36.8
Fluorotrichloromethane	Trichlorofluoromethane	ppb	<33.7	<37.1	<39.7	<36.8
Hexane		ppb	257	249	238	248
Isopropyl Alcohol	IPA	ppb	4,660	6,270	6,850	5,927
Methyl Ethyl Ketone (MEK)	2-Butanone	ppb	13,200	11,900	12,000	12,367
Methylene Chloride		ppb	<67.4	<74.2	<79.4	<73.7
Methyl isobutyl ketone (MiBK)		ppb	641	575	621	612
Perchloroethylene	Tetrachloroethylene	ppb	62.0	57.2	61.1	60.1
1,1,1 Trichlororethane		ppb	<33.7	<37.1	<39.7	<36.8
1,1,2,2 Tetrachloroethane		ppb	<33.7	<37.1	<39.7	<36.8
trans-1,2-Dichloroethane	t-1,2-Dichloroethane	ppb	<33.7	<37.1	<39.7	<36.8
Trichloroethylene	Trichloroethene	ppb	49.2	43.8	46.8	46.6
Vinyl Chloride		ppb	<33.7	<37.1	39.7	36.8
Xylenes		ppb	5,680	6,080	5,710	5,823
Ethane (C_2)		ppm	<3.4	<3.7	<4.0	<3.7
Propane (C_3)		ppm	11.5	11.7	12.3	11.8
Butane (C_4)		ppm	5.4	6.3	6.9	6.2
Pentane (C_5)		ppm	10.0	12.0	14.5	12.2
Carbon Disulfide		ppm	<0.067	<0.074	<0.079	<0.073
Carbonyl Sulfide		ppm	0.410	0.541	0.215	0.389
Dimethyl Sulfide		ppm	1.92	1.95	1.94	1.94
Ethyl Mercaptan		ppm	0.103	0.106	0.121	0.110
Methyl Mercaptan		ppm	2.33	2.81	3.14	2.76
Hydrogen Sulfide		ppm	208	289	306	268
TRS as H2S		ppm	215	297	315	276

TABLE #3

Kirby Canyon Recycling & Disposal Facility
Flare A-12
1,564°F - Condensate OFF

RUN	1	2	3	AVERAGE	LIMITS
Test Date	2/25/21	2/25/21	2/25/21		
Test Time	1137-1213	1236-1311	1337-1412		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,563	1,564	1,564	1,564	
Condensate Injection, gpm	0.00	0.00	0.00	0.00	
Fuel Flow Rate, SCFM	1,996	2,013	2,027	2,012	
Fuel Heat Input, MMBtu/hr	57.4	57.9	54.0	56.4	
Exhaust Flow Rate, DSCFM *(EPA M19)*	22,088	22,092	20,238	21,472	
Oxygen, O_2, %	12.25	12.16	12.01	12.14	
Carbon Dioxide, CO_2, %	7.66	7.78	7.90	7.78	
Water Vapor, H_2O, % *(EPA M4.16)*	8.22	8.31	8.45	8.33	
NO, ppm	14.9	15.0	14.8	14.9	
NO_2, ppm	<1.0	<1.0	<1.0	<1.0	
NO_2/NO	<0.07	<0.07	<0.07	<0.07	
NOx, ppm	14.6	14.5	14.5	14.5	
NOx, ppm @ 15% O_2	9.9	9.8	9.6	9.8	
NOx, lbs/hr	2.30	2.29	2.09	2.23	
NOx, lbs/MMBtu	**0.040**	**0.040**	**0.039**	**0.039**	**0.06**
CO, ppm	3.3	<2.0	2.1	2.5	
CO, ppm @ 15% O_2	2.3	<1.4	1.4	1.7	
CO, lbs/hr	0.32	<0.19	0.18	0.23	
CO, lbs/MMBtu	**0.006**	**<0.003**	**0.003**	**0.004**	**0.30**
TRS as H_2S, ppm in Fuel	**364**	**354**	**313**	**344**	
SO_2, ppm Exhaust (calculated)	**32.9**	**32.3**	**31.3**	**32.2**	**300**
THC, ppm wet *(Sum NMOC + CH_4)*	<11.2	<11.3	<11.0	<11.1	
THC, ppm dry	<12.2	<12.3	<12.0	<12.2	
THC, lbs/hr as CH_4	<0.67	<0.67	<0.60	<0.65	
CH_4, ppm wet *(EPA ALT 097)*	<10.0	<10.0	<10.0	<10.0	
CH_4, ppm dry	<10.9	<10.9	<10.9	<10.9	
CH_4, lbs/hr	<0.55	<0.55	<0.50	<0.53	
TNMHC, ppm as CH_4 *(EPA ALT 097)*	1.19	1.26	<1.00	1.15	
TNMHC, ppm dry as CH_4	1.29	1.37	<1.09	1.25	
TNMHC, lbs/hr as CH_4	0.065	0.069	<0.050	0.062	
TNMHC, ppm @ 3% O_2 as CH_4	**2.46**	**2.58**	**<2.0**	**2.35**	**30**
INLET TNMOC *(EPA M25C)*	2,017	1,995	1,902	1,971	**or**
INLET NMOC lbs/hr as CH_4	10.0	10.0	9.6	9.8	
NMOC Removal Efficiency	**99.35%**	**99.31%**	**99.48%**	**99.38%**	**98**
INLET CH_4, ppm	480,000	481,000	445,000	468,667	
INLET CH_4 lbs/hr	2,378.4	2,403.6	2,239.2	2,340	
CH_4 Removal Efficiency	**>99.98%**	**>99.98%**	**>99.98%**	**>99.98%**	**99**
INLET THC (TOC) ppm as CH_4	482,017	482,995	446,902	470,638	
INLET THC (TOC) lbs/hr as CH_4	2,388	2,414	2,249	2,350	
THC (TOC) Removal Efficiency	**99.97%**	**99.97%**	**99.97%**	**99.97%**	

< Value = 2% of Analyzer Range

WHERE,

ppm = Parts per Million Concentration
Lbs/hr = Pound per Hour Emission Rate
Tstd. = Standard Temperature (°R = °F+460)
MW = Molecular Weight
DSCFM = Dry Standard Cubic Feet per Minute
NOx = Oxides of Nitrogen as NO_2 (MW = 46)
CO = Carbon Monoxide (MW = 28)
TOC = THC = Total Organic Carbon as Methane including CH_4 (MW = 16)
THC = Total Hydrocarbons as Methane (MW = 16)
NMOC = Total Non-Methane Organic Carbon as Methane (MW = 16)
SO_2 = Sulfur Dioxide as SO_2 (MW = 64.1)

CALCULATIONS,

PPM @ 15% O_2 = ppm * 5.9 / (20.9 - %O_2)
PPM @ 3% O_2 = ppm * 17.9 / (20.9 - %O_2)
Lbs/hr = ppm * 8.223 E-05 * DSCFM * MW / Tstd. °R
Lbs/day = Lbs/hr * 24
Removal Efficiency = (inlet lbs/hr- outlet lbs/hr) / inlet lbs/hr
SO_2 emission ppm = H2S in fuel * Fuel Flow/Stack Gas Flow

TABLE #4

Kirby Canyon Recycling & Disposal Facility

Flare A-12

1,564°F - Condensate OFF

Landfill Gas Characterization

RUN			R1-LFG-COFF	R2-LFG-COFF	R3-LFG-COFF	AVERAGE
Test Date			2/25/21	2/25/21	2/25/21	-
Acrylonitrile		ppb	<162	<159	<151	<157
Bromodichloromethane		ppb	<40.4	<39.7	<37.7	<39.3
Carbon Tetrachloride		ppb	<40.4	<39.7	<37.7	<39.3
Chlorobenzene		ppb	110	107	106	108
Chlorodifluoromethane		ppb	<40.4	<39.7	<37.7	<39.3
Chloromethane		ppb	<80.8	<79.4	<75.3	<78.5
Chloroethane		ppb	82.4	57.2	86.6	75.4
Chloroform		ppb	<40.4	<39.7	<37.7	<39.3
1,1 Dichloroethane	Ethylidene Dichloride	ppb	<40.4	<39.7	<37.7	<39.3
1,1 Dichloroethene	Vinylidene Chloride	ppb	<40.4	<39.7	<37.7	<39.3
1,2 Dichloroethane	Ethylene Dichloride	ppb	79.2	79.4	76.1	78.2
1,2 Dichloropropane		ppb	<40.4	<39.7	<37.7	<39.3
1,4 Dichlorobenzene		ppb	580	581	551	571
Dichlorodifluoromethane		ppb	63.8	66.7	63.3	64.6
Dichlorofluoromethane		ppb	40.4	<39.7	<37.7	<39.3
Ethanol		ppb	23,200	23,200	19,800	22,067
Ethylbenzene		ppb	2,440	2,440	2,350	2,410
Ethlyene Dibromide	1,2 Dibromoethane	ppb	<40.4	<39.7	<37.7	<39.3
Fluorotrichloromethane	Trichlorofluoromethane	ppb	<40.4	<39.7	<37.7	<39.3
Hexane		ppb	236	219	216	224
Isopropyl Alcohol	IPA	ppb	7,020	6,760	5,940	6,573
Methyl Ethyl Ketone (MEK)	2-Butanone	ppb	12,300	12,800	10,800	11,967
Methylene Chloride		ppb	<80.8	<79.4	<75.3	<78.5
Methyl isobutyl ketone (MiBK)		ppb	585	569	511	555
Perchloroethylene	Tetrachloroethylene	ppb	53.3	52.4	49.0	51.6
1,1,1 Trichlororethane		ppb	<40.4	<39.7	<37.7	<39.3
1,1,2,2 Tetrachloroethane		ppb	<40.4	<39.7	<37.7	<39.3
trans-1,2-Dichloroethane	t-1,2-Dichloroethane	ppb	<40.4	<39.7	<37.7	<39.3
Trichloroethylene	Trichloroethene	ppb	42.0	41.3	<37.7	40.3
Vinyl Chloride		ppb	<40.4	<39.7	37.7	39.3
Xylenes		ppb	5,410	5,410	5,090	5,303
Ethane (C_2)		ppm	<4.0	<4.0	<3.8	<3.9
Propane (C_3)		ppm	12.0	12.0	10.7	11.6
Butane (C_4)		ppm	6.7	6.8	5.6	6.4
Pentane (C_5)		ppm	25.7	14.8	29.5	23.3
Carbon Disulfide		ppm	<0.081	<0.079	<0.075	<0.078
Carbonyl Sulfide		ppm	0.301	0.343	0.341	0.328
Dimethyl Sulfide		ppm	1.95	1.99	1.73	1.89
Ethyl Mercaptan		ppm	0.174	0.259	0.164	0.199
Methyl Mercaptan		ppm	3.30	3.47	3.17	3.31
Hydrogen Sulfide		ppm	354	344	304	334
TRS as H2S		ppm	364	354	313	344

APPENDIX P

A-12 FLARE 12-MONTH SULFUR DIOXIDE EMISSIONS LOG

12-MONTH CONSECUTIVE SOx Emission Rate (Tons/Year) :2020-2021
Kirby Canyon Recycling & Disposal Facility
Plant #1812, Condition 1437 Item 20

Month	SO_2 (Tons/Month)	SO_2 (12- Months Tons)
July-20	2.2	33.7
August-20	2.1	33.0
September-20	2.1	32.2
October-20	2.0	31.5
November-20	2.0	30.8
December-20	2.2	30.0
January-21	2.1	28.8
February-21	2.0	27.7
March-21	2.2	26.7
April-21	2.3	26.0
May-21	2.3	25.5
June-21	2.4	25.8

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 P 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.