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October 24, 2022

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SUBJECT: Combined Title V Semi-Annual and Partial 8-34 Annual Report 40 CFR 63
Subpart AAAA Semi-Annual Report
Guadalupe Recycling & Disposal Facility
15999 Guadalupe Mines Road, San Jose, CA 95120
Facility Number A3294

Dear Sir or Madam:

The Guadalupe Rubbish Disposal Co., Inc. (GRDC) is pleased to submit the attached Combined Title V Semi-Annual and Partial 8-34 Annual Report for the period of April 1, 2022, through September 30, 2022, 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 Title V Permit Condition Number 6188 Part 22 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,
Guadalupe Rubbish Disposal Co., Inc.

Paul Enrique Perez

Enrique Perez
District Manager

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

**Combined Title V Semi-Annual and
Partial 8-34 Annual Report
For the Guadalupe Rubbish Disposal Co., Inc.
15999 Guadalupe Mines Road
San Jose, California 95120
Facility Number A3294**

April 1, 2022, through September 20, 2022

Submitted on:
October 27, 2022

Prepared for
Guadalupe Recycling & Disposal Facility
15999 Guadalupe Mines Road
San Jose, California 95120

For Submittal to:
The Bay Area Air Quality Management District
375 Beale Street, Suite 600
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And

The United States Environmental Protection Agency, Region IX
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Prepared by



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1 INTRODUCTION

1.1 Purpose

This document is a Combined Semi-Annual Title V and Partial 8-34 Annual Report for the Guadalupe Recycling & Disposal Facility (GRDF) pursuant to Title V Permit Standard Condition 1.F and Condition Number 6188 Part 22. This report satisfies the requirements of Bay Area Air Quality Management District's (BAAQMD) Regulation 8, Rule 34, Section 411 and Title 40 Code of Federal Regulations (CFR) Part 60 Subpart WWW, New Source Performance Standards (NSPS) for municipal solid waste (MSW) landfills. This Combined Report meets the requirements of Title V Standard Condition 1.F, BAAQMD Rule 8-34-411 and 40 CFR §60.757(f) and covers compliance activities conducted from April 1, 2022, through September 30, 2022. During the timeframe included in this report from April 1, 2022, through September 30, 2022, the site also began performed compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA (effective September 27, 2021) for wellhead temperature and pressure standards. This Combined Report also includes the Semi-Annual Report of Start-up, Shutdown, and Malfunction (SSM) Plan activities pursuant to National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 63, Subpart AAAA for Landfills.

Section 2 of this Combined Report contains the elements required to satisfy both BAAQMD 8-34-411 and 40 CFR §60.757(f). A Performance Test Report for the A-9 Flare that meets the requirements of both BAAQMD Rule 8-34-413 and 40 CFR §60.758(g) was submitted to the BAAQMD on June 24, 2020, and results of the test are included in Appendix N of this Combined Report. Section 3 of this Combined Report includes a discussion of the data from the most recent Performance Test on A-9 Flare, which was conducted on April 29, 2020, in compliance with BAAQMD Rule 8-34-412 and Title V Permit Condition Number 6188, Part 14. Annual Performance Test Report for the Flare A-17 (previously designated as A-14) that meets the requirements of both BAAQMD Rule 8-34-413 and 40 CFR §60.758(g) was submitted to the BAAQMD on April 8, 2022, and summary of test results are included in Appendix N of this Combined Report. Section 3 of this Combined Report includes a discussion of the data from the Performance Test on A-17 Flare, which was conducted on February 16, 2022, in compliance with BAAQMD Rule 8-34-412 and Title V Permit Condition Number 6188, Part 14. The 2022 Annual Performance Test Report for the Flare A-17 that meets the requirements of both BAAQMD Rule 8-34-413 and 40 CFR §60.758(g) was submitted to the BAAQMD on April 8, 2022. Section 4 of this Combined Report includes the Semi-Annual Report of the SSM Plan activities pursuant to the NESHAP, 40 CFR Part 63, Subpart AAAA for Landfills.

1.2 Record Keeping and Reporting

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

2 COMBINED MONITORING REPORT

In accordance with Title V Permit Standard Condition 1.F, BAAQMD Rule 8-34-411 and §60.757(f) in the NSPS, this report is a Combined Semi-Annual Title V Report and Partial 8-34 Annual Report that is required to be submitted by the GRDF. 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 April 1, 2022, through September 30, 2022. The following table lists the rules and regulations that are required to be included in this Combined Report.

Table 2-1 Combined 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, D, & E
8-34-501.2 §60.757(f)(3)	All emission control system downtime and the reason for the shutdown.	Section 2.2, Appendices B & E
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 F
8-34-501.4, 8-34-505, 8-34-510	Testing performed to satisfy any of the requirements of this rule.	Section 2.4 & 2.10 Appendices G & J
8-34-501.5	Monthly landfill gas flow (LFG) rates and well concentration readings for facilities subject to 8-34-404.	Section 2.5, 2.11 Appendix 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, Appendix H
8-34-501.7	Annual waste acceptance rate and current amount of waste in-place.	Section 2.8 Appendix I
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 GCCS Design Plan.	Section 2.9

RULE	REQUIREMENT	LOCATION IN REPORT
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, 2.10.1, Appendices J & 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, Appendices F and 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
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 2.12
§60.10 (d)(5)(i)	Startup, Shutdown, Malfunction Events	Section 4.0, Appendices D & E
§63	Subpart AAAA	Section 2.10

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

Appendix A contains a current map of the GRDF's existing GCCS. Section 2.1.1 includes the GCCS downtime for the reporting period. The information contained in Section 2.1.2 includes the wellfield SSM information.

2.1.1 Collection System Downtime

During the period covered in this report, the GCCS was not shut down for more than five days on any one occasion. Downtime for 2022 partial calendar year from January 1, 2022, through September 30, 2022, was 48.1 hours, out of an allowable 240 hours per year. The partial total downtime for the reporting period of April 1, 2022, through September 30, 2022, was 34.5 hours.

Appendix B contains the GCCS Downtime Report which lists dates, times, and lengths of shutdowns for the reporting period and year-to-date.

2.1.2 Well Start-Up & Disconnection Log

There were eleven (11) wellfield SSM events during the reporting period. Well 223 was disconnected for filling on September 1, 2022, pursuant to 8-34-116. Well monitoring was conducted on Well 223 on August 31, 2022. Subsequent well monitoring on Well 223 was conducted on October 11, 2022, upon reconnection of the well. See Appendix D, Wellfield SSM Log for details of well disconnection and reconnection events.

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

GRDF flare (A-9) began operation in August 2003 and was operated in conjunction with flare (A-14), which started initial operation in November 2016. The stack on flare A-14 was then replaced with a new stack in October 2020. Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17. The control system was not bypassed at any time during the reporting period. Raw LFG was not emitted during the reporting period. The SSM logs for the flare A-9 and flare A-17 are located in Appendix E. As indicated in Section 2.1.1, the total downtime for 2022 partial calendar year from January 1, 2022, through September 30, 2022, was 48.1 hours, out of an allowable 240 hours per year. The total downtime for the reporting period of April 1, 2022, through September 30, 2022, was 34.5 hours. The GCCS Downtime Log for the reporting period is included in Appendix B.

During the reporting period, GRDF submitted the request for Breakdown Relief from BAAQMD for the June 5, 2022, PG&E unplanned power outage via BAAQMD's Reportable Compliance Activity (RCA) notification forms submitted on June 6, 2022, and was assigned RCA numbers 08J18. GRDF submitted the Title V 10-day and 30-day letter on June 10, 2022; 30-day follow-up report for breakdown relief on June 30, 2022; During the reporting period, GRDF also submitted the request for Breakdown Relief from BAAQMD for the July 11, 2022, PG&E unplanned power outage via BAAQMD's Reportable Compliance Activity (RCA) notification forms submitted on June 12, 2022, and was assigned RCA numbers 08K15. GRDF submitted the Title V 10-day and 30-day letter on July 14, 2022; 30-day follow-up report for breakdown relief on July 14, 2022; Additionally, during the reporting period, GRDF also submitted the request for Breakdown Relief from BAAQMD for the August 8, 2022, PG&E unplanned power outage via BAAQMD's Reportable Compliance Activity (RCA) notification forms submitted on August 8, 2022, and was assigned RCA numbers 08K82. GRDF submitted the Title V 10-day and 30-day letter on August 10, 2022; 30-day follow-up report for breakdown relief on August 10, 2022; Copies of submitted letters are included in Appendix C.

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

Title 40 CFR §60.757(f)(2) is not applicable at the GRDF because a by-pass 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)

BAAQMD Regulation 8-34-501.11 and 8-34-509 are not applicable to the A-9 and A-17 Flares because the A-9 and A-17 Flares are subject to continuous temperature monitoring as required in BAAQMD Regulation 8-34-507 and §60.757(f)(1).

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

The combustion zone temperature of the flare is monitored with Thermo-Electric Thermocouples. The temperature is displayed and recorded every two minutes with a Yokogawa FX1000 digital recorder on flare A-9 and Yokogawa DX1000 digital recorder on flare A-17. There were no temperature deviations during the reporting period that were below the permit limit of 1,593 Degree F and 1,449 Degree F for flare A-9 and flare A-17. Appendix F contains the Flare Temperature Deviation/ Inoperative Monitor/Missing Data Report for April 1, 2022, through September 30, 2022.

2.4 Monthly Cover Integrity Monitoring (BAAQMD 8-34-501.4)

The cover integrity monitoring was performed on the following dates:

- April 26, 2022
- May 20 and 31, 2022
- June 27, 2022
- July 27, 2022
- August 29, 2022
- September 23, 2022

During May 2022 monthly monitoring event, one location with surface cracks was identified on May 29, 2022. The corrective actions were completed on May 31, 2022, by adding soil and compacting. No other breaches of cover integrity (e.g. cover cracks or exposed garbage) were found during the reporting period. The Monthly Cover Integrity Monitoring reports are included in Appendix G.

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

The GRDF 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:

- Second Quarter 2022 – April 13, 2022
- Third Quarter 2022 – September 12, 2022

A Photovac Micro Flame Ionization Detector (FID) was used to monitor the path along the landfill surface according to the Landfill Surface Emissions Monitoring Plan map. Any areas suspected of having emissions problems based on visible observations were also monitored. Prior to both monitoring events, the FID instrument was zeroed and calibrated using zero air and 500 parts per million by volume (ppmv) methane calibration gas.

The Initial monitoring event for the Second Quarter 2022 SEM was conducted by Roberts Environmental Services (RES) on April 13, 2022, identifying one exceedance location. GRDF personnel performed the ten-day re-monitoring on April 14, 2022. GRDF personnel performed the thirty-day follow-up monitoring event on May 9, 2022. No exceedances were observed during the 30-day re-monitoring events. Detailed monitoring results are available in the Second Quarter 2022 SEM Report, included in Appendix H.

The Initial monitoring event for the Third Quarter 2022 SEM was conducted by Roberts Environmental Services (RES) on September 12, 2022, identifying zero exceedance locations. Detailed monitoring results are available in the Third Quarter 2022 SEM Report, included in Appendix H.

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:

- Second Quarter 2022 – April 13, 2022
- Third Quarter 2022 – September 12, 2022

A TVA was used to perform the leak testing. No exceedances were identified during the reporting period. Appendix H contains the Quarterly LFG Component Leak Monitoring Reports.

2.8 Waste Acceptance Records (BAAQMD 8-34-501.7)

The Annual Waste Acceptance Rate was compiled for the timeframe of April 1, 2022, through September 30, 2022. The Current Waste-In-Place figure includes waste placed through the end of this reporting period. Below is a summary of the waste acceptance records for the reporting period. A table of monthly totals for the reporting period is provided in Appendix I.

Table 2-2 Waste Acceptance

Description	Total Waste Landfilled (Decomposable)
Total Waste Acceptance April 1, 2022, through September 30, 2022	88,526
Current Waste In Place as of September 30, 2022	Approximately 10.26 Million tons

2.9 Non-degradable waste acceptance records (BAAQMD 8-34-501.8)

The GCCS Design Plan for the GRDF does not indicate 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 8-34-505. Effective September 27, 2021, the site began compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards. The well readings for April 1, 2022, through September 30, 2022, are included in Appendix J. 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 (°C) (131 degrees Fahrenheit [°F]); and
- 8-34-305.4 – The oxygen concentration in each wellhead shall be less than 5 percent by volume.

The wellhead monitoring was performed on the following dates:

- April 6, 7, 11, 12, 13, and 18, 2022
- May 2, 9, and 13, 2022
- June 1, 2, 6, 7, and 9, 2022
- July 6, 7, 14, 18, 19, and 26, 2022
- August 4, 5, 8, 9, 11, 23, and 31, 2022
- September 1, 6, 7, 8, and 9, 2022

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

There were eleven (11) well deviations with readings that exceeded limits per BAAQMD Regulation 8-34-305 during the reporting period. During this reporting period, there were no additional exceedances associated with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards. All exceedances were corrected within 120-days. See Appendix K, Wellfield Deviation Log, for more detail.

2.10.2 Higher Operating Value (HOV) Wells

As of September 30, 2022, the following list of wells are approved to operate at a temperature HOV of 145°F: Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218.

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

The flare LFG flow rate was measured with a dedicated Kurz MFT-B flow meter at both the flares. The General Electric data panel displays the LFG flow and the digital Yokogawa data recorder records LFG flow every two minutes and is downloaded and saved to a compact flash card. The flare flow meters meet the requirements of BAAQMD Regulation 8-34-508 by recording data at least every 15 minutes. The flow meter is maintained and calibrated pursuant to manufacturer’s recommendations. The flow data for the flare is available for review at the GRDF. Appendix L contains a summary of the monthly LFG flow rates for the flare. Appendix F contains the Flare Temperature Deviation/ Inoperative Monitor/Missing Data Report for April 1, 2022, through September 30, 2022.

Table 2-3 below is a summary of the total LFG flow for the reporting period of April 1, 2022, through September 30, 2022.

Table 2-3 Total LFG Flow for April 1, 2022, through September 30, 2022

Emission Control Device	Average Flow (scfm)	Average CH ₄ (%)*	Total LFG Volume (scf)	Total CH ₄ Volume (scf)	Heat Input (MMBTU)
A-9 Flare	0.0	49.9	0.0	0.0	0.0
A-17 Flare	1,631	44.1	426,151,479	186,414,793	190,183

scfm = standard cubic feet per minute

CH₄ = methane

scf = standard cubic feet

**Methane content determined from April 29, 2020, Source Test on Flare A-9.*

**Methane content determined from February 16, 2022, Source Test on Flare A-17.*

MMBTU = million British thermal units

2.12 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 Condition Number 6188 Part 2 as modified by the Permit to Operate (PTO) Condition Number 28011, during the reporting period. No wells were decommissioned or started during the reporting period.

As of September 30, 2022, the GRDF has a total 87 collectors, (85 vertical wells and 2 horizontal Leachate collectors).

2.13 Compliance with Title V Permit Condition Number 6188, Part 19 and 20

Contaminated soil containing volatile organic compounds (VOCs) greater than 50 ppm_v was not received during the reporting period. A total of 1,187.0 tons of Low-VOC soil (containing less than 50 ppm of VOCs) was received during the reporting period. Condition Number 6188, Part 19 of the Title V Permit requires that GRDF limit the quantity of low VOC-laden soil handled per day so that no more than 15 pounds of total carbon could be emitted to the atmosphere per day. GRDF was in compliance with this requirement during the reporting period. All records required by the permit are available onsite.

2.14 Compliance with Title V Permit Condition Number 25537 for S-24

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 200,000 tons and the combined amount processed is 2,500 tons per day. During the reporting period, the site did not exceed the permitted annual and daily limits. Required records are available for review at the GRDF.

2.15 Compliance with Title V Permit Condition Number 7649 for S-5

For Source S-5, Wood Debris Stockpile, during the reporting period, the operation did not operate for over 12 hours within any consecutive 24-hours. Required records are available for review at the GRDF.

2.16 Compliance with Title V Permit Condition Number 7650 for S-6

For Source S-6, Shredded Storage Stockpiles and Loadout, during the reporting period, the operation did not operate for over 12 hours within any consecutive 24-hours. Required records are available for review at the GRDF.

2.17 Compliance with Title V Permit Condition Number 18258 for S-18

For Source S-18, Materials Recovery Operation, the total throughput did not exceed 900 tons per day average, based on a calendar month. Required records are available for review at the GRDF.

3 PERFORMANCE TEST REPORT SUMMARY

In accordance with BAAQMD Rule 8-34-413 and 40 CFR §60.757(g) in the 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 the Performance Test Report section of this 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
§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 M

3.1 Flare (A-9) Compliance Demonstration Test Results (BAAQMD 8-34-412)

The Compliance Demonstration Test (Performance Test) was performed on the A-9 Flare by Blue Sky Environmental, Inc. on April 29, 2020, pursuant to BAAQMD Regulation 8-34-412. Two sets of three runs were conducted, one set without condensate injection running and one set with condensate injection running. The final test report was submitted on June 24, 2020.

As required by BAAQMD Regulation 8-34-301.3, the A-9 Flare meets the non-methane organic compound (NMOC) emission concentration of less than 30 ppm_v. Pursuant to Title V Permit Condition Number 6188 Part 9, the A-9 Flare meets the nitrogen oxide (NO_x) emission concentration of less than 16 ppm_v. Also, the A-9 Flare meets the carbon monoxide (CO) emission concentration of less than 134 ppm_v pursuant to the Title V Permit Condition Number 6188, Part 10. The old Flare A9 was shutdown starting November 2020 since Flare A17 is equipped to handle the maximum flow rate expected over the life of the landfill.

The stack on flare A-14 was replaced with a new stack in October 2020. Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17. The Annual Compliance Demonstration Test was performed on the A-17 Flare by Blue Sky Environmental, Inc. on February 16, 2022, pursuant to BAAQMD Regulation 8-34-412. Results indicate that the flare A-17 was in compliance with BAAQMD Regulation 8-34-301.3 and all conditions in the authority to construct. As required by BAAQMD Regulation 8-34-301.3, the A-17 Flare meets the non-methane organic compound (NMOC) emission concentration of less than 30 ppm_v. The A-17 Flare meets the nitrogen oxide (NO_x) emission concentration of less than 15 ppm_v. Also, the A-17 Flare meets the carbon monoxide (CO) emission concentration of less than 81 ppm_v.

Table 3-2 shows the results of the A-9 Flare Performance Test, averaged from each set of three test runs. Table 3-3 shows the results of the A-17 Flare Performance Test, averaged from each set of three test runs. A summary of this Performance Test Results can be found in Appendix N.

Table 3-2 Flare Compliance Demonstration Test Results- Test Data April 29, 2020

Condition	Flare (A-9) (Condensate Off) Average Results	Flare (A-9) (Condensate On) Average Results	8-34-301.3 limit	Compliance Status
NMOC (either 98% DRE or 30 ppm @ 3% O ₂)	<0.5 ppm	<1.6 ppm	30 ppm	In Compliance
NO _x (ppm @ 15% O ₂)	8.4	9.5	16	In Compliance
CO (ppm @ 15% O ₂)	<3.3	<3.4	134	In Compliance

**Table 3-3 Flare Initial Compliance Demonstration Test Results- Test Data
February 16, 2022**

Condition	Flare (A-17) (Condensate Off) Average Results	Flare (A-17) (Condensate On) Average Results	8-34-301.3 limit	Compliance Status
NMOC (either 98% DRE or 30 ppm @ 3% O ₂)	<2.3 ppm	<2.2 ppm	30 ppm	In Compliance
NO _x (ppm @ 15% O ₂)	9.6	12.7	15	In Compliance
CO (ppm @ 15% O ₂)	4.8	3.7	81	In Compliance

**Flare A-14 Stack was replaced in October 2020. The new flare designation will be flare A-17.*

3.2 Compliance with §60.757(g)(1)

“A diagram of the collection system showing collection system positioning including wells, horizontal collectors...”

A map of the LFG collection system showing the location 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 GRDF GCCS has historically provided LFG wells and collectors spaced in accordance with standard industry practice. The GCCS systems are adequate to move the current LFG flow rate. GRDF will continue to add additional LFG control capacity as necessary with the approval of BAAQMD. The installed collector density appears 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.

3.3.1 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. The current GCCS has the capacity to handle 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 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.”

Segregated areas or accumulations of asbestos material were not documented for the site in the GCCS Design Plan. Therefore, §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.”

The site does not contain non-productive areas that have been excluded from the coverage of the GCCS. Therefore, §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 current GCCS has the capacity to handle LFG flow rates for future.

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:

- Second Quarter 2022– June 7, 2022
- Third Quarter 2022- September 14, 2022

The LFG migration monitoring results for the quarterly events are included in Appendix M.

3.7.1 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 Landfill does not meet the measures of performance set forth in the NSPS, the GCCS will be adjusted or modified in accordance with the NSPS requirements.

4 STARTUP, SHUTDOWN, MALFUNCTION (SSM) PLAN

4.1 SSM Log for the GCCS at the GRDF

The NESHAP 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 NSPS semi-annual reporting period are reported in this section (April 1, 2022, through September 30, 2022). The following information is included as required:

- During the reporting period, eleven (11) Wellfield SSM events occurred. Details are included in Appendix D, Well SSM Log.
- During the reporting period, zero (0) A-9 Flare SSM events occurred. The A-9 Flare did not operate during the reporting period due to the reasons noted in Appendix E, Flare SSM Log.
- During the reporting period, twenty-three (23) A-17 Flare (formerly designated as Flare A-14) Flare SSM events occurred. The A-17 Flare was shut down and restarted during the reporting period due to the reasons noted in Appendix E, Flare SSM Log.
- During the reporting period, zero (0) monitoring/recorder equipment SSM events occurred. Details are included in Appendix F, Temperature Deviation/Inoperative Monitor/Missing Data Report.
- There were thirty-four (34) events in total. In all events, automatic systems and operator actions were consistent with the standard operating procedures contained in the SSM Plan. There were no deviations from the SSM plan.
- Exceedances were not identified during the reporting period in any applicable emission limitation in the landfills NESHAP (§63.10(d)(5)(i)).
- 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.

Paul Enrique Perez

Signature of Responsible Official

10.24.2022

Date

Enrique Perez

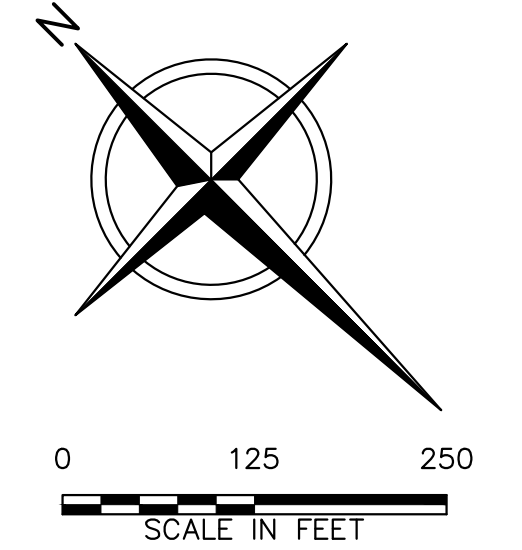
Name of Responsible Official

APPENDIX A

SITE MAP



- LEGEND**
- — — — — PROPERTY BOUNDARY
 - 1400 — EXISTING 10' CONTOUR
 - 12" — EXISTING ABOVEGROUND PIPING
 - 12" — EXISTING BELOWGROUND PIPING
 - 8"/4" — INSTALLED LEACHATE PIPING
 - - - - - EXISTING HORIZONTAL COLLECTOR
 - ⊕ EW-3 EXISTING LFG EXTRACTION WELL
 - ⊕ EXISTING REMOTE WELLHEAD
 - ⊙ LGP-04 ⊙ P-18 EXISTING PROBE
 - ⊙ H6 ⊕ EW-H15 EXISTING HORIZONTAL COLLECTOR WELLHEAD
 - △ LC-190 EXISTING LOCAL CONTROL WELL
 - ⊕ EXISTING LOCAL VALVE
 - ⊕ EXISTING BLIND FLANGE
 - ⊕ EXISTING FLANGE CONNECTION
 - ⊕ EXISTING REDUCER FITTING
 - ▨ EXISTING ROAD CROSSING
 - ◇ CS- EXISTING CONDENSATE SUMP
 - RISER EXISTING RISER
 - ⊔ EXISTING CAP ON EXISTING PIPE



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: MARCH 26, 2021. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
 2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
 3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
 4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
 5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
 6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
 7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
 8. 2021 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 4, 2021 AND AUGUST 21, 2021.

File: \\PROJECTS\GUADALUPE\210030 - 2021 ENGINEERING SERVICES\2021-AS-BUILT UPDATE\Drawings\210030-GUADALUPE_2021-AS-BUILT UPDATE_RECORD.dwg Layout: S1 User: GEARADO-PAREDES Oct 11, 2021 - 10:42am

RECORD DRAWINGS



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	10/11/21		GVP	GVP	AMN	PJS



GUADALUPE RECYCLING AND DISPOSAL FACILITY
 SAN JOSE, CALIFORNIA
2021 GCCS IMPROVEMENTS
AS-BUILT SITE PLAN

SHEET NO.
1
 PROJECT NO.
 210030

APPENDIX B

GCCS DOWNTIME REPORT

LFG Collection System: January 1 through September 30, 2022

2022 GCCS DOWNTIME LOG (Partial)

GUADALUPE RECYCLING & DISPOSAL FACILITY, San Jose, CA

SHUTDOWN DATE/ TIME	START-UP DATE/ TIME	TOTAL DOWNTIME (HOURS)	COMMENTS OR REASONS
04/20/22 16:56	04/20/22 17:32	0.60	Flare A-17 was shutdown during fire damage to the air line. Flare was inspected and restarted.
04/23/22 12:56	04/23/22 16:10	3.23	Flare A-17 shutdown during compressor trip event. Flare was inspected and restarted.
04/29/22 10:52	04/29/22 11:54	1.03	Flare A-17 was shutdown to clear condensate slug in line. Flare was inspected and restarted.
05/31/22 10:26	05/31/22 11:12	0.77	Flare A-17 was shut down to replace air filter on compressor. Flare was inspected and restarted.
06/05/22 04:28	06/05/22 05:26	0.97	Flare A-17 shut down during PG&E unplanned power outage. Flare restarted and was inspected on the next day. RCA was filed and was assigned RCA Number 08J18.
06/06/22 10:00	06/06/22 11:06	1.10	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.
06/13/22 07:54	06/13/22 07:58	0.07	Flare A-17 shut down due to low temperature alarm. Flare was inspected and restarted.
06/13/22 08:08	06/13/22 08:30	0.37	Flare A-17 shutdown during startup sequence. Flare was inspected and restarted.
06/16/22 11:00	06/16/22 14:28	3.47	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.
06/22/22 07:10	06/22/22 10:22	3.20	Flare A-17 shutdown due to low temperature alarm. Flare was inspected and restarted.
06/27/22 10:12	06/27/22 10:26	0.23	Flare A-17 was shut down to clean flowmeter probe. Flare was inspected and restarted.
07/11/22 07:20	07/11/22 08:38	1.30	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.
07/11/22 18:36	07/11/22 20:02	1.43	Flare A-17 shutdown during PG&E unplanned power outage. Flare restarted and was inspected on the next day. RCA was filed and was assigned RCA Number 08K15.
07/15/22 13:28	07/15/22 13:40	0.20	Flare A-17 was shut down by electrician during inspection and maintenance. Flare was inspected and restarted.
07/26/22 07:56	07/26/22 12:08	4.20	Flare A-17 was shut down during repair on lateral line. Flare was inspected and restarted.
07/28/22 13:16	07/28/22 13:42	0.43	Flare A-17 was shut down during maintenance on flowmeter. Flare was inspected and restarted.
07/28/22 13:52	07/28/22 14:08	0.27	Flare A-17 was shut down during maintenance on flowmeter. Flare was inspected and restarted.
08/08/22 11:06	08/08/22 11:58	0.87	Flare A-17 shutdown during PG&E unplanned power outage. RCA was filed and RCA Number 08K82 was assigned. Flare was inspected and restarted.
08/11/22 10:58	08/11/22 12:38	1.67	Flare A-17 was shut down during field work and lateral repair work. Flare was inspected and restarted.
08/25/22 10:36	08/25/22 15:58	5.37	Flare A-17 was shut down during field work and lateral repair work. Flare was inspected and restarted.
08/26/22 15:36	08/26/22 16:04	0.47	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.
08/30/22 08:50	08/30/22 10:44	1.90	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.
08/31/22 07:06	08/31/22 08:26	1.33	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.
TOTAL DOWNTIME April 1 through September 30, 2022 (HOURS)-		34.47	
TOTAL DOWNTIME January 1 through September 30, 2022 (HOURS)-		48.10	
TOTAL PERMITTED DOWNTIME FOR 1 YEAR (HOURS):		240	

APPENDIX C
BAAQMD Correspondence



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

June 10, 2022 (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: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294
Section I.F Title V, 10 and 30-Day written report
RCA Number 08J18

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 10 and 30-day Title V written report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for GRDF.

A breakdown report was submitted on June 6, 2022, at around 1:45 PM because the landfill gas collection and control system (GCCS) temporarily shut down due to the PG&E power outage (caused due to car-pole accident). The flare was back online within one hour on June 5, 2022, around 5:28 AM (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief from BAAQMD for the June 5, 2022, PG&E power outage via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on June 6, 2022, ~1:45 PM and was assigned RCA numbers 08J18 (see Attachment B for copy of RCA and submittal).

The unplanned power outage shutdown events noted in RCA form submitted on June 6, 2022, did not result in emissions, and do not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit GRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control.

GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

GRDF has placed the purchase order for a permanent generator (delayed due to the COVID-19 emergency and related supply chain disruptions) and the supplier anticipates the unit to be delivered by the end of fourth quarter of 2022. GRDF submitted the backup generator permit application to the BAAQMD on February 10, 2022 (AN 31599 was assigned).

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

Sincerely,

Guadalupe Recycling & Disposal Facility

A handwritten signature in cursive script that reads "Paul Enrique Perez".

Enrique Perez
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data for June 5, 2022

Attachment B- Copy of GRDF RCA Form (RCA Number 08J18)

Attachment A
GRDF flare data for June 5, 2022

Guadalupe Recycling and Disposal Facility-A3294

Flare Data

		FLARE TEMP		LFG FLOW	
		Deg F		SCFM	
		MIN	MAX	MIN	MAX
2022/06/05	03:00:00	1550	1565	1637	1663
2022/06/05	03:02:00	1558	1563	1631	1664
2022/06/05	03:04:00	1551	1561	1631	1664
2022/06/05	03:06:00	1549	1559	1634	1661
2022/06/05	03:08:00	1558	1566	1627	1658
2022/06/05	03:10:00	1558	1563	1629	1657
2022/06/05	03:12:00	1553	1561	1628	1661
2022/06/05	03:14:00	1553	1566	1627	1660
2022/06/05	03:16:00	1556	1564	1634	1661
2022/06/05	03:18:00	1553	1556	1630	1663
2022/06/05	03:20:00	1548	1559	1634	1663
2022/06/05	03:22:00	1546	1553	1626	1663
2022/06/05	03:24:00	1544	1549	1633	1661
2022/06/05	03:26:00	1549	1566	1637	1663
2022/06/05	03:28:00	1563	1578	1634	1659
2022/06/05	03:30:00	1573	1587	1631	1664
2022/06/05	03:32:00	1536	1573	1632	1661
2022/06/05	03:34:00	1534	1544	1630	1663
2022/06/05	03:36:00	1544	1563	1635	1667
2022/06/05	03:38:00	1563	1570	1635	1663
2022/06/05	03:40:00	1553	1570	1634	1663
2022/06/05	03:42:00	1539	1553	1637	1661
2022/06/05	03:44:00	1541	1568	1628	1663
2022/06/05	03:46:00	1568	1575	1633	1658
2022/06/05	03:48:00	1563	1575	1632	1658
2022/06/05	03:50:00	1563	1568	1630	1661
2022/06/05	03:52:00	1556	1566	1636	1660
2022/06/05	03:54:00	1551	1558	1636	1667
2022/06/05	03:56:00	1549	1554	1637	1664
2022/06/05	03:58:00	1554	1566	1631	1661
2022/06/05	04:00:00	1565	1571	1633	1663
2022/06/05	04:02:00	1551	1566	1636	1670
2022/06/05	04:04:00	1549	1553	1639	1666
2022/06/05	04:06:00	1544	1549	1639	1666
2022/06/05	04:08:00	1549	1563	1634	1664
2022/06/05	04:10:00	1560	1571	1628	1660
2022/06/05	04:12:00	1568	1573	1634	1666
2022/06/05	04:14:00	1544	1571	1630	1658
2022/06/05	04:16:00	1544	1551	1630	1658
2022/06/05	04:18:00	1539	1544	1633	1669
2022/06/05	04:20:00	1544	1563	1633	1660
2022/06/05	04:22:00	1563	1573	1628	1658
2022/06/05	04:24:00	1566	1573	1630	1660
2022/06/05	04:26:00	1555	1568	1627	1660
2022/06/05	04:28:00				
2022/06/05	04:30:00				
2022/06/05	04:32:00				
2022/06/05	04:34:00				
2022/06/05	04:36:00				
2022/06/05	04:38:00				

2022/06/05	04:40:00				
2022/06/05	04:42:00				
2022/06/05	04:44:00				
2022/06/05	04:46:00				
2022/06/05	04:48:00				
2022/06/05	04:50:00				
2022/06/05	04:52:00				
2022/06/05	04:54:00				
2022/06/05	04:56:00				
2022/06/05	04:58:00				
2022/06/05	05:00:00				
2022/06/05	05:02:00				
2022/06/05	05:04:00				
2022/06/05	05:06:00				
2022/06/05	05:08:00				
2022/06/05	05:10:00				
2022/06/05	05:12:00				
2022/06/05	05:14:00				
2022/06/05	05:16:00				
2022/06/05	05:18:00				
2022/06/05	05:20:00	104	119	-2	-1
2022/06/05	05:22:00	116	119	-1	0
2022/06/05	05:24:00	114	116	-1	286
2022/06/05	05:26:00	114	1189	286	1880
2022/06/05	05:28:00	1189	1718	1869	2168
2022/06/05	05:30:00	1571	1693	1874	1996
2022/06/05	05:32:00	1557	1574	1859	1900
2022/06/05	05:34:00	1559	1578	1862	1895
2022/06/05	05:36:00	1540	1559	1847	1877
2022/06/05	05:38:00	1533	1540	1835	1871
2022/06/05	05:40:00	1537	1562	1838	1868
2022/06/05	05:42:00	1562	1590	1824	1863
2022/06/05	05:44:00	1537	1591	1824	1863
2022/06/05	05:46:00	1530	1537	1822	1860
2022/06/05	05:48:00	1534	1554	1824	1857
2022/06/05	05:50:00	1554	1567	1827	1856
2022/06/05	05:52:00	1566	1570	1822	1853
2022/06/05	05:54:00	1563	1571	1822	1848
2022/06/05	05:56:00	1546	1571	1818	1853
2022/06/05	05:58:00	1546	1551	1821	1848
2022/06/05	06:00:00	1549	1564	1811	1848
2022/06/05	06:02:00	1559	1565	1810	1844
2022/06/05	06:04:00	1560	1566	1809	1841
2022/06/05	06:06:00	1558	1563	1806	1841
2022/06/05	06:08:00	1559	1563	1800	1839
2022/06/05	06:10:00	1546	1563	1807	1833
2022/06/05	06:12:00	1547	1550	1800	1830
2022/06/05	06:14:00	1548	1561	1800	1834
2022/06/05	06:16:00	1552	1560	1792	1833
2022/06/05	06:18:00	1541	1552	1792	1827
2022/06/05	06:20:00	1546	1599	1799	1828
2022/06/05	06:22:00	1496	1624	1800	1827
2022/06/05	06:24:00	1510	1604	1789	1830
2022/06/05	06:26:00	1527	1603	1789	1822
2022/06/05	06:28:00	1525	1573	1789	1823
2022/06/05	06:30:00	1573	1584	1791	1825

2022/06/05	06:32:00	1543	1573	1795	1821
2022/06/05	06:34:00	1539	1554	1792	1821
2022/06/05	06:36:00	1551	1561	1789	1816
2022/06/05	06:38:00	1561	1593	1786	1817
2022/06/05	06:40:00	1547	1594	1791	1817
2022/06/05	06:42:00	1532	1547	1782	1816
2022/06/05	06:44:00	1537	1655	1792	1815
2022/06/05	06:46:00	1486	1633	1783	1821
2022/06/05	06:48:00	1518	1592	1791	1821
2022/06/05	06:50:00	1522	1565	1785	1819
2022/06/05	06:52:00	1564	1586	1781	1822
2022/06/05	06:54:00	1580	1585	1795	1824
2022/06/05	06:56:00	1548	1580	1794	1819
2022/06/05	06:58:00	1513	1551	1794	1824
2022/06/05	07:00:00	1505	1563	1791	1826

Attachment B
Copy of GRDF RCA Form for RCA Number 08J18

From: [RCA Notification](#)
To: [Phadnis, Rajan](#)
Cc: [Perez, Enrique](#); [Azevedo, Becky](#); [Colline, Christian](#); [Erin Phillips](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 6.5.2022
Date: Monday, June 6, 2022 2:21:55 PM

I am confirming receipt, the RCA number for your notification is 08J18

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Monday, June 6, 2022 1:46 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Perez, Enrique <pperez3@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage 6.5.2022

CAUTION: This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned power outage on 6.5.2022, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
EP Specialist
For Guadalupe Recycling and Disposal Facility

Recycling is a good thing. Please recycle any printed emails.



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

June 6, 2022 (via email rca@baaqmd.gov)

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on June 5, 2022, ~ 4:28 AM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on June 6, 2022, at ~1:45 PM about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence, or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On June 5, 2022, at ~ 5:28 AM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294 Dated 6.6.2022



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable
Compliance
Activity (RCA)

[See back of form for instructions](#) →

1. **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 4:28 AM on 6/5/2022	Clear Time	~5:28 AM on 6/5/2022
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM	<input type="checkbox"/> ▶ GLM	<input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO
	<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC)	<input type="checkbox"/> ▶ Temperature	<input type="checkbox"/> ▶ Wind Speed
	<input type="checkbox"/> ▶ Wind Direction	<input type="checkbox"/> ▶ Steam	<input checked="" type="checkbox"/> ▶ Other (describe) Power outage
Unit(s) of Measurement	<input type="checkbox"/> ▶ ppm	<input type="checkbox"/> ▶ ppb	<input type="checkbox"/> ▶ min/hr > 20%
	<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit
		<input type="checkbox"/> ▶ inches H ₂ O	<input type="checkbox"/> ▶ mmHg
		<input type="checkbox"/> ▶ Other (describe)	

Event Description:

This breakdown report is being submitted on 6/6/2022 at ~1:30 PM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 6/6/2022.

District Use Only

Received by

Date

Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to rca@baaqmd.gov
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

June 30, 2022 ([via email: compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105
Attn: RCA 30-Day Report

Re: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294
Request for Breakdown Relief for RCA Numbers 08J18
30-Day Written Follow-up Report (Per Regulation 1, Section 432)

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 30-Day follow-up report to the Bay Area Air Quality Management District (BAAQMD) for the PG&E power outage on June 5, 2022.

A breakdown report (Per Regulation 1, Section 431) was submitted by GRDF at ~1:45 PM on June 6, 2022, because the landfill gas collection and control system (GCCS) was temporarily shut down due a PG&E power outage caused due to car-pole accident. The flare was back online at ~5:28 AM on 6/5/2022 (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief to the BAAQMD for the June 6, 2022, PG&E power outage and was assigned RCA number 08J18 (see Attachment B).

The unplanned power outage shutdown event on June 5, 2022, noted in RCA form, did not result in emissions and do not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’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 GRDF’s control.

GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

GRDF has a purchase order for a permanent generator (delayed due to the COVID-19 emergency and related supply chain disruptions) and the supplier anticipates the unit to be delivered by the

fourth quarter of 2022. GRDF submitted the backup generator permit application to the BAAQMD on February 10, 2022 (AN 31599 was assigned). GRDF will also be working on an Automatic Transfer Switch (ATS) electrical permit as required by the City of San Jose.

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

Sincerely,
Guadalupe Recycling & Disposal Facility



Enrique Perez
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data

Attachment B- Copy of GRDF RCA Form -Number 08J18

Attachment A
GRDF flare data

Guadalupe Recycling and Disposal Facility-A3294

Flare Data

		FLARE TEMP		LFG FLOW	
		Deg F		SCFM	
		MIN	MAX	MIN	MAX
2022/06/05	03:00:00	1550	1565	1637	1663
2022/06/05	03:02:00	1558	1563	1631	1664
2022/06/05	03:04:00	1551	1561	1631	1664
2022/06/05	03:06:00	1549	1559	1634	1661
2022/06/05	03:08:00	1558	1566	1627	1658
2022/06/05	03:10:00	1558	1563	1629	1657
2022/06/05	03:12:00	1553	1561	1628	1661
2022/06/05	03:14:00	1553	1566	1627	1660
2022/06/05	03:16:00	1556	1564	1634	1661
2022/06/05	03:18:00	1553	1556	1630	1663
2022/06/05	03:20:00	1548	1559	1634	1663
2022/06/05	03:22:00	1546	1553	1626	1663
2022/06/05	03:24:00	1544	1549	1633	1661
2022/06/05	03:26:00	1549	1566	1637	1663
2022/06/05	03:28:00	1563	1578	1634	1659
2022/06/05	03:30:00	1573	1587	1631	1664
2022/06/05	03:32:00	1536	1573	1632	1661
2022/06/05	03:34:00	1534	1544	1630	1663
2022/06/05	03:36:00	1544	1563	1635	1667
2022/06/05	03:38:00	1563	1570	1635	1663
2022/06/05	03:40:00	1553	1570	1634	1663
2022/06/05	03:42:00	1539	1553	1637	1661
2022/06/05	03:44:00	1541	1568	1628	1663
2022/06/05	03:46:00	1568	1575	1633	1658
2022/06/05	03:48:00	1563	1575	1632	1658
2022/06/05	03:50:00	1563	1568	1630	1661
2022/06/05	03:52:00	1556	1566	1636	1660
2022/06/05	03:54:00	1551	1558	1636	1667
2022/06/05	03:56:00	1549	1554	1637	1664
2022/06/05	03:58:00	1554	1566	1631	1661
2022/06/05	04:00:00	1565	1571	1633	1663
2022/06/05	04:02:00	1551	1566	1636	1670
2022/06/05	04:04:00	1549	1553	1639	1666
2022/06/05	04:06:00	1544	1549	1639	1666
2022/06/05	04:08:00	1549	1563	1634	1664
2022/06/05	04:10:00	1560	1571	1628	1660
2022/06/05	04:12:00	1568	1573	1634	1666
2022/06/05	04:14:00	1544	1571	1630	1658
2022/06/05	04:16:00	1544	1551	1630	1658
2022/06/05	04:18:00	1539	1544	1633	1669
2022/06/05	04:20:00	1544	1563	1633	1660
2022/06/05	04:22:00	1563	1573	1628	1658
2022/06/05	04:24:00	1566	1573	1630	1660
2022/06/05	04:26:00	1555	1568	1627	1660
2022/06/05	04:28:00				
2022/06/05	04:30:00				
2022/06/05	04:32:00				
2022/06/05	04:34:00				
2022/06/05	04:36:00				
2022/06/05	04:38:00				

2022/06/05	04:40:00				
2022/06/05	04:42:00				
2022/06/05	04:44:00				
2022/06/05	04:46:00				
2022/06/05	04:48:00				
2022/06/05	04:50:00				
2022/06/05	04:52:00				
2022/06/05	04:54:00				
2022/06/05	04:56:00				
2022/06/05	04:58:00				
2022/06/05	05:00:00				
2022/06/05	05:02:00				
2022/06/05	05:04:00				
2022/06/05	05:06:00				
2022/06/05	05:08:00				
2022/06/05	05:10:00				
2022/06/05	05:12:00				
2022/06/05	05:14:00				
2022/06/05	05:16:00				
2022/06/05	05:18:00				
2022/06/05	05:20:00	104	119	-2	-1
2022/06/05	05:22:00	116	119	-1	0
2022/06/05	05:24:00	114	116	-1	286
2022/06/05	05:26:00	114	1189	286	1880
2022/06/05	05:28:00	1189	1718	1869	2168
2022/06/05	05:30:00	1571	1693	1874	1996
2022/06/05	05:32:00	1557	1574	1859	1900
2022/06/05	05:34:00	1559	1578	1862	1895
2022/06/05	05:36:00	1540	1559	1847	1877
2022/06/05	05:38:00	1533	1540	1835	1871
2022/06/05	05:40:00	1537	1562	1838	1868
2022/06/05	05:42:00	1562	1590	1824	1863
2022/06/05	05:44:00	1537	1591	1824	1863
2022/06/05	05:46:00	1530	1537	1822	1860
2022/06/05	05:48:00	1534	1554	1824	1857
2022/06/05	05:50:00	1554	1567	1827	1856
2022/06/05	05:52:00	1566	1570	1822	1853
2022/06/05	05:54:00	1563	1571	1822	1848
2022/06/05	05:56:00	1546	1571	1818	1853
2022/06/05	05:58:00	1546	1551	1821	1848
2022/06/05	06:00:00	1549	1564	1811	1848
2022/06/05	06:02:00	1559	1565	1810	1844
2022/06/05	06:04:00	1560	1566	1809	1841
2022/06/05	06:06:00	1558	1563	1806	1841
2022/06/05	06:08:00	1559	1563	1800	1839
2022/06/05	06:10:00	1546	1563	1807	1833
2022/06/05	06:12:00	1547	1550	1800	1830
2022/06/05	06:14:00	1548	1561	1800	1834
2022/06/05	06:16:00	1552	1560	1792	1833
2022/06/05	06:18:00	1541	1552	1792	1827
2022/06/05	06:20:00	1546	1599	1799	1828
2022/06/05	06:22:00	1496	1624	1800	1827
2022/06/05	06:24:00	1510	1604	1789	1830
2022/06/05	06:26:00	1527	1603	1789	1822
2022/06/05	06:28:00	1525	1573	1789	1823
2022/06/05	06:30:00	1573	1584	1791	1825

2022/06/05	06:32:00	1543	1573	1795	1821
2022/06/05	06:34:00	1539	1554	1792	1821
2022/06/05	06:36:00	1551	1561	1789	1816
2022/06/05	06:38:00	1561	1593	1786	1817
2022/06/05	06:40:00	1547	1594	1791	1817
2022/06/05	06:42:00	1532	1547	1782	1816
2022/06/05	06:44:00	1537	1655	1792	1815
2022/06/05	06:46:00	1486	1633	1783	1821
2022/06/05	06:48:00	1518	1592	1791	1821
2022/06/05	06:50:00	1522	1565	1785	1819
2022/06/05	06:52:00	1564	1586	1781	1822
2022/06/05	06:54:00	1580	1585	1795	1824
2022/06/05	06:56:00	1548	1580	1794	1819
2022/06/05	06:58:00	1513	1551	1794	1824
2022/06/05	07:00:00	1505	1563	1791	1826

Attachment B
Copy of GRDF RCA Form-Numbers 08J18

From: [RCA Notification](#)
To: [Phadnis, Rajan](#)
Cc: [Perez, Enrique](#); [Azevedo, Becky](#); [Colline, Christian](#); [Erin Phillips](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 6.5.2022
Date: Monday, June 6, 2022 2:21:55 PM

I am confirming receipt, the RCA number for your notification is 08J18

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Monday, June 6, 2022 1:46 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Perez, Enrique <pperez3@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage 6.5.2022

CAUTION: This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned power outage on 6.5.2022, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
EP Specialist
For Guadalupe Recycling and Disposal Facility

Recycling is a good thing. Please recycle any printed emails.



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

June 6, 2022 (via email rca@baaqmd.gov)

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on June 5, 2022, ~ 4:28 AM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on June 6, 2022, at ~1:45 PM about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD’s RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence, or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On June 5, 2022, at ~ 5:28 AM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294 Dated 6.6.2022



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable
Compliance
Activity (RCA)

[See back of form for instructions](#) →

1. **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 4:28 AM on 6/5/2022	Clear Time	~5:28 AM on 6/5/2022
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM	<input type="checkbox"/> ▶ GLM	<input type="checkbox"/> ▶ Parametric
	<input type="checkbox"/> ▶ PRD	<input type="checkbox"/> ▶ Non-monitor	
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO
	<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC)	<input type="checkbox"/> ▶ Temperature	<input type="checkbox"/> ▶ Wind Speed
	<input type="checkbox"/> ▶ Wind Direction	<input type="checkbox"/> ▶ Steam	<input checked="" type="checkbox"/> ▶ Other (describe) Power outage
Unit(s) of Measurement	<input type="checkbox"/> ▶ ppm	<input type="checkbox"/> ▶ ppb	<input type="checkbox"/> ▶ min/hr > 20%
	<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit
	<input type="checkbox"/> ▶ inches H ₂ O	<input type="checkbox"/> ▶ mmHg	<input type="checkbox"/> ▶ Other (describe)

Event Description:

This breakdown report is being submitted on 6/6/2022 at ~1:30 PM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 6/6/2022.

District Use Only

Received by

Date

Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to rca@baaqmd.gov
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: You may have additional report requirements under Title V.

Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

July 14, 2022 (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: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294
Section I.F Title V, 10 and 30-Day written report
RCA Number 08K15

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 10 and 30-day Title V written report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for GRDF.

A breakdown report was submitted on July 12, 2022, at around 11:25 AM because the landfill gas collection and control system (GCCS) temporarily shut down due to the PG&E power outage (caused due to due to a Wire Down Outage – Broken Pole Equipment). The flare was back online on June 11, 2022, around 8:15 PM (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief from BAAQMD for the July 11, 2022, PG&E power outage via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on July 12, 2022, at around 11:25 AM and was assigned RCA numbers 08K15 (see Attachment B for copy of RCA and submittal).

The unplanned power outage shutdown events noted in RCA form submitted on July 12, 2022, did not result in emissions, and do not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit GRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control.

GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

GRDF placed purchase order for a permanent generator in October 2021, and the unit was delivered in July 2022 (delayed due to the COVID-19 emergency and related supply chain disruptions). GRDF submitted the backup generator permit application to the BAAQMD on February 10, 2022 (AN 31599 was assigned). GRDF will also be working on an Automatic Transfer Switch (ATS) electrical permit as required by the City of San Jose.

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

Sincerely,

Guadalupe Recycling & Disposal Facility

A handwritten signature in cursive script that reads "Paul Enrique Perez".

Enrique Perez
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data for July 11, 2022

Attachment B- Copy of GRDF RCA Form (RCA Number 08K15)

Attachment A
GRDF flare data for July 11, 2022

Guadalupe Recycling and Disposal Facility-A3294

Flare Data

		FLARE TEMP		LFG FLOW	
		Deg F		SCFM	
		MIN	MAX	MIN	MAX
2022/07/11	17:00:00	1553	1573	1529	1550
2022/07/11	17:02:00	1554	1573	1528	1557
2022/07/11	17:04:00	1556	1575	1530	1557
2022/07/11	17:06:00	1555	1559	1528	1554
2022/07/11	17:08:00	1554	1565	1529	1556
2022/07/11	17:10:00	1541	1559	1529	1551
2022/07/11	17:12:00	1541	1556	1533	1557
2022/07/11	17:14:00	1548	1556	1527	1553
2022/07/11	17:16:00	1554	1573	1528	1555
2022/07/11	17:18:00	1564	1570	1533	1553
2022/07/11	17:20:00	1564	1580	1526	1551
2022/07/11	17:22:00	1553	1576	1522	1556
2022/07/11	17:24:00	1553	1558	1526	1554
2022/07/11	17:26:00	1556	1561	1523	1554
2022/07/11	17:28:00	1561	1571	1525	1554
2022/07/11	17:30:00	1560	1566	1524	1548
2022/07/11	17:32:00	1551	1561	1528	1553
2022/07/11	17:34:00	1545	1551	1528	1551
2022/07/11	17:36:00	1551	1568	1526	1550
2022/07/11	17:38:00	1546	1566	1525	1551
2022/07/11	17:40:00	1545	1551	1521	1549
2022/07/11	17:42:00	1545	1559	1528	1547
2022/07/11	17:44:00	1558	1570	1521	1548
2022/07/11	17:46:00	1562	1571	1516	1548
2022/07/11	17:48:00	1561	1570	1519	1545
2022/07/11	17:50:00	1554	1571	1521	1548
2022/07/11	17:52:00	1551	1556	1519	1544
2022/07/11	17:54:00	1553	1563	1521	1550
2022/07/11	17:56:00	1551	1554	1521	1542
2022/07/11	17:58:00	1553	1556	1514	1544
2022/07/11	18:00:00	1553	1566	1516	1545
2022/07/11	18:02:00	1558	1566	1522	1545
2022/07/11	18:04:00	1558	1568	1517	1539
2022/07/11	18:06:00	1558	1568	1515	1539
2022/07/11	18:08:00	1559	1568	1516	1537
2022/07/11	18:10:00	1553	1568	1518	1547
2022/07/11	18:12:00	1553	1566	1513	1543
2022/07/11	18:14:00	1554	1570	1515	1534
2022/07/11	18:16:00	1537	1554	1510	1536
2022/07/11	18:18:00	1537	1561	1510	1548
2022/07/11	18:20:00	1561	1580	1515	1537
2022/07/11	18:22:00	1563	1578	1509	1537
2022/07/11	18:24:00	1541	1563	1513	1534
2022/07/11	18:26:00	1541	1550	1515	1534
2022/07/11	18:28:00	1548	1570	1506	1537

2022/07/11	18:30:00	1568	1582	1509	1536
2022/07/11	18:32:00	1563	1582	1507	1531
2022/07/11	18:34:00	1563	1568	1507	1537
2022/07/11	18:36:00				
2022/07/11	18:38:00				
2022/07/11	18:40:00				
2022/07/11	18:42:00				
2022/07/11	18:44:00				
2022/07/11	18:46:00				
2022/07/11	18:48:00				
2022/07/11	18:50:00				
2022/07/11	18:52:00				
2022/07/11	18:54:00				
2022/07/11	18:56:00				
2022/07/11	18:58:00				
2022/07/11	19:00:00				
2022/07/11	19:02:00				
2022/07/11	19:04:00				
2022/07/11	19:06:00				
2022/07/11	19:08:00				
2022/07/11	19:10:00				
2022/07/11	19:12:00				
2022/07/11	19:14:00				
2022/07/11	19:16:00				
2022/07/11	19:18:00				
2022/07/11	19:20:00				
2022/07/11	19:22:00				
2022/07/11	19:24:00				
2022/07/11	19:26:00				
2022/07/11	19:28:00				
2022/07/11	19:30:00				
2022/07/11	19:32:00				
2022/07/11	19:34:00				
2022/07/11	19:36:00				
2022/07/11	19:38:00				
2022/07/11	19:40:00				
2022/07/11	19:42:00				
2022/07/11	19:44:00				
2022/07/11	19:46:00				
2022/07/11	19:48:00				
2022/07/11	19:50:00				
2022/07/11	19:52:00				
2022/07/11	19:54:00				
2022/07/11	19:56:00				
2022/07/11	19:58:00				
2022/07/11	20:00:00	102	106	0	1
2022/07/11	20:02:00	105	126	0	1443
2022/07/11	20:04:00	126	1860	1443	1865
2022/07/11	20:06:00	1461	1784	1648	1783
2022/07/11	20:08:00	1464	1566	1605	1666
2022/07/11	20:10:00	1566	1599	1583	1627

2022/07/11	20:12:00	1544	1588	1564	1603
2022/07/11	20:14:00	1527	1544	1561	1591
2022/07/11	20:16:00	1530	1578	1555	1588
2022/07/11	20:18:00	1578	1587	1555	1577
2022/07/11	20:20:00	1563	1580	1547	1571
2022/07/11	20:22:00	1550	1563	1541	1569
2022/07/11	20:24:00	1550	1556	1541	1567
2022/07/11	20:26:00	1551	1565	1532	1564
2022/07/11	20:28:00	1550	1563	1531	1558
2022/07/11	20:30:00	1548	1555	1537	1556
2022/07/11	20:32:00	1554	1559	1528	1558
2022/07/11	20:34:00	1558	1565	1529	1553
2022/07/11	20:36:00	1562	1566	1526	1550
2022/07/11	20:38:00	1560	1565	1524	1546
2022/07/11	20:40:00	1555	1565	1517	1547
2022/07/11	20:42:00	1550	1558	1522	1544
2022/07/11	20:44:00	1553	1560	1517	1538
2022/07/11	20:46:00	1548	1555	1513	1542
2022/07/11	20:48:00	1548	1557	1514	1534
2022/07/11	20:50:00	1557	1560	1511	1535
2022/07/11	20:52:00	1558	1565	1503	1530
2022/07/11	20:54:00	1560	1565	1508	1532
2022/07/11	20:56:00	1562	1565	1505	1528
2022/07/11	20:58:00	1559	1566	1503	1526
2022/07/11	21:00:00	1559	1565	1498	1524
2022/07/11	21:02:00	1559	1563	1497	1522
2022/07/11	21:04:00	1559	1565	1493	1519
2022/07/11	21:06:00	1559	1568	1495	1523
2022/07/11	21:08:00	1558	1560	1492	1520
2022/07/11	21:10:00	1554	1558	1494	1517
2022/07/11	21:12:00	1553	1558	1492	1523
2022/07/11	21:14:00	1548	1553	1491	1517
2022/07/11	21:16:00	1551	1555	1490	1509
2022/07/11	21:18:00	1553	1562	1485	1515
2022/07/11	21:20:00	1552	1562	1488	1511
2022/07/11	21:22:00	1551	1558	1489	1514
2022/07/11	21:24:00	1554	1559	1487	1512
2022/07/11	21:26:00	1553	1568	1485	1505
2022/07/11	21:28:00	1568	1573	1479	1505
2022/07/11	21:30:00	1565	1573	1481	1503

Attachment B
Copy of GRDF RCA Form for RCA Number 08K15

From: [RCA Notification](#)
To: [Phadnis, Rajan](#)
Cc: [Perez, Enrique](#); [Azevedo, Becky](#); [Colline, Christian](#); [Erin Phillips](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage
Date: Tuesday, July 12, 2022 12:18:36 PM

I am confirming receipt, the RCA for your notification is 08K15

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Tuesday, July 12, 2022 11:26 AM
To: RCA Notification <rca@baaqmd.gov>
Cc: Perez, Enrique <pperez3@wm.com>; Phadnis, Rajan <rphadnis@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage

CAUTION: This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned PG&E power outage on 7/11/2022, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

July 12, 2022 (via email rca@baaqmd.gov)

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on June 11, 2022, at ~ 6:36 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on June 12, 2022, at ~ 11:25 AM about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD’s RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence, or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On June 11, 2022, at ~8:04 PM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294 Dated 7.12.2022



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable
Compliance
Activity (RCA)

[See back of form for instructions](#) →

1. **BREAKDOWN RELIEF: District Use Only** BREAKDOWN REFERENCE #:

2. NA **MONITOR EXCESS EMISSION or EXCURSION: District Use Only** REFERENCE #:

3. NA **MONITOR IS INOPERATIVE: District Use Only** REFERENCE #:

4. NA **PRESSURE RELIEF DEVICE (PRD): District Use Only** PRD REFERENCE #:

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 6:36 PM on 7/11/2022	Clear Time	~ 8:04 PM on 7/11/2022
Monitor/device type(s)	<input type="checkbox"/> CEM <input type="checkbox"/> GLM <input type="checkbox"/> Parametric <input type="checkbox"/> PRD <input type="checkbox"/> Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> NO _x <input type="checkbox"/> SO ₂ <input type="checkbox"/> CO <input type="checkbox"/> CO ₂ <input type="checkbox"/> H ₂ S <input type="checkbox"/> TRS <input type="checkbox"/> NH ₃		
	<input type="checkbox"/> O ₂ <input type="checkbox"/> H ₂ O <input type="checkbox"/> Opacity <input type="checkbox"/> Lead <input type="checkbox"/> Gauge Pressure <input type="checkbox"/> Flow		
	<input type="checkbox"/> Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> Temperature <input type="checkbox"/> Wind Speed		
	<input type="checkbox"/> Wind Direction <input type="checkbox"/> Steam <input checked="" type="checkbox"/> Other (describe) Power outage		
Unit(s) of Measurement			
	<input type="checkbox"/> ppm <input type="checkbox"/> ppb <input type="checkbox"/> min/hr > 20% <input type="checkbox"/> inches H ₂ O <input type="checkbox"/> mmHg		
	<input type="checkbox"/> psig <input type="checkbox"/> pH <input type="checkbox"/> °Fahrenheit <input type="checkbox"/> Other (describe)		

Event Description:

This breakdown report is being submitted on 7/11/2022 at ~ 6:36 PM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 7/12/2022.

District Use Only

Received by

Date

Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
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Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

July 14, 2022 (via email: compliance@baaqmd.gov)

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105
Attn: RCA 30-Day Report

Re: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294
Request for Breakdown Relief for RCA Numbers 08K15
30-Day Written Follow-up Report (Per Regulation 1, Section 432)

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 30-Day follow-up report to the Bay Area Air Quality Management District (BAAQMD) for the PG&E power outage on July 11, 2022.

A breakdown report (Per Regulation 1, Section 431) was submitted by GRDF at ~11:25 AM on July 12, 2022, because the landfill gas collection and control system (GCCS) was temporarily shut down due a PG&E power outage caused due to a Wire Down Outage – Broken Pole Equipment. The flare was back online at ~8:15 PM on 7/11/2022 (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief to the BAAQMD for the July 12, 2022, PG&E power outage and was assigned RCA number 08K15 (see Attachment B).

The unplanned power outage shutdown event noted in RCA form on July 11, 2022, did not result in emissions and do not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit GRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control.

GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

GRDF placed purchase order for a permanent generator in October 2021, and the unit was delivered in July 2022 (delayed due to the COVID-19 emergency and related supply chain disruptions). GRDF submitted the backup generator permit application to the BAAQMD on February 10, 2022 (AN 31599 was assigned). GRDF will also be working on an Automatic Transfer Switch (ATS) electrical permit as required by the City of San Jose.

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

Sincerely,

Guadalupe Recycling & Disposal Facility

A handwritten signature in cursive script that reads "Paul Enrique Perez".

Enrique Perez
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data for 7.11.2022

Attachment B- Copy of GRDF RCA Form -Number 08K15

Attachment A
GRDF flare data for July 11, 2022

Guadalupe Recycling and Disposal Facility-A3294

Flare Data

		FLARE TEMP		LFG FLOW	
		Deg F		SCFM	
		MIN	MAX	MIN	MAX
2022/07/11	17:00:00	1553	1573	1529	1550
2022/07/11	17:02:00	1554	1573	1528	1557
2022/07/11	17:04:00	1556	1575	1530	1557
2022/07/11	17:06:00	1555	1559	1528	1554
2022/07/11	17:08:00	1554	1565	1529	1556
2022/07/11	17:10:00	1541	1559	1529	1551
2022/07/11	17:12:00	1541	1556	1533	1557
2022/07/11	17:14:00	1548	1556	1527	1553
2022/07/11	17:16:00	1554	1573	1528	1555
2022/07/11	17:18:00	1564	1570	1533	1553
2022/07/11	17:20:00	1564	1580	1526	1551
2022/07/11	17:22:00	1553	1576	1522	1556
2022/07/11	17:24:00	1553	1558	1526	1554
2022/07/11	17:26:00	1556	1561	1523	1554
2022/07/11	17:28:00	1561	1571	1525	1554
2022/07/11	17:30:00	1560	1566	1524	1548
2022/07/11	17:32:00	1551	1561	1528	1553
2022/07/11	17:34:00	1545	1551	1528	1551
2022/07/11	17:36:00	1551	1568	1526	1550
2022/07/11	17:38:00	1546	1566	1525	1551
2022/07/11	17:40:00	1545	1551	1521	1549
2022/07/11	17:42:00	1545	1559	1528	1547
2022/07/11	17:44:00	1558	1570	1521	1548
2022/07/11	17:46:00	1562	1571	1516	1548
2022/07/11	17:48:00	1561	1570	1519	1545
2022/07/11	17:50:00	1554	1571	1521	1548
2022/07/11	17:52:00	1551	1556	1519	1544
2022/07/11	17:54:00	1553	1563	1521	1550
2022/07/11	17:56:00	1551	1554	1521	1542
2022/07/11	17:58:00	1553	1556	1514	1544
2022/07/11	18:00:00	1553	1566	1516	1545
2022/07/11	18:02:00	1558	1566	1522	1545
2022/07/11	18:04:00	1558	1568	1517	1539
2022/07/11	18:06:00	1558	1568	1515	1539
2022/07/11	18:08:00	1559	1568	1516	1537
2022/07/11	18:10:00	1553	1568	1518	1547
2022/07/11	18:12:00	1553	1566	1513	1543
2022/07/11	18:14:00	1554	1570	1515	1534
2022/07/11	18:16:00	1537	1554	1510	1536
2022/07/11	18:18:00	1537	1561	1510	1548
2022/07/11	18:20:00	1561	1580	1515	1537
2022/07/11	18:22:00	1563	1578	1509	1537
2022/07/11	18:24:00	1541	1563	1513	1534
2022/07/11	18:26:00	1541	1550	1515	1534
2022/07/11	18:28:00	1548	1570	1506	1537

2022/07/11	18:30:00	1568	1582	1509	1536
2022/07/11	18:32:00	1563	1582	1507	1531
2022/07/11	18:34:00	1563	1568	1507	1537
2022/07/11	18:36:00				
2022/07/11	18:38:00				
2022/07/11	18:40:00				
2022/07/11	18:42:00				
2022/07/11	18:44:00				
2022/07/11	18:46:00				
2022/07/11	18:48:00				
2022/07/11	18:50:00				
2022/07/11	18:52:00				
2022/07/11	18:54:00				
2022/07/11	18:56:00				
2022/07/11	18:58:00				
2022/07/11	19:00:00				
2022/07/11	19:02:00				
2022/07/11	19:04:00				
2022/07/11	19:06:00				
2022/07/11	19:08:00				
2022/07/11	19:10:00				
2022/07/11	19:12:00				
2022/07/11	19:14:00				
2022/07/11	19:16:00				
2022/07/11	19:18:00				
2022/07/11	19:20:00				
2022/07/11	19:22:00				
2022/07/11	19:24:00				
2022/07/11	19:26:00				
2022/07/11	19:28:00				
2022/07/11	19:30:00				
2022/07/11	19:32:00				
2022/07/11	19:34:00				
2022/07/11	19:36:00				
2022/07/11	19:38:00				
2022/07/11	19:40:00				
2022/07/11	19:42:00				
2022/07/11	19:44:00				
2022/07/11	19:46:00				
2022/07/11	19:48:00				
2022/07/11	19:50:00				
2022/07/11	19:52:00				
2022/07/11	19:54:00				
2022/07/11	19:56:00				
2022/07/11	19:58:00				
2022/07/11	20:00:00	102	106	0	1
2022/07/11	20:02:00	105	126	0	1443
2022/07/11	20:04:00	126	1860	1443	1865
2022/07/11	20:06:00	1461	1784	1648	1783
2022/07/11	20:08:00	1464	1566	1605	1666
2022/07/11	20:10:00	1566	1599	1583	1627

2022/07/11	20:12:00	1544	1588	1564	1603
2022/07/11	20:14:00	1527	1544	1561	1591
2022/07/11	20:16:00	1530	1578	1555	1588
2022/07/11	20:18:00	1578	1587	1555	1577
2022/07/11	20:20:00	1563	1580	1547	1571
2022/07/11	20:22:00	1550	1563	1541	1569
2022/07/11	20:24:00	1550	1556	1541	1567
2022/07/11	20:26:00	1551	1565	1532	1564
2022/07/11	20:28:00	1550	1563	1531	1558
2022/07/11	20:30:00	1548	1555	1537	1556
2022/07/11	20:32:00	1554	1559	1528	1558
2022/07/11	20:34:00	1558	1565	1529	1553
2022/07/11	20:36:00	1562	1566	1526	1550
2022/07/11	20:38:00	1560	1565	1524	1546
2022/07/11	20:40:00	1555	1565	1517	1547
2022/07/11	20:42:00	1550	1558	1522	1544
2022/07/11	20:44:00	1553	1560	1517	1538
2022/07/11	20:46:00	1548	1555	1513	1542
2022/07/11	20:48:00	1548	1557	1514	1534
2022/07/11	20:50:00	1557	1560	1511	1535
2022/07/11	20:52:00	1558	1565	1503	1530
2022/07/11	20:54:00	1560	1565	1508	1532
2022/07/11	20:56:00	1562	1565	1505	1528
2022/07/11	20:58:00	1559	1566	1503	1526
2022/07/11	21:00:00	1559	1565	1498	1524
2022/07/11	21:02:00	1559	1563	1497	1522
2022/07/11	21:04:00	1559	1565	1493	1519
2022/07/11	21:06:00	1559	1568	1495	1523
2022/07/11	21:08:00	1558	1560	1492	1520
2022/07/11	21:10:00	1554	1558	1494	1517
2022/07/11	21:12:00	1553	1558	1492	1523
2022/07/11	21:14:00	1548	1553	1491	1517
2022/07/11	21:16:00	1551	1555	1490	1509
2022/07/11	21:18:00	1553	1562	1485	1515
2022/07/11	21:20:00	1552	1562	1488	1511
2022/07/11	21:22:00	1551	1558	1489	1514
2022/07/11	21:24:00	1554	1559	1487	1512
2022/07/11	21:26:00	1553	1568	1485	1505
2022/07/11	21:28:00	1568	1573	1479	1505
2022/07/11	21:30:00	1565	1573	1481	1503

Attachment B
Copy of GRDF RCA Form for RCA Number 08K15

From: [RCA Notification](#)
To: [Phadnis, Rajan](#)
Cc: [Perez, Enrique](#); [Azevedo, Becky](#); [Colline, Christian](#); [Erin Phillips](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage
Date: Tuesday, July 12, 2022 12:18:36 PM

I am confirming receipt, the RCA for your notification is 08K15

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Tuesday, July 12, 2022 11:26 AM
To: RCA Notification <rca@baaqmd.gov>
Cc: Perez, Enrique <pperez3@wm.com>; Phadnis, Rajan <rphadnis@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage

CAUTION: This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned PG&E power outage on 7/11/2022, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

July 12, 2022 (via email rca@baaqmd.gov)

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on June 11, 2022, at ~ 6:36 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on June 12, 2022, at ~ 11:25 AM about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD’s RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence, or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On June 11, 2022, at ~8:04 PM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294 Dated 7.12.2022



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable
Compliance
Activity (RCA)

[See back of form for instructions](#) →

1. **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 6:36 PM on 7/11/2022	Clear Time	~ 8:04 PM on 7/11/2022
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO _x <input type="checkbox"/> ▶ SO ₂ <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO ₂ <input type="checkbox"/> ▶ H ₂ S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH ₃		
	<input type="checkbox"/> ▶ O ₂ <input type="checkbox"/> ▶ H ₂ O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power outage		
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H ₂ O <input type="checkbox"/> ▶ mmHg			
<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input type="checkbox"/> ▶ Other (describe)			

Event Description:

This breakdown report is being submitted on 7/11/2022 at ~ 6:36 PM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 7/12/2022.

District Use Only

Received by

Date

Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to rca@baaqmd.gov
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

August 10, 2022 (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: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294
Section I.F Title V, 10 and 30-Day written report
RCA Number 08K82

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 10 and 30-day Title V written report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for GRDF.

A breakdown report was submitted on August 8, 2022, at around 1:25 PM because the landfill gas collection and control system (GCCS) temporarily shut down due to the PG&E power outage (caused due to due to a Wire Down Outage). The flare was back online on August 8, 2022, around 11:58 AM (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief from BAAQMD for the August 8, 2022, PG&E power outage via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on August 8, 2022, at around 1:25 PM and was assigned RCA numbers 08K82 (see Attachment B for copy of RCA and submittal).

The unplanned power outage shutdown events noted in RCA form submitted on August 8, did not result in emissions, and does not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit GRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control.

GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

GRDF placed purchase order for a permanent generator in October 2021, and the unit was delivered in July 2022 (delayed due to the COVID-19 emergency and related supply chain disruptions). GRDF submitted the backup generator permit application to the BAAQMD on February 10, 2022 (AN 31599 was assigned). GRDF will also be working on an electrical permit for the Automatic Transfer Switch (ATS) as required by the City of San Jose.

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

Sincerely,

Guadalupe Recycling & Disposal Facility

A handwritten signature in cursive script that reads "Paul Enrique Perez".

Enrique Perez
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data for August 8, 2022

Attachment B- Copy of GRDF RCA Form (RCA Number 08K82)

Attachment A
GRDF flare data for August 8, 2022

Guadalupe Recycling and Disposal Facility-A3294

Flare Data

		FLARE TEMP		LFG FLOW	
		Deg F		SCFM	
		MIN	MAX	MIN	MAX
2022/08/08	10:00:00	1540	1551	1523	1558
2022/08/08	10:02:00	1544	1558	1522	1550
2022/08/08	10:04:00	1558	1562	1515	1550
2022/08/08	10:06:00	1545	1564	1530	1555
2022/08/08	10:08:00	1545	1569	1527	1551
2022/08/08	10:10:00	1569	1574	1527	1550
2022/08/08	10:12:00	1566	1577	1523	1553
2022/08/08	10:14:00	1556	1566	1527	1553
2022/08/08	10:16:00	1548	1561	1527	1556
2022/08/08	10:18:00	1559	1566	1527	1555
2022/08/08	10:20:00	1555	1566	1527	1555
2022/08/08	10:22:00	1552	1556	1530	1555
2022/08/08	10:24:00	1553	1561	1526	1552
2022/08/08	10:26:00	1545	1553	1524	1556
2022/08/08	10:28:00	1545	1555	1532	1553
2022/08/08	10:30:00	1553	1557	1529	1555
2022/08/08	10:32:00	1553	1572	1527	1557
2022/08/08	10:34:00	1572	1573	1532	1551
2022/08/08	10:36:00	1557	1572	1527	1552
2022/08/08	10:38:00	1556	1567	1530	1558
2022/08/08	10:40:00	1535	1566	1535	1555
2022/08/08	10:42:00	1533	1543	1533	1556
2022/08/08	10:44:00	1543	1550	1530	1561
2022/08/08	10:46:00	1550	1574	1521	1553
2022/08/08	10:48:00	1574	1576	1532	1559
2022/08/08	10:50:00	1550	1576	1530	1556
2022/08/08	10:52:00	1535	1550	1529	1558
2022/08/08	10:54:00	1535	1555	1523	1547
2022/08/08	10:56:00	1552	1559	1523	1551
2022/08/08	10:58:00	1552	1560	1523	1547
2022/08/08	11:00:00	1560	1565	1515	1550
2022/08/08	11:02:00	1564	1567	1519	1548
2022/08/08	11:04:00	1562	1571	1526	1548
2022/08/08	11:06:00				
2022/08/08	11:08:00				
2022/08/08	11:10:00				
2022/08/08	11:12:00				
2022/08/08	11:14:00				
2022/08/08	11:16:00				
2022/08/08	11:18:00				
2022/08/08	11:20:00				
2022/08/08	11:22:00				
2022/08/08	11:24:00				
2022/08/08	11:26:00				
2022/08/08	11:28:00				
2022/08/08	11:30:00				
2022/08/08	11:32:00				
2022/08/08	11:34:00				
2022/08/08	11:36:00				
2022/08/08	11:38:00				
2022/08/08	11:40:00				
2022/08/08	11:42:00				
2022/08/08	11:44:00				
2022/08/08	11:46:00				
2022/08/08	11:48:00				
2022/08/08	11:50:00				
2022/08/08	11:52:00				
2022/08/08	11:54:00	125	135	1	1
2022/08/08	11:56:00	130	133	1	2
2022/08/08	11:58:00	129	199	2	1478
2022/08/08	12:00:00	199	1651	1478	1859
2022/08/08	12:02:00	1512	1663	1625	1750
2022/08/08	12:04:00	1503	1688	1627	1656
2022/08/08	12:06:00	1519	1640	1612	1647

2022/08/08	12:08:00	1491	1625	1604	1644
2022/08/08	12:10:00	1529	1655	1612	1650
2022/08/08	12:12:00	1521	1584	1606	1636
2022/08/08	12:14:00	1533	1569	1607	1637
2022/08/08	12:16:00	1569	1578	1612	1633
2022/08/08	12:18:00	1568	1572	1609	1631
2022/08/08	12:20:00	1546	1568	1610	1631
2022/08/08	12:22:00	1536	1546	1606	1631
2022/08/08	12:24:00	1522	1551	1607	1640
2022/08/08	12:26:00	1551	1595	1605	1630
2022/08/08	12:28:00	1568	1595	1607	1637
2022/08/08	12:30:00	1542	1569	1601	1633
2022/08/08	12:32:00	1535	1542	1606	1637
2022/08/08	12:34:00	1533	1570	1604	1632
2022/08/08	12:36:00	1569	1581	1606	1628
2022/08/08	12:38:00	1572	1581	1597	1628
2022/08/08	12:40:00	1555	1572	1607	1632
2022/08/08	12:42:00	1555	1558	1604	1633
2022/08/08	12:44:00	1553	1560	1602	1628
2022/08/08	12:46:00	1559	1562	1600	1628
2022/08/08	12:48:00	1554	1560	1605	1627
2022/08/08	12:50:00	1548	1559	1600	1625
2022/08/08	12:52:00	1557	1564	1604	1629
2022/08/08	12:54:00	1559	1564	1603	1629
2022/08/08	12:56:00	1559	1565	1598	1630
2022/08/08	12:58:00	1554	1565	1604	1630
2022/08/08	13:00:00	1550	1560	1597	1625
2022/08/08	13:02:00	1552	1560	1601	1627
2022/08/08	13:04:00	1547	1555	1603	1628
2022/08/08	13:06:00	1554	1559	1598	1628
2022/08/08	13:08:00	1555	1564	1604	1628
2022/08/08	13:10:00	1557	1565	1598	1625
2022/08/08	13:12:00	1559	1562	1589	1630
2022/08/08	13:14:00	1560	1564	1601	1623
2022/08/08	13:16:00	1559	1564	1601	1627
2022/08/08	13:18:00	1559	1565	1605	1625
2022/08/08	13:20:00	1545	1559	1599	1628
2022/08/08	13:22:00	1549	1559	1595	1628
2022/08/08	13:24:00	1557	1564	1596	1628
2022/08/08	13:26:00	1554	1563	1604	1634
2022/08/08	13:28:00	1550	1554	1592	1627
2022/08/08	13:30:00	1554	1571	1601	1630

Attachment B
Copy of GRDF RCA Form for RCA Number 08K82

From: [Phadnis, Rajan](#)
To: [RCA Notification](#)
Cc: [Azevedo, Becky](#); [Perez, Enrique](#); [Colline, Christian](#); [Erin Phillips](#); [Phadnis, Rajan](#)
Subject: RE: GRDF A3294-RCA for PG&E power outage 8.8.2022-Updated RCA form
Date: Tuesday, August 9, 2022 10:16:45 AM
Attachments: [GRDC RCA Notification Form Updated-RCA 08K82 8-9-2022.pdf](#)

Thank you.

Please see attached with updated RCA form with details of Clear Time (RCA Number 08K82).

Thanks,
Rajan

From: RCA Notification <rca@baaqmd.gov>
Sent: Monday, August 8, 2022 2:44 PM
To: Phadnis, Rajan <rphadnis@wm.com>
Cc: Azevedo, Becky <Razevedo@wm.com>; Perez, Enrique <pperez3@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 8.8.2022

Good afternoon I am confirming receipt, and letting you know the RCA for your notification is 08K82

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Monday, August 8, 2022 1:24 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Azevedo, Becky <Razevedo@wm.com>; Perez, Enrique <pperez3@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage 8.8.2022

CAUTION: This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned PG&E power outage on 8/8/2022, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility

Recycling is a good thing. Please recycle any printed emails.



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable
Compliance
Activity (RCA)

[See back of form for instructions](#) →

1. **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 11:00 AM on 8/8/2022	Clear Time	~11:58 AM on 8/8/22
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO _x <input type="checkbox"/> ▶ SO ₂ <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO ₂ <input type="checkbox"/> ▶ H ₂ S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH ₃		
	<input type="checkbox"/> ▶ O ₂ <input type="checkbox"/> ▶ H ₂ O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power outage		
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H ₂ O <input type="checkbox"/> ▶ mmHg			
<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input type="checkbox"/> ▶ Other (describe)			

Event Description:

UPDATED Form on 8/9/22 (Assigned RCA Number 08K82) with Clear Time.

This breakdown report is being submitted on 8/8/2022 at ~ 11:00 AM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 8/8/2022.

District Use Only

Received by

Date

Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to rca@baaqmd.gov
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

August 8, 2022 (via email rca@baaqmd.gov)

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on August 8, 2022, at ~ 11:00 AM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on August 8, 2022, at ~ 1:15 PM about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence, or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

The shutdown event was unforeseeable & unpreventable at GRDF.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294 Dated 8.8.2022



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable
Compliance
Activity (RCA)

[See back of form for instructions](#) →

1. **BREAKDOWN RELIEF: District Use Only** BREAKDOWN REFERENCE #:

2. NA **MONITOR EXCESS EMISSION or EXCURSION: District Use Only** REFERENCE #:

3. NA **MONITOR IS INOPERATIVE: District Use Only** REFERENCE #:

4. NA **PRESSURE RELIEF DEVICE (PRD): District Use Only** PRD REFERENCE #:

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 11:00 AM on 8/8/2022	Clear Time	
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)			
Parameter(s) exceeded or not functioning due to inoperation			
<input type="checkbox"/> ▶ NO _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO ₂
<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity	<input type="checkbox"/> ▶ Lead
<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC)	<input type="checkbox"/> ▶ Temperature	<input type="checkbox"/> ▶ Wind Speed	<input type="checkbox"/> ▶ H ₂ S
<input type="checkbox"/> ▶ Wind Direction	<input type="checkbox"/> ▶ Steam	<input checked="" type="checkbox"/> ▶ Other (describe) Power outage	<input type="checkbox"/> ▶ TRS
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm	<input type="checkbox"/> ▶ ppb	<input type="checkbox"/> ▶ min/hr > 20%	<input type="checkbox"/> ▶ inches H ₂ O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input type="checkbox"/> ▶ mmHg
			<input type="checkbox"/> ▶ Other (describe)

Event Description:

This breakdown report is being submitted on 8/8/2022 at ~ 11:00 AM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 8/8/2022.

District Use Only

Received by

Date

Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to rca@baaqmd.gov
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: You may have additional report requirements under Title V.

Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
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Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

August 10, 2022 ([via email: compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105
Attn: RCA 30-Day Report

Re: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294
Request for Breakdown Relief for RCA Numbers 08K82
30-Day Written Follow-up Report (Per Regulation 1, Section 432)

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 30-Day follow-up report to the Bay Area Air Quality Management District (BAAQMD) for the PG&E power outage on August 8, 2022.

A breakdown report (Per Regulation 1, Section 431) was submitted by GRDF at ~1:25 PM on August 8, 2022, because the landfill gas collection and control system (GCCS) was temporarily shut down due a PG&E power outage caused due to a Wire Down Outage. The flare was back online at ~11:58 AM on 8/8/2022 (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief to the BAAQMD for the August 8, 2022, PG&E power outage and was assigned RCA number 08K82 (see Attachment B).

The unplanned power outage shutdown event noted in RCA form on August 8, 2022, did not result in emissions and does not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit GRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control.

GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

GRDF placed purchase order for a permanent generator in October 2021, and the unit was delivered in July 2022 (delayed due to the COVID-19 emergency and related supply chain disruptions). GRDF submitted the backup generator permit application to the BAAQMD on February 10, 2022 (AN 31599 was assigned). GRDF will also be working on an electrical permit for the Automatic Transfer Switch (ATS) as required by the City of San Jose.

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

Sincerely,

Guadalupe Recycling & Disposal Facility

A handwritten signature in cursive script that reads "Paul Enrique Perez".

Enrique Perez
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data for 8.8.2022

Attachment B- Copy of GRDF RCA Form -Number 08K82

Attachment A
GRDF flare data for 8.8.2022

Guadalupe Recycling and Disposal Facility-A3294

Flare Data

		FLARE TEMP		LFG FLOW	
		Deg F		SCFM	
		MIN	MAX	MIN	MAX
2022/08/08	10:00:00	1540	1551	1523	1558
2022/08/08	10:02:00	1544	1558	1522	1550
2022/08/08	10:04:00	1558	1562	1515	1550
2022/08/08	10:06:00	1545	1564	1530	1555
2022/08/08	10:08:00	1545	1569	1527	1551
2022/08/08	10:10:00	1569	1574	1527	1550
2022/08/08	10:12:00	1566	1577	1523	1553
2022/08/08	10:14:00	1556	1566	1527	1553
2022/08/08	10:16:00	1548	1561	1527	1556
2022/08/08	10:18:00	1559	1566	1527	1555
2022/08/08	10:20:00	1555	1566	1527	1555
2022/08/08	10:22:00	1552	1556	1530	1555
2022/08/08	10:24:00	1553	1561	1526	1552
2022/08/08	10:26:00	1545	1553	1524	1556
2022/08/08	10:28:00	1545	1555	1532	1553
2022/08/08	10:30:00	1553	1557	1529	1555
2022/08/08	10:32:00	1553	1572	1527	1557
2022/08/08	10:34:00	1572	1573	1532	1551
2022/08/08	10:36:00	1557	1572	1527	1552
2022/08/08	10:38:00	1556	1567	1530	1558
2022/08/08	10:40:00	1535	1566	1535	1555
2022/08/08	10:42:00	1533	1543	1533	1556
2022/08/08	10:44:00	1543	1550	1530	1561
2022/08/08	10:46:00	1550	1574	1521	1553
2022/08/08	10:48:00	1574	1576	1532	1559
2022/08/08	10:50:00	1550	1576	1530	1556
2022/08/08	10:52:00	1535	1550	1529	1558
2022/08/08	10:54:00	1535	1555	1523	1547
2022/08/08	10:56:00	1552	1559	1523	1551
2022/08/08	10:58:00	1552	1560	1523	1547
2022/08/08	11:00:00	1560	1565	1515	1550
2022/08/08	11:02:00	1564	1567	1519	1548
2022/08/08	11:04:00	1562	1571	1526	1548
2022/08/08	11:06:00				
2022/08/08	11:08:00				
2022/08/08	11:10:00				
2022/08/08	11:12:00				
2022/08/08	11:14:00				
2022/08/08	11:16:00				
2022/08/08	11:18:00				
2022/08/08	11:20:00				
2022/08/08	11:22:00				
2022/08/08	11:24:00				
2022/08/08	11:26:00				
2022/08/08	11:28:00				
2022/08/08	11:30:00				
2022/08/08	11:32:00				
2022/08/08	11:34:00				
2022/08/08	11:36:00				
2022/08/08	11:38:00				
2022/08/08	11:40:00				
2022/08/08	11:42:00				
2022/08/08	11:44:00				
2022/08/08	11:46:00				
2022/08/08	11:48:00				
2022/08/08	11:50:00				
2022/08/08	11:52:00				
2022/08/08	11:54:00	125	135	1	1
2022/08/08	11:56:00	130	133	1	2
2022/08/08	11:58:00	129	199	2	1478
2022/08/08	12:00:00	199	1651	1478	1859
2022/08/08	12:02:00	1512	1663	1625	1750
2022/08/08	12:04:00	1503	1688	1627	1656
2022/08/08	12:06:00	1519	1640	1612	1647

2022/08/08	12:08:00	1491	1625	1604	1644
2022/08/08	12:10:00	1529	1655	1612	1650
2022/08/08	12:12:00	1521	1584	1606	1636
2022/08/08	12:14:00	1533	1569	1607	1637
2022/08/08	12:16:00	1569	1578	1612	1633
2022/08/08	12:18:00	1568	1572	1609	1631
2022/08/08	12:20:00	1546	1568	1610	1631
2022/08/08	12:22:00	1536	1546	1606	1631
2022/08/08	12:24:00	1522	1551	1607	1640
2022/08/08	12:26:00	1551	1595	1605	1630
2022/08/08	12:28:00	1568	1595	1607	1637
2022/08/08	12:30:00	1542	1569	1601	1633
2022/08/08	12:32:00	1535	1542	1606	1637
2022/08/08	12:34:00	1533	1570	1604	1632
2022/08/08	12:36:00	1569	1581	1606	1628
2022/08/08	12:38:00	1572	1581	1597	1628
2022/08/08	12:40:00	1555	1572	1607	1632
2022/08/08	12:42:00	1555	1558	1604	1633
2022/08/08	12:44:00	1553	1560	1602	1628
2022/08/08	12:46:00	1559	1562	1600	1628
2022/08/08	12:48:00	1554	1560	1605	1627
2022/08/08	12:50:00	1548	1559	1600	1625
2022/08/08	12:52:00	1557	1564	1604	1629
2022/08/08	12:54:00	1559	1564	1603	1629
2022/08/08	12:56:00	1559	1565	1598	1630
2022/08/08	12:58:00	1554	1565	1604	1630
2022/08/08	13:00:00	1550	1560	1597	1625
2022/08/08	13:02:00	1552	1560	1601	1627
2022/08/08	13:04:00	1547	1555	1603	1628
2022/08/08	13:06:00	1554	1559	1598	1628
2022/08/08	13:08:00	1555	1564	1604	1628
2022/08/08	13:10:00	1557	1565	1598	1625
2022/08/08	13:12:00	1559	1562	1589	1630
2022/08/08	13:14:00	1560	1564	1601	1623
2022/08/08	13:16:00	1559	1564	1601	1627
2022/08/08	13:18:00	1559	1565	1605	1625
2022/08/08	13:20:00	1545	1559	1599	1628
2022/08/08	13:22:00	1549	1559	1595	1628
2022/08/08	13:24:00	1557	1564	1596	1628
2022/08/08	13:26:00	1554	1563	1604	1634
2022/08/08	13:28:00	1550	1554	1592	1627
2022/08/08	13:30:00	1554	1571	1601	1630

Attachment B
Copy of GRDF RCA Form-Numbers 08K82

From: [Phadnis, Rajan](#)
To: [RCA Notification](#)
Cc: [Azevedo, Becky](#); [Perez, Enrique](#); [Colline, Christian](#); [Erin Phillips](#); [Phadnis, Rajan](#)
Subject: RE: GRDF A3294-RCA for PG&E power outage 8.8.2022-Updated RCA form
Date: Tuesday, August 9, 2022 10:16:45 AM
Attachments: [GRDC RCA Notification Form Updated-RCA 08K82 8-9-2022.pdf](#)

Thank you.

Please see attached with updated RCA form with details of Clear Time (RCA Number 08K82).

Thanks,
Rajan

From: RCA Notification <rca@baaqmd.gov>
Sent: Monday, August 8, 2022 2:44 PM
To: Phadnis, Rajan <rphadnis@wm.com>
Cc: Azevedo, Becky <Razevedo@wm.com>; Perez, Enrique <pperez3@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 8.8.2022

Good afternoon I am confirming receipt, and letting you know the RCA for your notification is 08K82

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Monday, August 8, 2022 1:24 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Azevedo, Becky <Razevedo@wm.com>; Perez, Enrique <pperez3@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage 8.8.2022

CAUTION: This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned PG&E power outage on 8/8/2022, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility

Recycling is a good thing. Please recycle any printed emails.



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable
Compliance
Activity (RCA)

[See back of form for instructions](#) →

1. **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 11:00 AM on 8/8/2022	Clear Time	~11:58 AM on 8/8/22
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO _x <input type="checkbox"/> ▶ SO ₂ <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO ₂ <input type="checkbox"/> ▶ H ₂ S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH ₃		
	<input type="checkbox"/> ▶ O ₂ <input type="checkbox"/> ▶ H ₂ O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power outage		
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H ₂ O <input type="checkbox"/> ▶ mmHg			
<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input type="checkbox"/> ▶ Other (describe)			

Event Description:

UPDATED Form on 8/9/22 (Assigned RCA Number 08K82) with Clear Time.

This breakdown report is being submitted on 8/8/2022 at ~ 11:00 AM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 8/8/2022.

District Use Only

Received by

Date

Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to rca@baaqmd.gov
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish
Disposal Co., Inc.**
15999 Guadalupe Mines Road
P.O. Box 20957
San Jose, CA 95160

August 8, 2022 (via email rca@baaqmd.gov)

Compliance & Enforcement Division
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on August 8, 2022, at ~ 11:00 AM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on August 8, 2022, at ~ 1:15 PM about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence, or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

The shutdown event was unforeseeable & unpreventable at GRDF.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294 Dated 8.8.2022



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable
Compliance
Activity (RCA)

[See back of form for instructions](#) →

1. **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 11:00 AM on 8/8/2022	Clear Time	
Monitor/device type(s)	<input type="checkbox"/> CEM <input type="checkbox"/> GLM <input type="checkbox"/> Parametric <input type="checkbox"/> PRD <input type="checkbox"/> Non-monitor		
Monitor description(s)			
Parameter(s) exceeded or not functioning due to inoperation			
<input type="checkbox"/> NO _x	<input type="checkbox"/> SO ₂	<input type="checkbox"/> CO	<input type="checkbox"/> CO ₂
<input type="checkbox"/> O ₂	<input type="checkbox"/> H ₂ O	<input type="checkbox"/> Opacity	<input type="checkbox"/> Lead
<input type="checkbox"/> Hydrocarbon Breakthrough (VOC)	<input type="checkbox"/> Temperature	<input type="checkbox"/> Wind Speed	<input type="checkbox"/> H ₂ S
<input type="checkbox"/> Wind Direction	<input type="checkbox"/> Steam	<input checked="" type="checkbox"/> Other (describe) Power outage	<input type="checkbox"/> TRS
Unit(s) of Measurement			
<input type="checkbox"/> ppm	<input type="checkbox"/> ppb	<input type="checkbox"/> min/hr > 20%	<input type="checkbox"/> inches H ₂ O
<input type="checkbox"/> psig	<input type="checkbox"/> pH	<input type="checkbox"/> °Fahrenheit	<input type="checkbox"/> mmHg
		<input type="checkbox"/> Other (describe)	

Event Description:

This breakdown report is being submitted on 8/8/2022 at ~ 11:00 AM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 8/8/2022.

District Use Only

Received by

Date

Time

General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to rca@baaqmd.gov
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: You may have additional report requirements under Title V.

Detailed Instructions

Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



Guadalupe Rubbish Disposal Company, Inc.
15999 Guadalupe Mines Road
PO Box 20957
San Jose, California 95160
T: 408.268.1670

June 1, 2022

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: Guadalupe Rubbish Disposal Co., Inc., San Jose, California
Facility Number A3294
Request for Limited Exemption (for construction activities) from Regulation 8, Rule 34
(Solid Waste Disposal Sites), Section 303 (Landfill Surface Requirements)

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 cell construction activities to be conducted from June 27, 2022, through November 30, 2022, at the Guadalupe Recycling and Disposal Facility (GRDF) 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 excavation work as part of the new cell construction project to maintain compliance with Regulation 8, Rule 34, and is to be performed during the period of June 27, 2022, through November 30, 2022.

The construction work will include waste and soil excavation and backfilling work for the proposed cell (Module 3 Phase 4). 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 27, 2022. We anticipate construction activities to conclude by November 30, 2022.

Unless notified otherwise, GRDF 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,

Guadalupe Recycling and Disposal Facility

A handwritten signature in cursive script, reading "Michael L. Winter", enclosed in a thin black rectangular border.

Michael L. Winter

District Engineer

CC: Tamiko Endow, BAAQMD
Enrique Perez, GRDF
Bill Louis, WM

BAAQMD RULE 8-34-118 CONSTRUCTION PLAN
Guadalupe Recycling and Disposal Facility
EXCAVATION AND BACKFILLING FOR CELL CONSTRUCTION WORK

June 27, 2022, through November 30, 2022

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 in waste and backfilling for the cell project.

AFFECTED LANDFILL AREAS

The construction activities will occur in areas as shown on the attached figure.

AFFECTED LFG COMPONENTS

GRDF will conduct landfill GCCS construction activities in compliance with the Rule 8-34-116 and 8-34-117, if applicable.

Pursuant to Rule 8-34-117, GRDF will take the GCCS wells offline, as necessary. GRDF 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. Excavation and backfilling for this project is independent of the ongoing operations of the GCCS.

REASONS FOR ACTIONS

The proposed construction work is intended to:

- Excavation and backfilling of waste and soil

CONSTRUCTION SCHEDULE

The anticipated construction period will be between June 27, 2022, through November 30, 2022, and is summarized in the table below:

Table 1 - Preliminary Construction Schedule

Task	Project Duration
Mobilize crew, equipment, and materials to site	Week 1
Excavation and backfilling	Up to 21 weeks
Clean-up and demobilize crew and materials	Week 1

AIR QUALITY MITIGATION MEASURES

Emission of raw LFG will be minimized during construction. We anticipate minimal interruption of the overall site LFG extraction and control operations during the work. Excavation in waste is independent of ongoing operations of the existing GCCS. Air quality mitigation will be provided during the existing project. 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 excavation and backfilling work.

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

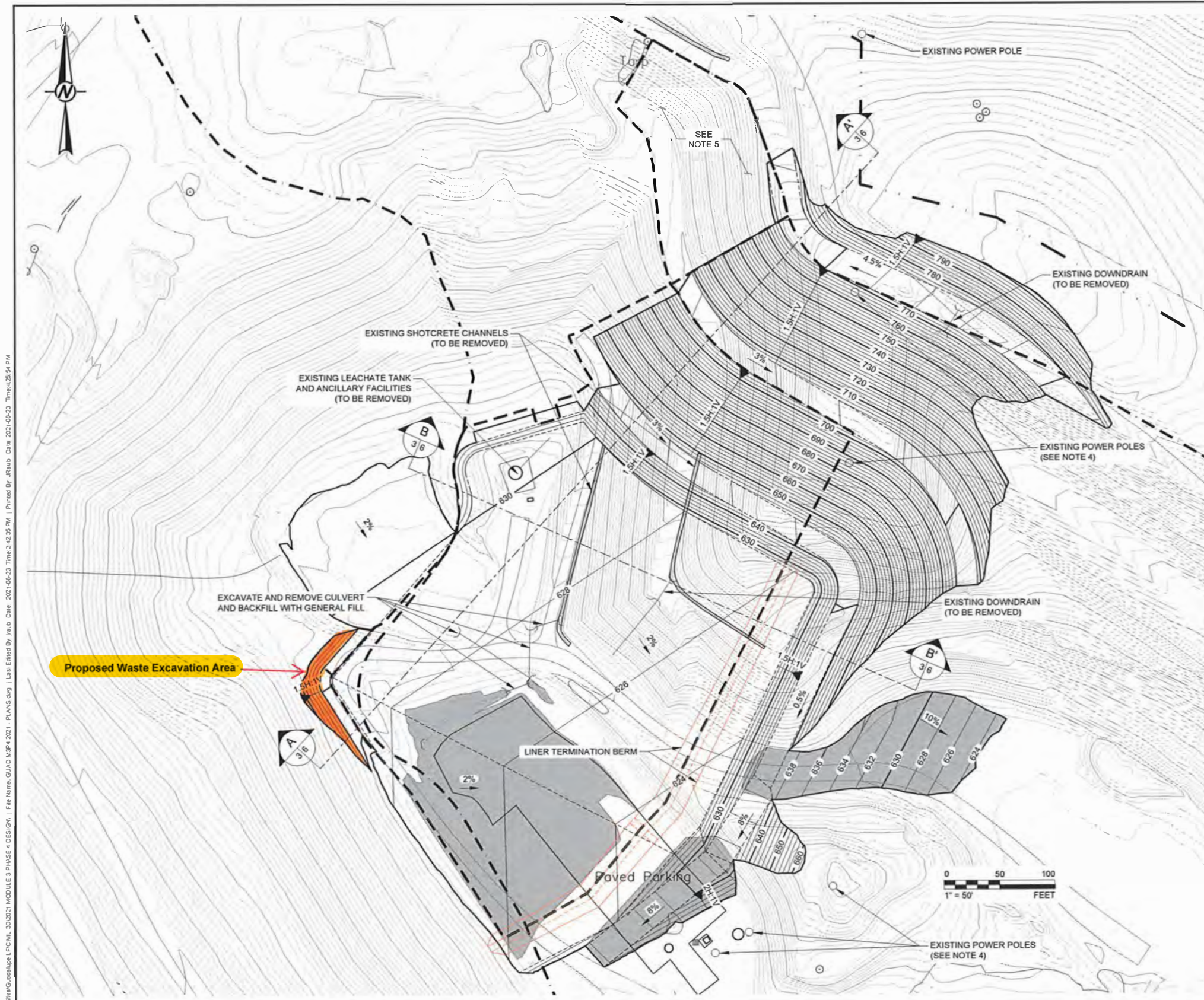
RECORDKEEPING

The following records will be retained during the project:

- Construction start and end dates, and any projected shut down times for individual gas collection system components.
- GCCS downtime and individual well shutdown times will be documented in accordance with the GRDF's Startup, Shutdown, and Malfunction (SSM) Plan.
- Mitigation measures taken to minimize methane emissions and other potential air quality impacts will be documented.

Attachments: Figures 1 – Proposed waste and soil excavation areas

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LEGEND

- — — — — PROPERTY BOUNDARY
- - - - - APPROXIMATE LIMIT OF REFUSE
- - - - - APPROXIMATE PHASE LIMIT
- APPROXIMATE LIMITS OF EARTHFILL
- 2% GRADE INDICATOR
- 1.5H:1V SLOPE INDICATOR
- SUBGRADE CONTROL POINT

- NOTE(S)**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK ASSOCIATES. DATE OF PHOTOGRAPHY: MARCH 26, 2021. DATUM: HORIZONTAL - CA STATE PLANE SYSTEM ZONE 3 NAD 83, VERTICAL - NAVD 88.
 2. CONTRACTOR SHALL NOT ACCESS OR WORK IN THE EXCLUSION ZONE AROUND EXISTING POWER POLES AND TRANSMISSION LINE.
 3. CONTRACTOR TO VERIFY EXISTING LINER LIMIT LOCATIONS.
 4. POWER POLES WITHIN THE EXCAVATION AREA WILL BE RELOCATED BY OTHERS.
 5. CONTRACTOR SHALL GRADE EXISTING SLOPE TO MEET LINER SUBGRADE REQUIREMENTS PER TECHNICAL SPECIFICATIONS (SEE DETAIL 2 / SHEET 7).

SEAL



CLIENT
**WASTE MANAGEMENT OF ALAMEDA COUNTY
 GUADALUPE RUBBISH WASTE MANAGEMENT OF CALIFORNIA
 SANTA CLARA COUNTY, CALIFORNIA**

CONSULTANT

SACRAMENTO OFFICE
 1000 ENTERPRISE WAY, SUITE 190
 ROSEVILLE, CA 95678
 USA
 (916) 786-2424
 www.golder.com

PROJECT
**GUADALUPE RECYCLING AND DISPOSAL FACILITY
 2021 MODULE 3, PHASE IV BASE LINER DESIGN**

TITLE
**SUBGRADE GRADING PLAN SHOWING WASTE
 EXCAVATION AREA**

PROJECT NO. 21464008 REV. 0 3 of 10 DRAWING 3

0	2021-08-10	ISSUED FOR RWQCB REVIEW	JDR	JDR	BCG	JGD
REV	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS I D

APPENDIX D
WELL SSM LOG

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: Tino Robles/Carlos Cruz/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA
SSMP REPORT - April 1, 2022 Through September 30, 2022

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:134 Startup Event	2/14/22 10:50	2/14/22 10:52	0.03	1,512 hours (63 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/14/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)			
X Shutdown Event											Automatic (Go to Section 11)	X	No (Stop)	No (Stop)	
Well ID Number:134 Startup Event	4/18/22 10:45	4/18/22 10:47	0.03				356 hours (15 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/18/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:228 Startup Event	4/27/22 12:30	4/27/22 12:32	0.03	531 hours (22 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				4/27/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:228 Startup Event	5/12/22 8:30	5/12/22 8:32	0.03				510 hours (21 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	5/12/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:233 Startup Event	5/25/22 11:24	5/25/22 11:26	0.03	510 hours (21 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				5/25/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:233 Startup Event	6/16/22 14:30	6/16/22 14:32	0.03				510 hours (21 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/16/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:230 Startup Event	6/28/22 8:46	6/28/22 8:48	0.03	510 hours (21 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				6/28/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:230 Startup Event	7/19/22 14:35	7/19/22 14:37	0.03				4,364 hours (182 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/19/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:176 Startup Event	2/22/22 15:00	2/22/22 15:02	0.03	967 hours (40 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				2/22/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:176 Startup Event	8/23/22 10:45	8/23/22 10:47	0.03				967 hours (40 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/23/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:222 Startup Event	6/22/22 8:00	6/22/22 8:02	0.03	1,172 hours (49 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				6/22/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:222 Startup Event	8/1/22 14:35	8/1/22 14:37	0.03				712 hours (30 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/1/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:223 Startup Event	7/13/22 15:00	7/13/22 15:02	0.03	712 hours (30 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				7/13/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:223 Startup Event	8/31/22 10:30	8/31/22 10:32	0.03				566 hours (24 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/31/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:225 Startup Event	9/20/22 10:30	9/20/22 10:32	0.03	1,453 hours (61 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				9/20/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:225 Startup Event	9/23/22 9:00	9/23/22 9:02	0.03				712 hours (30 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/23/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:224 Startup Event	8/1/22 10:30	8/1/22 10:32	0.03	712 hours (30 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				8/1/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:224 Startup Event	9/30/22 23:59	10/1/22 0:01	0.03				712 hours (30 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/30/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:223 Startup Event	9/1/22 8:20	9/1/22 8:22	0.03	566 hours (24 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				9/1/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:223 Startup Event	9/30/22 23:59	10/1/22 0:01	0.03				566 hours (24 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/30/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:242 Startup Event	9/7/22 9:30	9/7/22 9:32	0.03	566 hours (24 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities				9/7/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X
Well ID Number:242 Startup Event	9/30/22 23:59	10/1/22 0:01	0.03				566 hours (24 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/30/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event														Automatic (Go to Section 11)	X

N/A = Not Applicable
Offline Wells

(a) STANDARD OPERATING PROCEDURES

Shutdown

- | Procedure No. | Procedure |
|---------------|---|
| 1. | Ensure that there is 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) <ul style="list-style-type: none"> a. Press Emergency Stop if necessary b. Close On/Off switch(es) or Push On/Off button(s) c. 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 is no unsafe conditions present |
| 2. | Ensure that the system is ready to start by one of the following: <ul style="list-style-type: none"> a. Valves are in correct position b. Levels, pressures, and temperatures are within normal starting range c. Alarms are cleared d. Power is on and available to control panel and ready to energized equipment. e. 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 shutdown 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	<ul style="list-style-type: none"> -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 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -Break/crack in header or lateral piping -Leaks at wellheads, valves, flanges, Test ports, seals, couplings, etc. -Collection piping blockages -Problems due to settlement (e.g. pipe separation, deformation, development of low points) 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> - 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 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -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 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -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 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -Problems with orifice plate, pitot tube, or other in-line flow measuring device -Problems with device controls and/or wiring -Problems with chart recorder 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -Problems with thermocouple -Problems with device controls and/or wiring -Problems with chart recorder 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -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 arrestor -Alarmed malfunction conditions not covered above -Unalarmed conditions discovered during inspection not covered above 	<ol style="list-style-type: none"> 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".

APPENDIX E

FLARE SSM LOG

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: A-9 Flare

Completed By: Tino Robles/Carlos Cruz/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - April 1, 2022 Through September 30, 2022												
Identify Flare & 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
Component: A-9 Flare												
Startup Event						113: Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	4/01/22 00:00	4/01/22 00:02	0.03	4,392.00	Flare shutdown during reporting period. Landfill gas diverted to flare A-17.	116: Well Raising	4/1/2022	Automatic (Go to Section 10)				
Malfunction Event							117: Gas Collection				No (Stop)	No (Stop)
Component: A-9 Flare												
Startup Event	9/30/22 23:59	10/01/22 00:05	0.10			113: Inspection and Maintenance	10/1/2022	Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)	
Shutdown Event						116: Well Raising						
Malfunction Event						117: Gas Collection		Automatic (Go to Section 10)	No (Stop)	No (Stop)		
						118: Construction Activities						
TOTAL DOWNTIME April 1, 2022 Through September 30, 2022			4392.0									
TOTAL RUNTIME April 1, 2022 Through September 30, 2022			0.0									
TOTAL HOURS April 1, 2022 Through September 30, 2022(HOURS):			4392.0									

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: A-17 Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)

Completed By: Tino Robles/Carlos Cruz/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - April 1, 2022 Through September 30, 2022												
Identify Flare & 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
Component: A-17 Flare Startup Event X Shutdown Event Maifunction Event	4/20/22 16:56	4/20/22 17:00	0.07	0.60	Flare A-17 was shutdown during fire damage to the air line. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	4/20/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	4/20/22 17:32	4/20/22 17:36	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	4/20/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	4/23/22 12:56	4/23/22 12:58	0.03	3.23	Flare A-17 shutdown during compressor trip event. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	4/23/2022	X Automatic (Go to Section 11)	Procedure No. 1 to 3	No (Stop)	X No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Maifunction Event	4/23/22 16:10	4/23/22 16:16	0.10			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	4/23/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	4/29/22 10:52	4/29/22 10:56	0.07	1.03	Flare A-17 was shutdown to clear condensate slug in line. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	4/29/2022	X Automatic (Go to Section 10)	Procedure 1 to 3	X No (Stop)	No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Maifunction Event	4/29/22 11:54	4/29/22 11:58	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	4/29/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	5/31/22 10:26	5/31/22 10:30	0.07	0.77	Flare A-17 was shut down to replace air filter on compressor. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	5/31/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	5/31/22 11:12	5/31/22 11:16	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	5/31/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	6/05/22 04:28	6/05/22 04:32	0.07	0.97	Flare A-17 shut down during PG&E unplanned power outage. Flare restarted and was inspected on the next day. RCA was filed and was assigned RCA Number 08J18.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/5/2022	X Automatic (Go to Section 11)	Procedure No. 1 to 3	No (Stop)	X No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Maifunction Event	6/05/22 05:26	6/05/22 05:30	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/5/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	6/06/22 10:00	6/06/22 10:04	0.07	1.10	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/6/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	6/06/22 11:06	6/06/22 11:10	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/6/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	6/13/22 07:54	6/13/22 07:58	0.07	0.07	Flare A-17 shut down due to low temperature alarm. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/13/2022	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Maifunction Event	6/13/22 07:58	6/13/22 08:02	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/13/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	6/13/22 08:08	6/13/22 08:12	0.07	0.37	Flare A-17 shutdown during startup sequence. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/13/2022	X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Maifunction Event	6/13/22 08:30	6/13/22 08:34	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/13/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	6/16/22 11:00	6/16/22 11:04	0.07	3.47	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/16/2022	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-17 Flare X Startup Event Shutdown Event Maifunction Event	6/16/22 14:28	6/16/22 14:32	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	6/16/2022	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-17 Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)

Completed By: Tino Robles/Carlos Cruz/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - April 1, 2022 Through September 30, 2022												
Identify Flare & 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
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	6/22/22 07:10	6/22/22 07:14	0.07	3.20	Flare A-17 shutdown due to low temperature alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	6/22/2022	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	6/22/22 10:22	6/22/22 10:26	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	6/22/2022	X Automatic (Go to Section 11)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	6/27/22 10:12	6/27/22 10:16	0.07	0.23	Flare A-17 was shut down to clean flowmeter probe. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	6/27/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	6/27/22 10:26	6/27/22 10:30	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	6/27/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/11/22 07:20	7/11/22 07:24	0.07	1.30	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/11/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/11/22 08:38	7/11/22 08:42	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	7/11/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	7/11/22 18:36	7/11/22 18:40	0.07	1.43	Flare A-17 shutdown during PG&E unplanned power outage. Flare restarted and was inspected on the next day. RCA was filed and was assigned RCA Number 08K15.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/11/2022	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	7/11/22 20:02	7/11/22 20:06	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	7/11/2022	X Automatic (Go to Section 11)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/15/22 13:28	7/15/22 13:32	0.07	0.20	Flare A-17 was shut down by electrician during inspection and maintenance. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/15/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/15/22 13:40	7/15/22 13:44	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	7/15/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/26/22 07:56	7/26/22 08:00	0.07	4.20	Flare A-17 was shut down during repair on lateral line. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/26/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/26/22 12:08	7/26/22 12:12	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	7/26/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/28/22 13:16	7/28/22 13:20	0.07	0.43	Flare A-17 was shut down during maintenance on flowmeter. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/28/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/28/22 13:42	7/28/22 13:46	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	7/28/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/28/22 13:52	7/28/22 13:56	0.07	0.27	Flare A-17 was shut down during maintenance on flowmeter. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/28/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Shutdown Event	7/28/22 14:08	7/28/22 14:12	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	7/28/2022	X Automatic (Go to Section 10)		No (Stop)	No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	8/08/22 11:06	8/08/22 11:10	0.07	0.87	Flare A-17 shutdown during PG&E unplanned power outage. RCA was filed and RCA Number 08K62 was assigned. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	8/8/2022	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	8/08/22 11:58	8/08/22 12:02	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	8/8/2022	X Automatic (Go to Section 11)		No (Stop)	No (Stop)	

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: A-17 Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)

Completed By: Tino Robles/Carlos Cruz/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - April 1, 2022 Through September 30, 2022												
Identify Flare & 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
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/11/22 10:58	8/11/22 11:02	0.07	1.67	Flare A-17 was shut down during lateral repair work. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/11/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/11/22 12:38	8/11/22 12:42	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/11/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/25/22 10:36	8/25/22 10:40	0.07	5.37	Flare A-17 was shut down during lateral repair work. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/25/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/25/22 15:58	8/25/22 16:02	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/25/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/26/22 15:36	8/26/22 15:40	0.07	0.47	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/26/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/26/22 16:04	8/26/22 16:08	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/26/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/30/22 08:50	8/30/22 08:54	0.07	1.90	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/30/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/30/22 10:44	8/30/22 10:48	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/30/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/31/22 07:06	8/31/22 07:10	0.07	1.33	Flare A-17 was shut down during inspection and maintenance. Flare was inspected and restarted.	X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/31/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/31/22 08:26	8/31/22 08:30	0.07			X 113. Inspection and Maintenance 116. Well Raising 117. Gas Collection 118. Construction Activities	8/31/2022	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
TOTAL DOWNTIME April 1, 2022 Through September 30, 2022 (HOURS):			34.47									
TOTAL RUNTIME April 1, 2022 Through September 30, 2022 (HOURS):			4333.5									
TOTAL HOURS April 1, 2022 Through September 30, 2022 (HOURS):			4368.0									

(a) STANDARD OPERATING PROCEDURES

Shutdown

- | Procedure No. | Procedure |
|---------------|---|
| 1. | Ensure that there is 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) <ol style="list-style-type: none"> a. Press Emergency Stop if necessary b. Close On/Off switch(es) or Push On/Off button(s) c. 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 is no unsafe conditions present |
| 2. | Ensure that the system is ready to start by one of the following: <ol style="list-style-type: none"> a. Valves are in correct position b. Levels, pressures, and temperatures are within normal starting range c. Alarms are cleared d. Power is on and available to control panel and ready to energized equipment. e. 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 shutdown 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	<ul style="list-style-type: none"> -Flame arrester 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 	<ol style="list-style-type: none"> 1. Repair breakages in extraction piping 2. Clean flame arrester 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	<ul style="list-style-type: none"> -Break/crack in header or lateral piping -Leaks at wellheads, valves, flanges, Test ports, seals, couplings, etc. -Collection piping blockages -Problems due to settlement (e.g. pipe separation, deformation, development of low points) 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> - 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 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -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 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -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 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -Problems with orifice plate, pitot tube, or other in-line flow measuring device -Problems with device controls and/or wiring -Problems with chart recorder 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -Problems with thermocouple -Problems with device controls and/or wiring -Problems with chart recorder 	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> -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 	<ol style="list-style-type: none"> 45. Site-specific diagnosis procedures 46. Site-specific responses actions based on 47. Open manual louvers 48. Clean pitot orifice 49. Clean/drain flame arrester 50. Refill propane supply 51. Check/repair pilot sparking system

(b) For each permit limit exceedance complete an "SSM Plan Departure Form".

APPENDIX F

TEMPERATURE DEVIATION / INOPERATIVE MONITOR / MISSING DATA REPORT

Guadalupe Recycling & Disposal Facility, San Jose, CA
TEMPERATURE DEVIATION/ INOPERATIVE MONITOR/MISSING DATA REPORT - From April 1, 2022 Through September 30, 2022

Flare A-9
REPORT PREPARED BY: Rajan Phadnis **DATE:** October 1, 2022
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 April 2022	
					No deviations, inoperative monitors, or missing data occurred in May 2022	
					No deviations, inoperative monitors, or missing data occurred in June 2022	
					No deviations, inoperative monitors, or missing data occurred in July 2022	
					No deviations, inoperative monitors, or missing data occurred in August 2022	
					No deviations, inoperative monitors, or missing data occurred in September 2022	

NOTES: °F= degrees Fahrenheit
scfm= standard cubic feet per minute

COMMENTS: The A-9 Flare combustion zone 3-hour average temperature did not drop below the 1,450 degrees Fahrenheit (°F) limit, as required by Title V Permit Condition Number 6188 Part 8, during the reporting period while the flare was in operation.
The A-9 Flare combustion zone 3-hour average temperature did not drop below the 1,593°F limit established in the April 29, 2020 Annual Source Test and , pursuant to Title V Permit A3294 Condition 6188 Part 8, during the reporting period while the flare was in operation.

Guadalupe Recycling & Disposal Facility, San Jose, CA

TEMPERATURE DEVIATION/ INOPERATIVE MONITOR/MISSING DATA REPORT - From April 1, 2022 Through September 30, 2022

Flare A-17 (previously designated as A-14)

REPORT PREPARED BY: Rajan Phadnis

DATE: October 1, 2022

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 April 2022	
					No deviations, inoperative monitors, or missing data occurred in May 2022	
					No deviations, inoperative monitors, or missing data occurred in June 2022	
					No deviations, inoperative monitors, or missing data occurred in July 2022	
					No deviations, inoperative monitors, or missing data occurred in August 2022	
					No deviations, inoperative monitors, or missing data occurred in September 2022	

NOTES: °F= degrees Fahrenheit
scfm= standard cubic feet per minute

COMMENTS: The A-17 Flare combustion zone 3-hour average temperature did not drop below the 1,449°F limit established in the February 16, 2022 Annual Source Test, pursuant to as required by Authority to Construct. The A-17 Flare combustion zone 3-hour average temperature did not drop below the 1,449°F limit established in the February 18, 2021 Annual Source Test

APPENDIX G

COVER INTEGRITY MONITORING REPORTS

Monthly Cover Monitoring

LOCATION: Guadalupe Rubbish Disposal Company, Inc.

INSPECTION DATE: April 26, 2022

TECHNICIAN: Tino Robles

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

REPAIR AREAS:

Location Description (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: Guadalupe Rubbish Disposal Company, Inc.

INSPECTION DATE: May 20 and 31, 2022

TECHNICIAN: Tino Robles

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

REPAIR AREAS:

Location Description (cell and near-by wells)	Date of Repair	Description of Repair (add soil, water)
Near front face of Landfill	5.31.2022	Added soil and compacted

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

Monthly Cover Monitoring

LOCATION: Guadalupe Rubbish Disposal Company, Inc.

INSPECTION DATE: June 27, 2022

TECHNICIAN: Carlos Cruz

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 (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: Guadalupe Rubbish Disposal Company, Inc.

INSPECTION DATE: July 27, 2022

TECHNICIAN: Carlos Cruz

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 (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: Guadalupe Rubbish Disposal Company, Inc.

INSPECTION DATE: August 29, 2022

TECHNICIAN: Carlos Cruz

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 (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: Guadalupe Rubbish Disposal Company, Inc.

INSPECTION DATE: •September 23, 2022

TECHNICIAN: Carlos Cruz

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 (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 H

SURFACE EMISSIONS AND COMPONENT LEAK MONITORING REPORTS



Guadalupe Rubbish Disposal Company, Inc.
15999 Guadalupe Mines Road
PO Box 20957
San Jose, California 95160
T: 408.268.1670

July 11, 2022

Ms. Becky Azevedo
Guadalupe Rubbish Disposal Co., Inc
15999 Guadalupe Mines Road
San Jose, CA 95120

**Re: Second Quarter 2022 Surface Emissions and Component Leak Monitoring Report
for Guadalupe Recycling & Disposal Facility**

Dear Ms. Azevedo:

This monitoring report for “**Guadalupe Rubbish Disposal Co., Inc. (GRDC)**” contains the results of the Second Quarter 2022 Integrated and Instantaneous Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by Roberts Environmental Services, LLC (RES). Re-monitoring of surface emissions and component leak monitoring was conducted by RES and/or Waste Management (WM) personnel.

APPLICABLE REQUIREMENTS

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

Surface Emission Monitoring (SEM)

- New Source Performance Standard (NSPS), Title 40 of the Code of Federal Regulations (CFR) §60.755 (c) and (d), 40 CFR 60, Appendix A Method 21, promulgated by the United States Environmental Protection Agency (USEPA).
- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95460 to §95476, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).
- Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) and Section 607 (Landfill Surface Inspection Procedures).
- United States Environmental Protection Agency’s (USEPA) *Standards of Performance for Municipal Solid Waste Landfills*; 40 Code of Federal Regulations (CFR) Part 63, Subpart AAAA-National Emission Standards for Hazardous Air Pollutants (NESHAP).

Component Leak

- 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 AB32 LMR.

GRDC 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 GRDC disposal area has been divided into one-hundred-and-five (105), approximately 50,000 square foot monitoring grids. Of these grids, eleven (11) currently have no waste in place. 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 GRDC 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.

The monitoring probe was positioned 2 inches above the ground surface. While walking, the wand tip of the FID was held within 2 inches of the landfill surface while traversing the grid. Per the approved alternative request, the wand tip of the FID was held at 2 inches of vegetation in areas where the landfill surface is covered with low-lying vegetation such as grasses while traversing the grid.

Instantaneous Surface Emissions Monitoring

The Instantaneous and Integrated SEM was conducted using flame ionization detectors (FID), 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 FIDs were calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The 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 2 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

WM 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 2022 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the Second Quarter 2022.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on April 13, 2022, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

Initial Monitoring Event Exceedances of 500 ppm_v

There was one exceedance location of 500 ppm_v as methane detected on April 13, 2022. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (April 14, 2022).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on April 14, 2022. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on May 9, 2022. 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. 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 April 12, 2022, 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 monitoring on April 12, 2022.

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 April 13, 2022. No leaks greater than 500 ppm_v were identified during this monitoring period. 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 strip chart data is scanned and included in Attachment D.

Ms. Becky Azevedo

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Precipitation Requirements

Per the GRDC'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
- Surface Monitoring Weather Data
- SEM Map

Attachment B – Integrated Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- Surface Monitoring Weather Data
- SEM Map

Attachment C – Component Leak Monitoring Event Records

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- 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

2022 QUARTER: 2

PERFORMED BY: RES

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments
1	90	4/13/2022	1,500	Well 112

Notes: Please refer to field data sheets for details

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

2022 QUARTER: 2

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: WM-Tino Robles

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

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	
1	4/13/2022	1,500	4/14/2022	Becs tuned and added soil & compacted	4/14/2022	19		5/9/2022	4		

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

2022 QUARTER: 2

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: WM-Tino Robles

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			Comments
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	
90	4/13/2022	1,500	4/14/2022	19	-				185

GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEWIS WOOD DWIGHT ANDREWS
RICHLANDS NICOLE DENKO
CELVIN ORTIZ Cal. Gas Exp. Date: 6-9-23

Date: 4-13-22 Instrument Used: FVA1000 Grid Spacing: 25'

Temperature: 36 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LW	0550	0605	22	6	6	7	
2	RL	0550	0605	14	6	6	7	
3	DA	0550	0605	18	6	6	7	
4	CO	0550	0605	26	6	6	7	
5	NA	0550	0605	39	6	6	7	
6	LW	0605	0620	31	4	6	5	
7	RL	0605	0620	24	4	6	5	
8	DA	0605	0620	39	4	6	5	
9	CO	0605	0620	22	4	6	5	
10	NA	0605	0620	44	4	6	5	
11	LW	0620	0635	30	5	5	4	
12	RL	0620	0635	26	5	5	4	
13	DA	0620	0635	51	5	5	4	
15	CO	0620	0635	22	5	5	4	
16	NA	0620	0635	37	5	5	4	
19	LW	0635	0650	26	5	6	5	
20	RL	0635	0650	20	5	6	5	
21	DA	0635	0650	58	5	6	5	
24	CO	0635	0650	21	5	6	5	
25	NA	0635	0650	27	5	6	5	
26	LW	0650	0705	31	4	6	6	
29	RL	0650	0705	16	4	6	6	
30	DA	0650	0705	22	4	6	6	
31	CO	0650	0705	26	4	6	6	
35	NA	0650	0705	15	4	6	6	
36	LW	0705	0720	39	4	6	5	
37	RL	0705	0720	52	4	6	5	
41	DA	0705	0720	30	4	6	5	
42	CO	0705	0720	51	4	6	5	
43	NA	0705	0720	30	4	6	5	

Attach Calibration Sheet
 Attach site map showing grid ID

**GUADALUPE LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: LEIGH WAOE DWIGHT ANDERSON
RICK LEWIS NICK BENICO
CALVIN ORTIZ Cal. Gas Exp. Date: 6-9-23

Date: 4-13-22 Instrument Used: LVA 1000 Grid Spacing: 25'

Temperature: 42 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
47	LW	0720	0735	17	5	6	5	
48	RL	0720	0735	21	5	6	5	
49	DA	0720	0735	37	5	6	5	
50	CO	0720	0735	36	5	6	5	
54	NO	0720	0735	32	5	6	5	
55	LW	0735	0750	24	4	5	5	
59	RL	0735	0750	29	4	5	5	
60	DA	0735	0750	38	4	5	5	
61	CO	0735	0750	43	4	5	5	
64	NO	0735	0750	71	4	5	5	
65	LW	0750	0805	37	6	6	6	
66	RL	0750	0805	71	6	6	6	
67	DA	0750	0805	106	6	6	6	
69	CO	0750	0805	22	6	6	6	
70	NO	0750	0805	84	6	6	6	
71	LW	0805	0820	29	4	6	5	
72	RL	0805	0820	35	4	6	5	
73	DA	0805	0820	26	4	6	5	
74	CO	0805	0820	21	4	6	5	
75	NO	0805	0820	44	4	6	5	
76	LW	0820	0835	66	4	5	6	
77	RL	0820	0835	41	4	5	6	
78	DA	0820	0835	32	4	5	6	
79	CO	0820	0835	35	4	5	6	
80	NO	0820	0835	49	4	5	6	
81	LW	0835	0850	70	5	7	5	
82	RL	0835	0850	25	5	7	5	
83	DA	0835	0850	21	5	7	5	
84	CO	0835	0850	82	5	7	5	
86	NO	0835	0850	41	5	7	5	

Attach Calibration Sheet
 Attach site map showing grid ID

**GUADALUPE LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: LEIGHNADE DWIGHT ANDERSON
RICK LEADS NICK BENKS
CELVIN ORTIZ Cal. Gas Exp. Date: 6-9-23

Date: 4-13-22 Instrument Used: LVA1000 Grid Spacing: 25'

Temperature: 46 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
87	LW	0850	0905	14	5	6	5	
90	RL	0850	0905	1500	5	6	5	WE1112
91	DA	0850	0905	11	5	6	5	
92	CO	0850	0905	14	5	6	5	
95	NB	0850	0905	17	5	6	5	
99	LW	0905	0920	14	6	6	7	
101	RL	0905	0920	22	6	6	7	
103	DA	0905	0920	14	6	6	7	
104	CO	0905	0920	26	6	6	7	
105	NB	0905	0920	21	6	6	7	

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH 105 _____

 _____ Cal. Gas Exp. Date: _____

Date: 4-13-22 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								Active trash
88								↓
89								
93								
94								
96								
97								
98								
100								
102								
14								
17								↓
18								
22								
27								
32								
38								
44								
51								
56								
23								
28								↓
33								
34								
39								
40								
45								
46								
52								
53								

Attach Calibration Sheet
 Attach site map showing grid ID

**GUADALUPE LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: LEISHWADE _____

Cal. Gas Exp. Date: _____

Date: 4-13-22 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	
57								↓
58								
62								
63								
68								

Attach Calibration Sheet
Attach site map showing grid ID

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
1		Riser-1				1	4-13-22	22	
2		Riser-2				3		18	
3	39270	H-12L	Leachate Riser or Sump (LR)	37.2175051	-121.9013879	4		26	LCRS NORTH
4	46004	EW-179	LFG Collector - Standard	37.2172819	-121.8987819	6		31	
5	49173	LC-196	LFG Collector - Standard	37.217485	-121.8971917	7		24	
6		Riser-3				7		18	
7	51829	EW-198	LFG Collector - Standard	37.217173	-121.8988572	9		14	
8	51833	EW-202	LFG Collector - Standard	37.2171697	-121.8994333	9		22	
9	45884	EW-176	LFG Collector - Standard	37.2171275	-121.896709	10		36	
10	45883	EW-177	LFG Collector - Standard	37.217047	-121.8974175	10		29	
11	60097	LC-232	LFG Collector - Standard	37.2171237	-121.8970001	10		35	WAS 2019 PW6
12	60098	LC-233	LFG Collector - Standard	37.2172233	-121.8972595	10		44	WAS 2019 PW7
13	23223	EW-82	LFG Collector - Standard	37.216757	-121.9015677	11		30	
14	54149	EW-214	LFG Collector - Standard	37.2168516	-121.8997801	12		26	
15	54149	EW-214	LFG Collector - Standard	37.2168516	-121.8997801	12		18	
16	38188	EW-122	LFG Collector - Standard	37.2167213	-121.8989765	13		14	
17	45881	EW-178	LFG Collector - Standard	37.2170005	-121.8981799	13		27	
18	51830	EW-199	LFG Collector - Standard	37.216939	-121.8985607	13		51	
19	54142	EW-207	LFG Collector - Standard	37.2167973	-121.8984098	13		30	
20	54142	EW-207	LFG Collector - Standard	37.2167973	-121.8984098	13		26	
21	51831	EW-200	LFG Collector - Standard	37.2165278	-121.8982343	14		84	
22	39762	EW-161	LFG Collector - Standard	37.2163602	-121.899993	15		22	
23	39753	EW-152	LFG Collector - Standard	37.2170233	-121.897694	16		11	
24	49230	EW-180	LFG Collector - Standard	37.2164993	-121.899249	16		21	
25	54143	EW-208	LFG Collector - Standard	37.2166558	-121.8986408	16		35	
26	54144	EW-209	LFG Collector - Standard	37.2166911	-121.898995	16		37	
27	54143	EW-208	LFG Collector - Standard	37.2166558	-121.8986408	16		20	
28	54144	EW-209	LFG Collector - Standard	37.2166911	-121.898995	16		16	
29	49165	LC-188	LFG Collector - Standard	37.2165115	-121.8979523	16		17	
30	39748	EW-147	LFG Collector - Standard	37.2163282	-121.8974612	17		24	
31	54139	EW-204	LFG Collector - Standard	37.2164842	-121.8974352	17		12	
32	23222	EW-81	LFG Collector - Standard	37.2164003	-121.9016828	19		26	
33	39766	EW-146	LFG Collector - Standard	37.2161893	-121.8996248	20		18	
34	39763	EW-162	LFG Collector - Standard	37.2162872	-121.9004384	20		20	
35	39752	EW-151	LFG Collector - Standard	37.216596	-121.8976265	21		34	
36	45882	EW-181	LFG Collector - Standard	37.2163757	-121.8981417	21		21	
37	54146	EW-211	LFG Collector - Standard	37.2164085	-121.899347	21		58	
38	54146	EW-211	LFG Collector - Standard	37.2164085	-121.899347	21		30	
39	54148	EW-213	LFG Collector - Standard	37.2157313	-121.9000587	25		27	
40	54148	EW-213	LFG Collector - Standard	37.2157313	-121.9000587	25		19	
41	54140	EW-205	LFG Collector - Standard	37.2159232	-121.8985607	26		26	
42	49166	LC-189	LFG Collector - Standard	37.2159743	-121.8981168	26		31	
43	60101	LC-236	LFG Collector - Standard	37.2159606	-121.8993035	26		20	WAS 2019 PW1A

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
44	60102	LC-237	LFG Collector - Standard	37.2155189	-121.9004241	30	1-13-21	22	WAS 2019 PW2
45	51832	EW-201	LFG Collector - Standard	37.2158282	-121.8977395	31		17	
46	54151	EW-216	LFG Collector - Standard	37.2157522	-121.8988583	31		24	
47	54151	EW-216	LFG Collector - Standard	37.2157522	-121.8988583	31		15	
48	49167	LC-190	LFG Collector - Standard	37.2158131	-121.8986935	31		26	
49	60099	LC-234	LFG Collector - Standard	37.2158817	-121.8978367	31		15	WAS 2019 PW3
50		Riser-4				32		19	
51	31994	EW-114	LFG Collector - Standard	37.2156196	-121.9010846	35		15	
52	39755	EW-154	LFG Collector - Standard	37.2155737	-121.8997444	36		22	
53	46005	EW-185	LFG Collector - Standard	37.2153905	-121.9003022	36		39	
54	49231	EW-186	LFG Collector - Standard	37.2154869	-121.8998067	36		27	
55	38190	EW-124	LFG Collector - Standard	37.2153568	-121.8985882	37		52	
56	54150	EW-215	LFG Collector - Standard	37.215772	-121.899337	37		37	
57	54150	EW-215	LFG Collector - Standard	37.215772	-121.899337	37		18	
58	49168	LC-191	LFG Collector - Standard	37.2152815	-121.8987616	37		26	
59	51834	EW-203	LFG Collector - Standard	37.2148903	-121.8973953	38		41	
60	39269	H-11L	Leachate Riser or Sump (LR)	37.2152234	-121.9024543	41		30	LCRS SOUTH
61	49170	LC-193	LFG Collector - Standard	37.2152829	-121.8997004	42		51	
62	48202	EW-183	LFG Collector - Standard	37.2151482	-121.897999	43		24	
63	54152	EW-217	LFG Collector - Standard	37.2151787	-121.8990435	43		17	
64	54152	EW-217	LFG Collector - Standard	37.2151787	-121.8990435	43		22	
65	60100	LC-235	LFG Collector - Standard	37.2151227	-121.8982697	43		30	WAS 2019 PW15
66		Riser-5				44		42	
67	54153	EW-218	LFG Collector - Standard	37.2148855	-121.8989922	50		29	
68	54153	EW-218	LFG Collector - Standard	37.2148855	-121.8989922	50		36	
69	48203	EW-184	LFG Collector - Standard	37.2147669	-121.8977769	55		34	
70	46006	EW-187	LFG Collector - Standard	37.2144877	-121.89889	55		20	
71	49169	LC-192	LFG Collector - Standard	37.2147005	-121.8985396	55		17	
72	42102	EW-173	LFG Collector - Standard	37.2145096	-121.8994779	59		49	
73	38195	EW-129	LFG Collector - Standard	37.2086995	-121.8522755	60		38	
74	54154	EW-219	LFG Collector - Standard	37.2142966	-121.898854	60		24	
75	54155	EW-220	LFG Collector - Standard	37.2145068	-121.8985888	60		15	
76	54154	EW-219	LFG Collector - Standard	37.2142966	-121.898854	60		77	
77	54155	EW-220	LFG Collector - Standard	37.2145068	-121.8985888	60		21	WAS 2019 PW4
78	60109	LC-244	LFG Collector - Standard	37.2148416	-121.8974755	61		43	
79		CS-1	Condensate Sump or Drain (CS)	37.2141842	-121.8986237	62		106	
80		CS-2	Condensate Sump or Drain (CS)	37.2148416	-121.8974755	62		98	
81		CS-3	Condensate Sump or Drain (CS)	37.2152234	-121.9024543	62		114	
82	54156	EW-221	LFG Collector - Standard	37.2141303	-121.8990035	65		29	
83	54156	EW-221	LFG Collector - Standard	37.2141303	-121.8990035	65		37	
84	60106	LC-241	LFG Collector - Standard	37.214152	-121.8981348	65		22	WAS 2019 PW10
85	60108	LC-243	LFG Collector - Standard	37.2141842	-121.8986237	65		16	WAS 2019 PW8
86	54161	EW-226	LFG Collector - Standard	37.2139737	-121.8975753	66		49	

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
87	54161	EW-226	LFG Collector - Standard	37.2139737	-121.8975753	66	4-13-22	35	
88	60103	LC-238	LFG Collector - Standard	37.2142127	-121.8969996	66		71	WAS 2019 PW11
89		Riser-6				67		45	
90	42101	EW-172	LFG Collector - Standard	37.21412	-121.8996291	69		22	
91	60105	LC-240	LFG Collector - Standard	37.2138042	-121.8978297	70		84	WAS 2019 PW13
92	49174	LC-197	LFG Collector - Standard	37.2138179	-121.8967375	71		29	
93	38197	EW-131	LFG Collector - Standard	37.2136797	-121.8993258	75		44	
94	60107	LC-242	LFG Collector - Standard	37.2138288	-121.8983188	75		28	WAS 2019 PW14
95	38201	EW-135	LFG Collector - Standard	37.2136061	-121.897305	76		33	
96	60104	LC-239	LFG Collector - Standard	37.2134243	-121.897615	76		66	WAS 2019 PW239
97	54159	EW-224	LFG Collector - Standard	37.2132002	-121.8974548	81		39	
98	54163	EW-228	LFG Collector - Standard	37.2132484	-121.8969069	81		70	
99	54159	EW-224	LFG Collector - Standard	37.2132002	-121.8974548	81		26	
100	54158	EW-223	LFG Collector - Standard	37.2129712	-121.8977091	84		49	
101	54158	EW-223	LFG Collector - Standard	37.2129712	-121.8977091	84		2	
102	54163	EW-228	LFG Collector - Standard	37.2132484	-121.8969069	85		35	Active
103	54157	EW-222	LFG Collector - Standard	37.2127377	-121.8981113	88		35	Active
104	54165	EW-230	LFG Collector - Standard	37.2126277	-121.8980338	88			
105	54157	EW-222	LFG Collector - Standard	37.2127377	-121.8981113	88			
106	54165	EW-230	LFG Collector - Standard	37.2126277	-121.8980338	88			
107	38200	EW-134	LFG Collector - Standard	37.2129335	-121.8970899	89			
108	54162	EW-227	LFG Collector - Standard	37.2129485	-121.8961233	89			
109	54162	EW-227	LFG Collector - Standard	37.2129485	-121.8961233	89			
110	23240	EW-112	LFG Collector - Standard	37.2127553	-121.8949208	90		1500	
111	54160	EW-225	LFG Collector - Standard	37.2126679	-121.8956942	90		21	
112	54160	EW-225	LFG Collector - Standard	37.2126679	-121.8956942	90		17	
113	23214	EW-65	LFG Collector - Standard	37.2123487	-121.896153	94			Active
114	23215	EW-66	LFG Collector - Standard	37.2119331	-121.8960039	98			Active
115	23211	EW-62	LFG Collector - Standard	37.2119254	-121.8968871	100			Active
116	38208	EW-142	LFG Collector - Standard	37.2118093	-121.8963646	102			Active
117	38204	EW-138	LFG Collector - Standard	37.2118108	-121.8959464	103		14	i

Orange Flag Landfill Surface Emissions Monitoring Exceedances and Monitoring Log

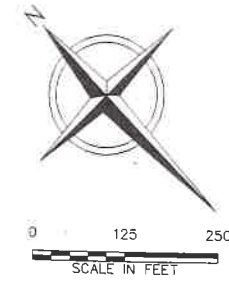
Site: G609/4/1

Quarter / Year:		2nd 2022						Page	of	Pages
Technician:		Leishnade								
Instrument:		TVA1000								
Calibration Standard:		500ppm								
Flag Number	Grid Number	Initial Monitoring Event		First Re-Monitoring Event - 10 Days		Second Re-Monitoring Event - 10 Days		30-Day Follow-up Monitoring		Comments
		Field Reading (ppm)	Date Monitored	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	
0-1	9D	1500	4-13-22							Well 112
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LEGEND

- PROPERTY BOUNDARY
- - - - - APPROXIMATE WASTE FOOTPRINT
- - - - - EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING REMOTE WELLHEAD
- EXISTING PROBE
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING LOCAL CONTROL WELL
- 105 SEM GRID BLOCK



NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEEN, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 83.
2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 5, 2020.
6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

INSTANTANEOUS 4-13-22

- GRIDS MONITORED
- Active Areas
- NO WASTE IN PLACE
- steep slopes
- 500+ppm












REV	DATE	DESCRIPTION	CHK BY	DES BY	APP BY

FINAL AS-BUILT
 GUADALUPE RECYCLING AND DISPOSAL FACILITY
 SAN JOSE, CALIFORNIA
 2020 GCCS IMPROVEMENTS

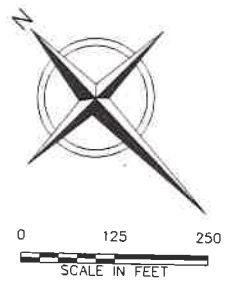
SEM GRID MAP

2020 K:\MKT\HWP\HWP\Project Drawings\2020\2020-04-13-FINAL\GUADALUPE_2020_04_13_FINAL.dwg 11:11:23 AM 4/13/2020




LEGEND

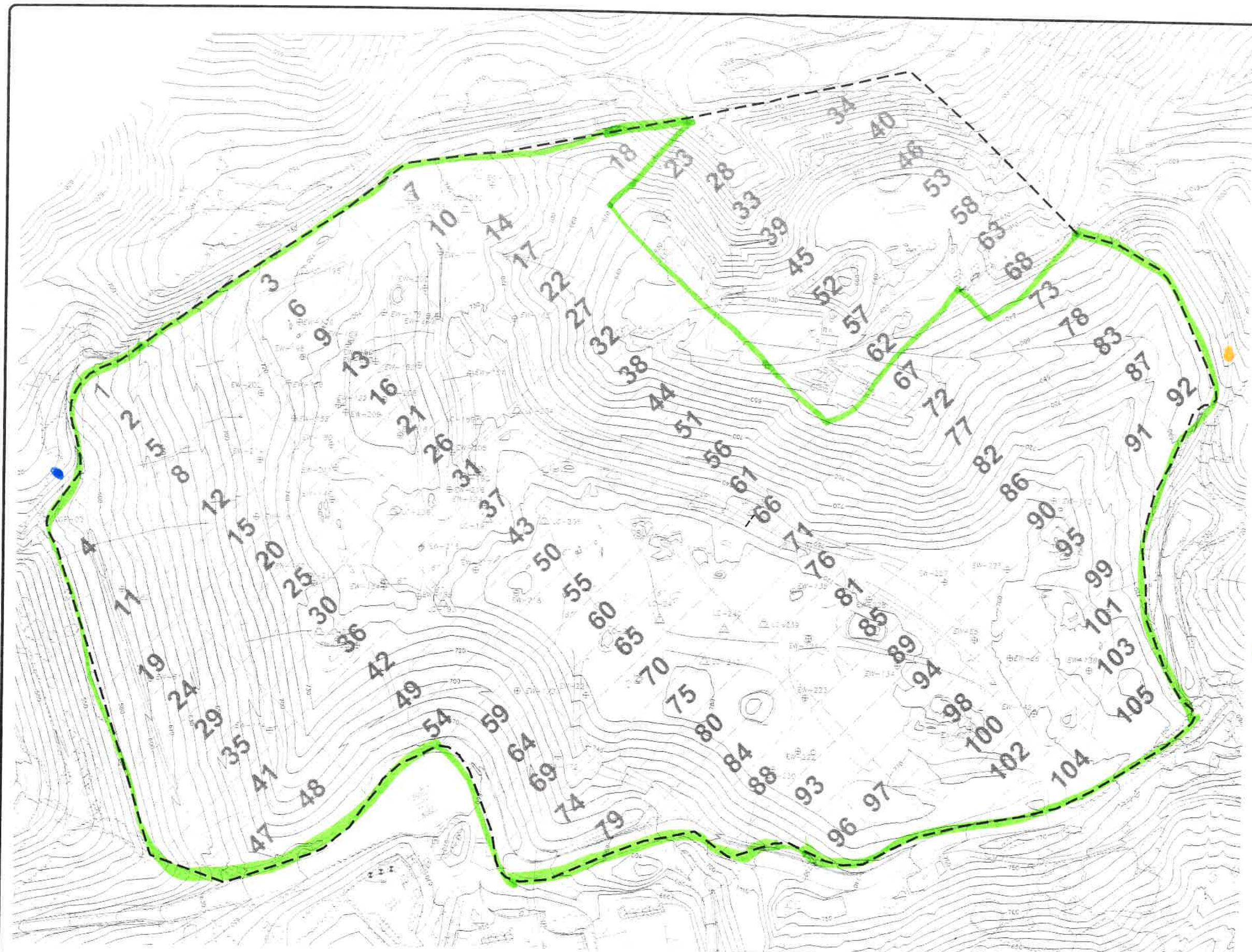
-  PROPERTY BOUNDARY
-  APPROXIMATE WASTE FOOTPRINT
-  EXISTING 10' CONTOUR
-  EXISTING LFG EXTRACTION WELL
-  EXISTING REMOTE WELLHEAD
-  EXISTING PROBE
-  EXISTING HORIZONTAL COLLECTOR WELLHEAD
-  EXISTING LOCAL CONTROL WELL
-  SEM GRID BLOCK

105



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURien, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
 2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
 3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
 4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
 5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
 6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
 7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

2ND Quarter NSPS
 PERIMETER SWEEP
 UPWIND
 DOWNWIND



2020 AS-BUILT UPDATE Project Drawing 20176-GUADALUPE_2020 AS-BUILT FINAL UPDATE_R000.dwg, Layout 53, User: CHELSEA/MMS, File 12, 2020 - 10:25am



REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE: 1/12/2020
 DRAWN BY: GVF
 DESIGNED BY: DFK
 CHECKED BY: AMN
 APPROVED BY: PJS



FINAL AS-BUILT

GUADALUPE RECYCLING AND DISPOSAL FACILITY
 SAN JOSE, CALIFORNIA
 2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO
3
 PROJECT NO
 20126

Attachment B

Integrated Surface Emission Monitoring Event Records

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

2022 QUARTER: 2

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

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

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGHWADE DWIGHT ANDERSON
RICK LEWIS NICK BENKS
CALVIN ORTIZ Cal. Gas Exp. Date: 6-9-23

Date: 4-12-22 Instrument Used: YVA1000 Grid Spacing: 25'

Temperature: 64 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LW	1100	1125	4.71	3	5	12	
2	RL	1100	1125	5.18	3	5	12	
3	DA	1100	1125	5.06	3	5	12	
4	CD	1100	1125	4.77	3	5	12	
5	NB	1100	1125	5.30	3	5	12	
6	LW	1125	1150	5.21	2	4	12	
7	RL	1125	1150	6.14	2	4	12	
8	DA	1125	1150	5.49	2	4	12	
9	CD	1125	1150	5.12	2	4	12	
10	NB	1125	1150	7.31	2	4	12	
11	LW	1150	1215	4.65	3	5	12	
12	RL	1150	1215	4.18	3	5	12	
13	DA	1150	1215	4.30	3	5	12	
15	CD	1150	1215	5.51	3	5	12	
16	NB	1150	1215	6.07	3	5	12	
19	LW	1215	1240	4.25	2	4	12	
20	RL	1215	1240	5.32	2	4	12	
21	DA	1215	1240	5.80	2	4	12	
24	CD	1215	1240	4.35	2	4	12	
25	NB	1215	1240	6.95	2	4	12	
26	LW	1240	1305	5.50	2	4	12	
29	RL	1240	1305	4.07	2	4	12	
30	DA	1240	1305	5.75	2	4	12	
31	CD	1240	1305	6.24	2	4	12	
35	NB	1240	1305	4.98	2	4	12	
36	LW	1305	1330	5.64	3	5	12	
37	RL	1305	1330	6.11	3	5	12	
41	DA	1305	1330	5.22	3	5	12	
42	CD	1305	1330	7.18	3	5	12	
43	NB	1305	1330	6.64	3	5	12	

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WARD OWEN ANDERSON
RICK LEMOS NICK BONICK
CELVIN ORTIZ Cal. Gas Exp. Date: 6-9-23

Date: 4-12-22 Instrument Used: LVA 1000 Grid Spacing: 25'

Temperature: 66 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
47	LW	1330	1355	4.55	3	5	12	
48	RL	1330	1355	5.39	3	5	12	
49	DA	1330	1355	6.03	3	5	12	
50	CO	1330	1355	5.58	3	5	12	
54	NB	1330	1355	4.27	3	5	12	
55	LW	1355	1420	5.80	4	7	12	
59	RL	1355	1420	5.35	4	7	12	
60	DA	1355	1420	6.79	4	7	12	
61	CO	1355	1420	6.04	4	7	12	
64	NB	1355	1420	5.50	4	7	12	
65	LW	1420	1445	6.37	3	5	12	
66	RL	1420	1445	6.59	3	5	12	
67	DA	1420	1445	7.34	3	5	12	
69	CO	1420	1445	6.54	3	5	12	
70	NB	1420	1445	7.18	3	5	12	
71	LW	1445	1510	5.40	4	6	12	
72	RL	1445	1510	6.27	4	6	12	
73	DA	1445	1510	6.92	4	6	12	
74	CO	1445	1510	5.20	4	6	12	
75	NB	1445	1510	6.35	4	6	12	
76	LW	1510	1535	5.30	1	2	12	
77	RL	1510	1535	6.61	1	2	12	
78	DA	1510	1535	5.98	1	2	12	
79	CO	1510	1535	6.11	1	2	12	
80	NB	1510	1535	5.47	1	2	12	
81	LW	1535	1600	6.10	3	5	13	
82	RL	1535	1600	4.25	3	5	13	
83	DA	1535	1600	4.07	3	5	13	
84	CO	1535	1600	5.21	3	5	13	
86	NB	1535	1600	5.46	3	5	13	

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGHWOOZ DWIGHT ANDERSON
RUILEMAS NICK BENKE
CELVIN ORTIZ Cal. Gas Exp. Date: 6-9-23

Date: 4-12-22 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 70 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
87	LW	1600	1625	4.16	2	4	12	
90	RL	1600	1625	4.21	2	4	12	
91	DA	1600	1625	5.06	2	4	12	
92	CO	1600	1625	4.75	2	4	12	
95	NB	1600	1625	3.25	2	4	12	
99	LW	1625	1650	3.16	5	7	12	
101	RL	1625	1650	4.50	5	7	12	
103	DA	1625	1650	3.77	5	7	12	
104	CO	1625	1650	3.45	5	7	12	
105	NB	1625	1650	4.17	5	7	12	

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leishman _____

 _____ Cal. Gas Exp. Date: _____

Date: 4-12-22 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								Active trash	
88									
89								↓	
93									
94									
96									
97									
98									
100									
102									
14									step slopes
18									↓
17									
22									
27									
32									
38									
44									
51									
56									
23								no waste in place	
28								↓	
33									
34									
39									
40									
45									
46									
52									
53								↓	

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WOOD

Cal. Gas Exp. Date: _____

Date: 4-12-22 Instrument Used: _____ Grid Spacing: _____

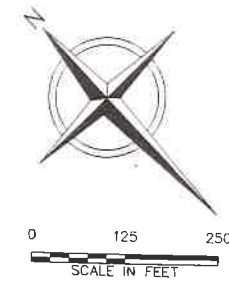
Temperature: _____ Precip: _____ Upwind BG: _____ Downwind BG: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
57								↓
58								
62								
63								
68								

Attach Calibration Sheet
 Attach site map showing grid ID

LEGEND

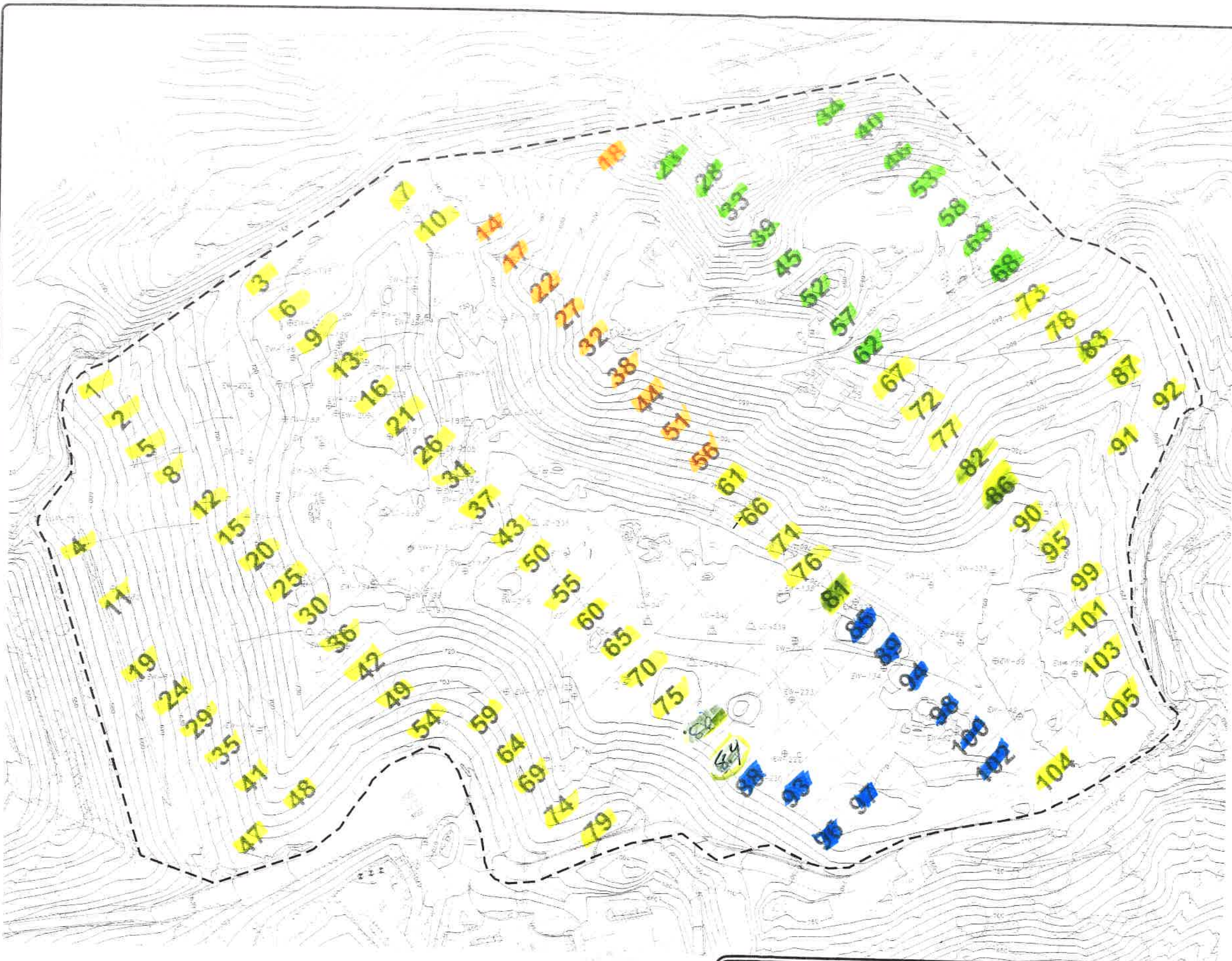
- PROPERTY BOUNDARY
- - - - - APPROXIMATE WASTE FOOTPRINT
- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING REMOTE WELLHEAD
- EXISTING PROBE
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING LOCAL CONTROL WELL
- 105 SEM GRID BLOCK



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BUREN, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020; DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 83.
 2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
 3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
 4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
 5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 5, 2020.
 6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
 7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

Integrated 4-12-22

- GRIDS MONITORED
- Active trash
- NO WASTE IN PLACE
- STEEP SLOPES



REV	DATE	DESCRIPTION	DRW BY	CHK BY	APP BY	OFF BY
1	7/2/2020					



FINAL AS-BUILT
 GUADALUPE RECYCLING AND DISPOSAL FACILITY
 SAN JOSE, CALIFORNIA
 2020 GCCS IMPROVEMENTS
SEM GRID MAP

SHEET NO
3
 PROJECT NO
 CCC-26

Project: 2020 AS-BUILT WASTE MANAGEMENT Improvements GUADALUPE, 2020 AS-BUILT FINAL UPDATE, Rev 12, 2020 - 10/23/20

Attachment C

Component Leak Monitoring Event Records

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

2022 QUARTER: 2

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		10-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station A-9	4/13/2022	ND	RES	NA	NA	NA	NA	NA
Flare Station A-14	4/13/2022	ND	RES	NA	NA	NA	NA	NA

ND= No Exceedances

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

2022 QUARTER: 2

INITIAL MONITORING PERFORMED BY: RES

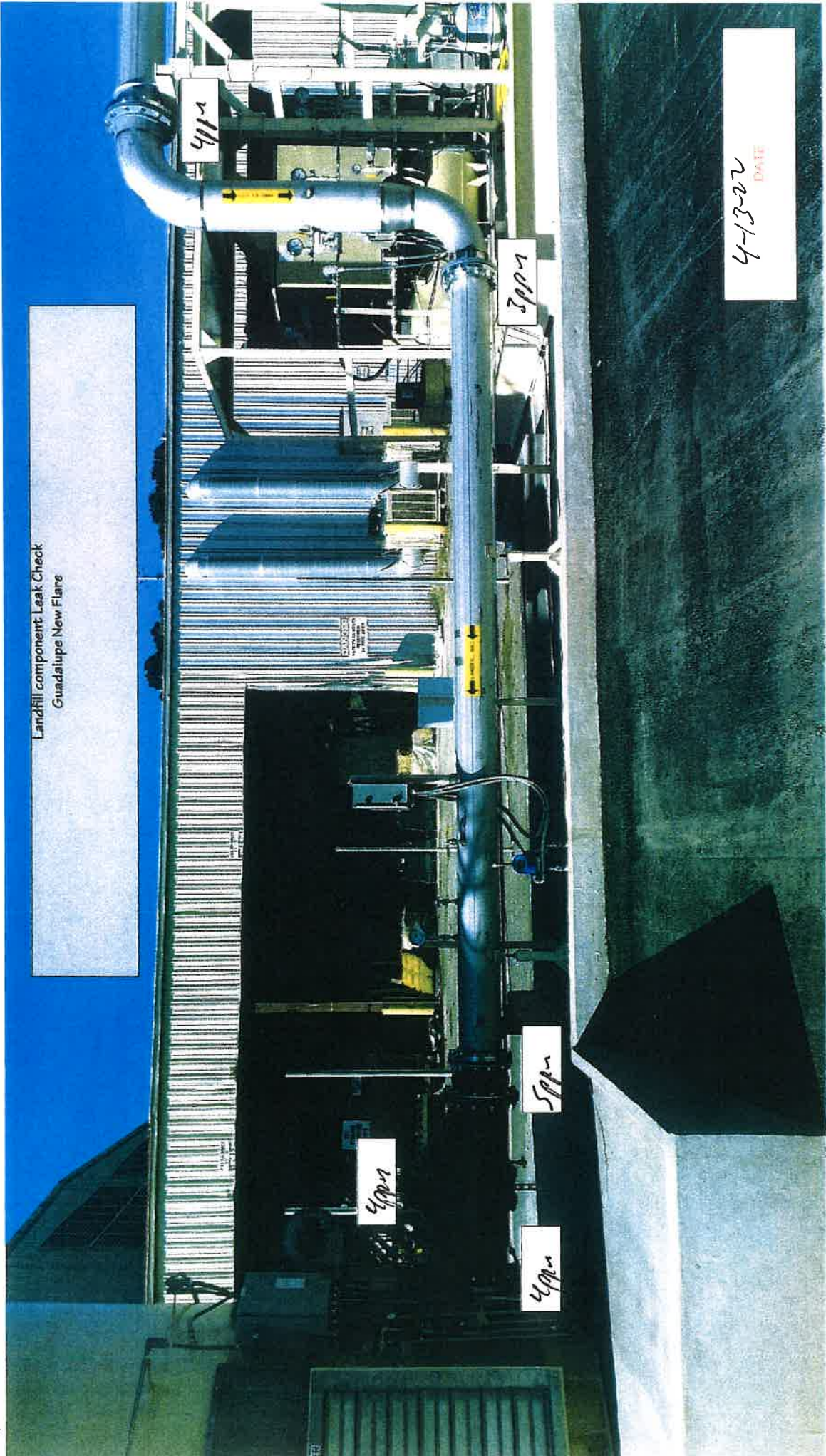
FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		7-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station A-9	4/13/2022	ND	RES	NA	NA	NA	NA	NA
Flare Station A-14	4/13/2022	ND	RES	NA	NA	NA	NA	NA

ND= No Exceedances

Landfill component Leak Check
Guadalupe New Flare



4-13-22
DATE

Landfill component Leak Check
Guadalupe New Flare



4-13-22
DATE

Landfill component Leak Check
Guadalupe New Flare



4-13-22
DATE

Landfill component Leak Check
Guadalupe



4ppm

3ppm

4-13-22
DATE

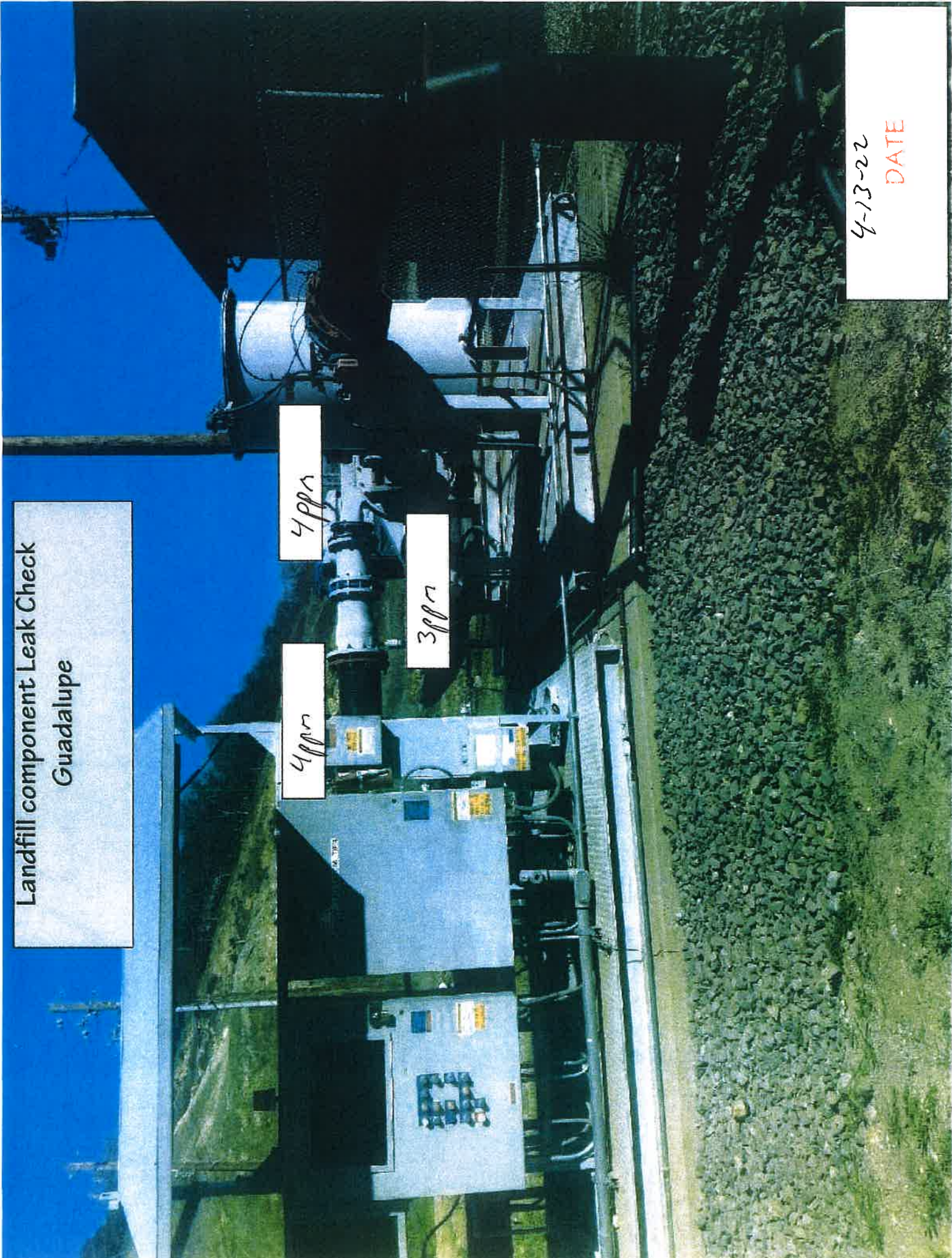
Landfill component Leak Check
Guadalupe

4ppm

4ppm

3ppm

4-13-22
DATE



Landfill component Leak Check
Guadalupe

4ppn

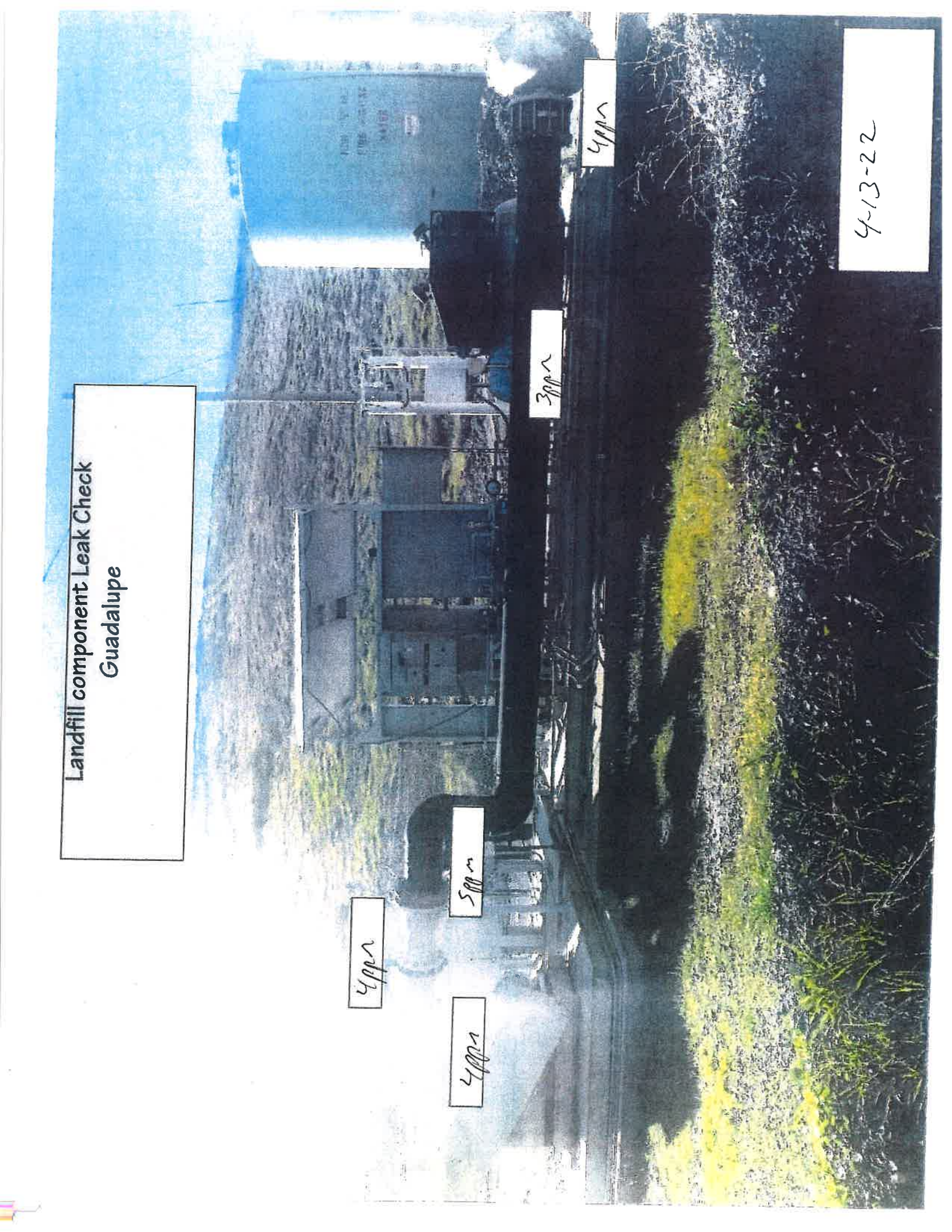
4ppn

5ppn

3ppn

4ppn

4-13-22



LANDFILL NAME: *6440914PE*

QUARTERLY LFG COMPONENT LEAK MONITORING

INSTRUMENT FID

MAKE: Thermo Environmental

MODEL: TVA 1000

S/N: *1036346773*

DATE OF SAMPLING: *4-13-22*

TECHNICIAN: *LB FINANE*

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

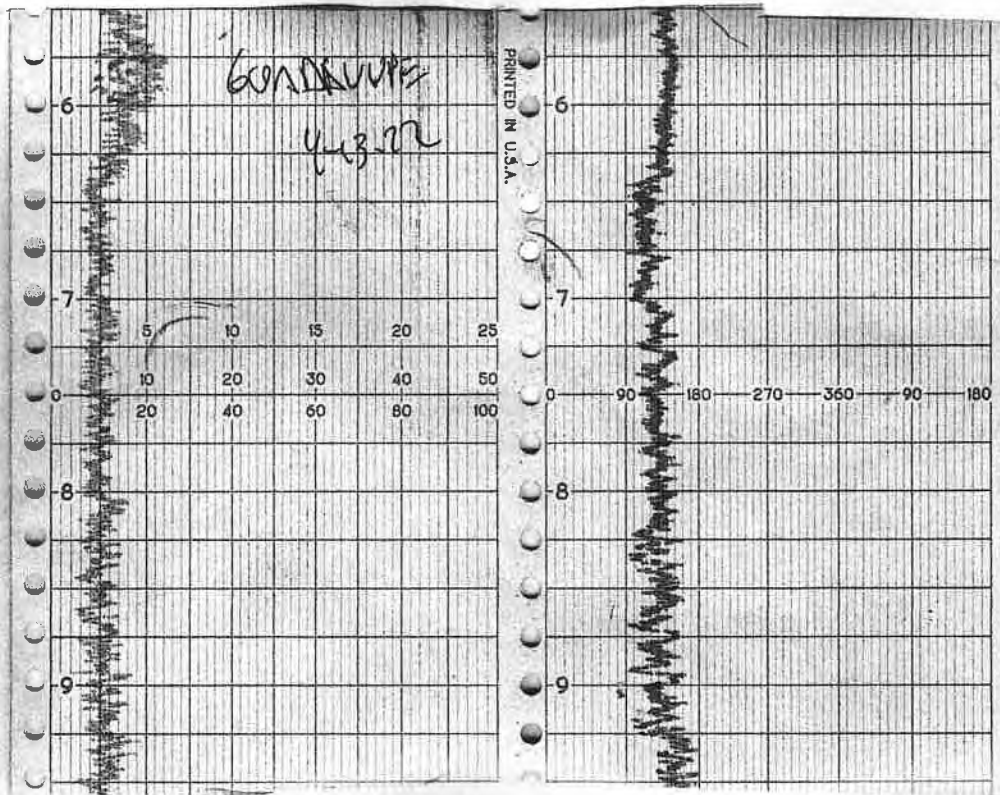
In the event that an exceedance is detected, please initiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.

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).

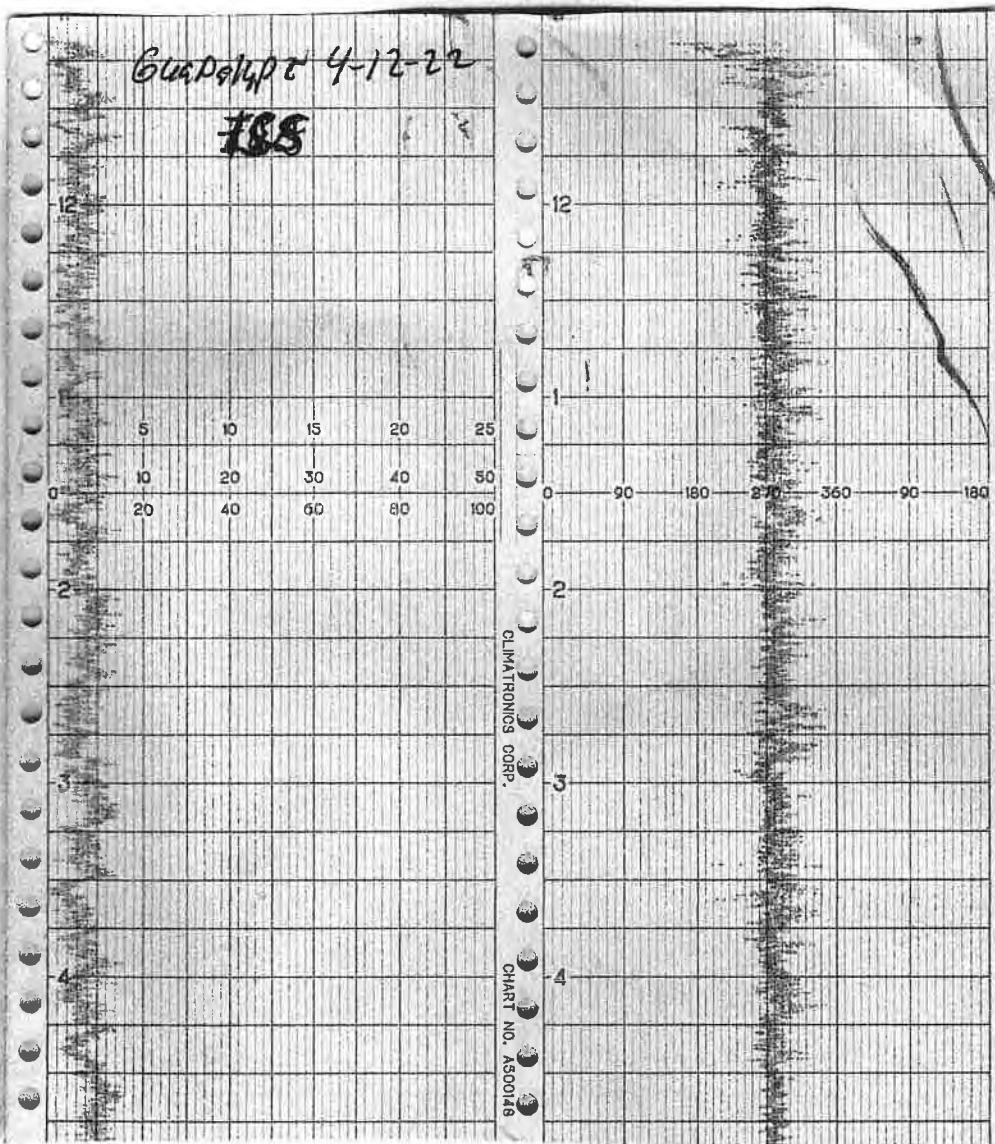
NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.

Attachment D
Weather Station Data

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL





16-POINT WIND DIRECTION INDEX

<u>NO</u>	<u>DIRECTION</u>	<u>DEGREES</u>		
		<u>FROM</u>	<u>CENTER</u>	<u>TO</u>
16	NORTH (N)	348.8	<u>369.0</u>	0.0
1	NORTH-NORTHEAST (NNE)	011.3	<u>022.5</u>	033.8
2	NORTHEAST (NE)	033.8	<u>045.0</u>	056.3
3	EAST-NORTHEAST (ENE)	056.3	<u>067.5</u>	078.8
4	EAST (E)	078.8	<u>090.0</u>	101.3
5	EAST-SOUTHEAST (ESE)	101.3	<u>112.5</u>	123.8
6	SOUTHEAST (SE)	123.8	<u>135.0</u>	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	<u>157.5</u>	168.8
8	SOUTH (S)	168.8	<u>180.0</u>	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	<u>202.5</u>	213.8
10	SOUTHWEST (SW)	213.8	<u>225.0</u>	236.3
11	WEST-SOUTHWEST (WSW)	236.3	<u>247.5</u>	258.8
12	WEST (W)	258.8	<u>270.0</u>	281.3
13	WEST-NORTHWEST (WNW)	281.3	<u>292.5</u>	303.8
14	NORTHWEST (NW)	303.8	<u>315.0</u>	326.3
15	NORTH-NORTHWEST (NNW)	326.3	<u>337.5</u>	348.8

Attachment E
Calibration Records

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

LANDFILL NAME 660048 INSTRUMENT MAKE Hera
 MODEL VA 1000 EQUIPMENT #: 10 SERIAL # 1036346773
 MONITORING DATE 4-13-22 TIME 0545

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: <u>(Upwind + Downwind)</u> 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>496</u> ppm	<u>446</u> ppm	<u>5</u>
#2	<u>502</u> ppm	<u>452</u> ppm	<u>5</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #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	<u>0.12</u> ppm	<u>496</u> ppm	<u>4</u>
#2	<u>0.08</u> ppm	<u>502</u> ppm	<u>2</u>
#3	<u>0.09</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.40</u> #DIV/0! Must be less than 10%

Performed By LEIGH WADK Date/Time 4-13-22-0545

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

LANDFILL NAME Gucco/490 INSTRUMENT MAKE Hanna
 MODEL HNA-1000 EQUIPMENT # 11 SERIAL #: 1636346772
 MONITORING DATE 4-13-22 TIME: 0545

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: <u>(Upwind + Downwind)</u> 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #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	<u>0.11</u> ppm	<u>500</u> ppm	<u>7</u>
#2	<u>0.09</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.07</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.46</u> #DIV/0! Must be less than 10%

Performed By R. Williams Date/Time 4-13-22-0545

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Goodlyar INSTRUMENT MAKE FHER10
 MODEL LVA1000 EQUIPMENT #: 12 SERIAL # 1036246741
 MONITORING DATE 4-13-22 TIME 0545

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
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>496</u> ppm	<u>446</u> ppm	<u>4</u>
#2	<u>502</u> ppm	<u>452</u> ppm	<u>4</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #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	<u>0.15</u> ppm	<u>496</u> ppm	<u>4</u>
#2	<u>0.12</u> ppm	<u>502</u> ppm	<u>2</u>
#3	<u>0.06</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.40</u> #DIV/0! Must be less than 10%

Performed By Dwight Anderson Date/Time 4-13-22-0545

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME GeoDg lupr INSTRUMENT MAKE Thermo
 MODEL FA1000 EQUIPMENT # 13 SERIAL # 1102746775
 MONITORING DATE: 4-13-22 TIME 0545

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: <u>(Upwind + Downwind)</u> 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>509</u> ppm	<u>459</u> ppm	<u>4</u>
#2	<u>499</u> ppm	<u>449</u> ppm	<u>4</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #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	<u>0.15</u> ppm	<u>509</u> ppm	<u>9</u>
#2	<u>0.10</u> ppm	<u>499</u> ppm	<u>1</u>
#3	<u>0.05</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.66</u> #DIV/0! Must be less than 10%

Performed By Calvin Ortiz Date/Time 4-13-22-0545

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

LANDFILL NAME Gas Sluys INSTRUMENT MAKE: Hanna
 MODEL LV1000 EQUIPMENT # 16 SERIAL # 1102746776
 MONITORING DATE: 4-13-22 TIME: 0545

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: <u>(Upwind + Downwind)</u> 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>489</u> ppm	<u>439</u> ppm	<u>6</u>
#2	<u>502</u> ppm	<u>452</u> ppm	<u>6</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #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	<u>0.17</u> ppm	<u>489</u> ppm	<u>11</u>
#2	<u>0.11</u> ppm	<u>502</u> ppm	<u>2</u>
#3	<u>0.10</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.86</u> #DIV/0! Must be less than 10%

Performed By Nick Banks Date/Time 4-13-22-0545

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME 660091408 INSTRUMENT MAKE Fisher
 MODEL WA1000 EQUIPMENT #: 10 SERIAL # 1036346773
 MONITORING DATE 4-12-22 TIME 1100

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #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	<u>0.21</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.04</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1-3</u> #DIV/0! Must be less than 10%

Performed By LEISHMAN Date/Time 4-12-22 1100

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME Geoselyne INSTRUMENT MAKE HiVox
 MODEL VA1000 EQUIPMENT # 11 SERIAL # 1636346772
 MONITORING DATE 4-12-22 TIME 1100

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>23</u> ppm	<u>20.7</u> ppm	<u>5</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #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	<u>0.10</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.06</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By R. L. Lomas Date/Time 4-12-22 - 1100

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME 0409/4/16 INSTRUMENT MAKE Fluoro
 MODEL FVA1000 EQUIPMENT #: 12 SERIAL # 1636246741
 MONITORING DATE 4-12-22 TIME 1100

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: <u>(Upwind + Downwind)</u> 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #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	<u>0.16</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.09</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.05</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By Dwight Anderson Date/Time 4-12-22-1100

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME Goodly/12 INSTRUMENT MAKE HiGen 20
 MODEL LVA1000 EQUIPMENT # 13 SERIAL # 1102746775
 MONITORING DATE: 4-12-22 TIME 1100

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: <u>(Upwind + Downwind)</u> 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>23</u> ppm	<u>20.7</u> ppm	<u>5</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			#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	<u>0.05</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.04</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.03</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>4.0</u> #DIV/0! Must be less than 10%

Performed By Calvin Ortiz Date/Time 4-12-22 - 1100

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME Gauglype INSTRUMENT MAKE Horro
 MODEL FVA1000 EQUIPMENT # 16 SERIAL # 1162746776
 MONITORING DATE 4-12-22 TIME 1100

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: <u>(Upwind + Downwind)</u> 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #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	<u>0.11</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.08</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.05</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By NICK DENNIS Date/Time 4-12-22 - 1100

**SURFACE EMISSION MONITORING INSTRUMENT
 CALIBRATION LOG**

Site: _____

Purpose: _____

Operator: M. M.

Date: 4-1-22 Time: 0715

Model # TVA 1000

Serial # #11 1036346774

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.3</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<u>Pass</u> / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<u>Pass</u> / Fail / NA	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	<u>Pass</u> / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>4-1-22</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<u>Pass</u> / Fail	Time required to attain 90% of Cal Gas ppm		
		1. <u>5</u>		
		2. <u>5</u>		
		3. <u>5</u>		
		Average <u>5.0</u>		
		Equal to or less than 30 seconds?	<u>Pass</u>	N
		Instrument calibrated to <u>CH₄</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM

Date: 4-1-22 Time: 0700

Model # TA1000

Serial # #12 1036246741

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	Pass / Fail	CALIBRATION CHECK		
Reading following ignition	2.5 ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	Pass / Fail / NA	500	500	100%
Clean system check (check valve chatter)	Pass / Fail / NA	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	Pass / Fail / NA	Calibration Gas, ppm <u>500</u>		
Date of last factory calibration	4-1-22	90% of Calibration Gas, ppm <u>450</u>		
Factory calibration record w/instrument within 3 months	Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1. <u>6</u>		
		2. <u>6</u>		
		3. <u>4</u>		
		Average <u>5.3</u>		
		Equal to or less than 30 seconds? <input checked="" type="radio"/> Y <input type="radio"/> N		
		Instrument calibrated to <u>CH₄</u> gas.		

Comments: _____

**SURFACE EMISSION MONITORING INSTRUMENT
 CALIBRATION LOG**

Site: _____

Purpose: _____

Operator: MM

Date: 4-1-22 Time: 0645

Model # HA 1000

Serial # #13 1102746775

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="radio"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<input checked="" type="radio"/> Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<input checked="" type="radio"/> Pass / Fail / NA	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	<input checked="" type="radio"/> Pass / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>4-1-22</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<input checked="" type="radio"/> Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1. <u>4</u>		
		2. <u>4</u>		
		3. <u>6</u>		
		Average <u>4.6</u>		
		Equal to or less than 30 seconds?	<input checked="" type="radio"/>	N
		Instrument calibrated to <u>CH₄</u> gas.		

Comments: _____

**SURFACE EMISSION MONITORING INSTRUMENT
 CALIBRATION LOG**

Site: _____

Purpose: _____

Operator: MM

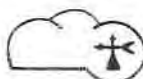
Date: 4-1-22 Time: 0600

Model # 70A 1000

Serial # #16 1102746776

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="radio"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.3</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<input checked="" type="radio"/> Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<input checked="" type="radio"/> Pass / Fail / NA	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	<input checked="" type="radio"/> Pass / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>4-1-22</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<input checked="" type="radio"/> Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1. <u>5</u>		
		2. <u>5</u>		
		3. <u>5</u>		
		Average <u>5.0</u>		
		Equal to or less than 30 seconds?	<input checked="" type="radio"/>	N
		Instrument calibrated to <u>CH₄</u> gas.		

Comments: _____



CUSTOMER: RES Unit #10

SERIAL NUMBER: 1036346773

TECHNICIAN: JM M DATE: 4-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	499	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.61	< 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.



TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES Unit # 11

SERIAL NUMBER: 1036346779

TECHNICIAN: JM DATE: 4-1-22

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	0.68	< 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.



CUSTOMER: RES Unit #12

SERIAL NUMBER: 1036246741

TECHNICIAN: MM DATE: 4-1-22

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	10000	+/- 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.



TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES Unit #14

SERIAL NUMBER: 103634671

TECHNICIAN: MM DATE: 4-1-27

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	501	+/- 125
10000	10000	10000	+/- 2500
< 1	ZERO GAS	0.62	< 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.



CUSTOMER: NES Cat #16

SERIAL NUMBER: 1102746776

TECHNICIAN: JM

DATE: 4-1-22

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	0.61	< 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.



INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

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

Lot #	19-6779
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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

PSIG and 1,000 PSIG

103 L

Avenue, Irvine, CA 92614
201-8150 Fax (949) 757-0363

CONTAINS GAS UNDER PRESSURE
Read label before use. Do not
exceed cylinder pressure.
Do not handle until all gas is
released.
Use a back flow preventer
slowly. Close valve after use.
Data Sheet (SDS) before use.
Dispose of content and container
properly.
DO NOT REMOVE TAGS
Federal law forbids reuse of
compressed gas container. To do so may be
dangerous and illegal.



103 L

COA



Lot#
18-8778

1503M-1102
104
BIDS



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CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

25 ppm

Balance

Analytical Accuracy

± 5%

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

ProSupply Service INC.

Concentration (Mole%) Accuracy
+/- 5%

(CH₄) - 25 ppm
- Balance

Methane



CONTAINS GAS UNDER PRESSURE

Read label before use. Use only as directed. Label at hand. Use appropriate PPE.

Do not handle until all safety instructions are read. Wear eye protection, gloves, and appropriate PPE.

Use a back flow preventer when connecting to equipment. Close valve after use. Store in a cool, dry place away from sunlight when not in use.

Dispose of current and/or return to supplier.

DO NOT REMOVE THIS LABEL

Federal law prohibits interstate commerce of this product (49 CFR 192.401-5124). Federal law prohibits interstate commerce of this product.

Pressure 3.67^{psi} @ 70°F and 1,000 PSIG

Exp Date
7/10/2024

Lot#: 17-6074

P/N:23-0025

103 L

Kaiser Avenue, Irvine, CA 92614
757-0363 or (800) 201-8150 Fax (949) 757-0363

103-23-0025
Methane 25 ppm/
Oxygen 20.9%/ Nitrogen

103 L

Lot #
17-6074



COA
2 of 2



INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	25 ppm	± 5%
Air	Balance	

Lot #	17-6074
--------------	----------------

Mfg. Date: 10/16/2017

Parent Cylinder ID 17161

Number:

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

WinoSupply Service INC.

Concentration (Mole%) Accuracy
Methane (CH₄) - 25 ppm
Oxygen - Balance +/- 5%

Methane



CONTAINS GAS
Read label before use
label at hand.
Do not handle with
protective gloves.
Use a back flow preventer
slowly. Close valve when
sunlight when not in
use.
Dispose of contents
DO NOT REUSE
Federal law (under
5124). Federal

Contents: 3.6ft³ @ 70°F and 1,000 PSIG

Exp Date
4/27/2025

Lot#: 17-6074

P/N:23-0025

103 L

1 Kaiser Avenue, Irvine, CA 92614
714-835-0353 or (800) 201-8150 Fax (949) 757-0363

103-23-0025
Methane 25 ppm/
Oxygen 20.9% / Nitrogen

103 L

Lot #
17-6074



DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104

Intermountain Specialty Gases

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



"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
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 TWC001763
Number:

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.

Concentration (Mole%) Accuracy
500 ppm
Balance +/- 2%

70°F and 1,000 PSIG

Exp Date

7/10/2024

Lot#: 20-7497

P/N:23-0500

103 L

Avenue, Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0363

Methane (0.000)



WA

CONTAINS GAS UNDER PRESSURE

Read label before use. Keep out of reach of children. Keep label at hand. Use equipment according to manufacturer's instructions.

Do not handle until all safety precautions are read. Wear protective gloves, protective clothing.

Use a back flow preventive device to prevent backflow. Open slowly. Close valve after each use and store in a cool, dry place. Do not use in sunlight when ambient temperature is above 100°F.

Dispose of content and/or container in accordance with applicable regulations.

DO NOT REMOVE THIS PRODUCT LABEL

Federal law forbids transportation of this product in motor vehicles (49 CFR 173.34). Federal law prohibits selling this product in motor vehicles.

103-23-0500
500 ppm/
20.0% Nitrogen

103 L

Lot #
20-7497



COA



4 of 4



INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	500 ppm	± 2%
Air	Balance	

Lot #	19-6955
--------------	----------------

Mfg. Date: 7/24/2019

Parent Cylinder ID 001763

Number:

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: 7/24/2019



Concentration (Mole%) Accuracy
500 ppm +/- 2%
Balance

Exp Date
11/7/2023

Lot#: 19-6955

P/N: 23-0500

103 L

Irvine, CA 92614
201-3150 Fax (949) 757-0363

Methane (CH₄)



CONTAINS GAS UNDER PRESSURE
Read label before use. Keep label at hand. Use equipment in accordance with label instructions.
Do not handle until all safety precautions are read and understood. Wear protective gloves, correct clothing, eye protection, and footwear.
Use a back flow preventer and use slowly. Close valve after use. Do not use in sunlight when ambient temperature is above 50°F.
Dispose of contents in accordance with applicable regulations.
DO NOT REMOVE THIS LABEL
Federal law prohibits transportation of this gas in a motor vehicle (49 CFR 173.301-173.302). Federal law prohibits refilling of this gas in a motor vehicle (49 CFR 173.301-173.302).

23-0500
500 ppm/
20.9% Nitrogen

103 L

COA



Lot #
19-6955

4 of 5

DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104

CAUTION
FEDERAL LAW FORBIDS
TRANSPORTATION IF
REFILLED-PENALTY UP
TO \$500,000 FINE AND
3 YEARS IMPRISONMENT

Intermountain Specialty Gases

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



CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
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 001763
Number:

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

MicroSupply & Service
INC

Concentration (Mole%) Accuracy

(CH₄) - 500 ppm
v: Balance

+/- 2%

3.6ft³ @ 70°F and 1,000 PSIG

Exp Date
6/26/2023



103 L

1031 Kaiser Avenue, Irvine, CA 92614
Tel: 949-757-0353 or (800) 201-8150 Fax: (949) 757-0363

500 ppm/
Nitrogen

103 L COA

Lot #
18-6641

1100/1505M-1102
NRC 76

EQUIPGO

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# 260447
P/N MET-500-103L

EXP: JAN/2025

EQUIPGO

SALES & SERVICE

2100 MERIDIAN PARK BLVD
Concord, CA 94520
TO REORDER CALL 1 (888) 234-5678

AIR, ULTRA ZERO
THC <0.2 PPM

Analytical Accuracy +/- 2%

103L @ 70F & 1000 PSIG
Lot# 260362
P/N AIR-ZER-103L

EXP: JAN/2025

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Guadalupe Date: 5/9/22
Time: 8:05 AM _____ PM
Instrument Make: TVA-10006 Model: Thermal S/N: 0928538411

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.

2. Introduce the calibration gas into the probe.

Stable Reading = 501 ppm

3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

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

Calculate Background Value:

$$\frac{(a) + (b)}{2} \text{ Background} = \underline{1.5} \text{ ppm}$$

Performed By: Rehler

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Gundakpe Date: 4/14/22
Time: 7:30 AM _____ PM
Instrument Make: TVA 1000B Model: Thermal S/N: 0978538411

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.
Stable Reading = 504 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

Calculate Background Value:

$$\frac{(a) + (b)}{2} \quad \text{Background} = \underline{1.5} \text{ ppm}$$

Performed By: 

CALIBRATION PRECISION TEST RECORD

Landfill Name: Krbx Date: 4/7/22
Expiration Date (3 months): 7/7/22
Time: 6:45 AM _____ PM
Instrument Make: TVA100B Model: Thermal S/N: 0928538911

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 501 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 499 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 502 ppm (f)

Calculate Precision:

$$\frac{\{|(500) - (b)| + |(500) - (d)| + |(500) - (f)|\}}{3} \times \frac{1}{500} \times 100$$

_____ % (must be < than 10%)

Performed By: *[Signature]*

RESPONSE TIME TEST RECORD

Date: 4/7/22

Expiration Date (3 months): 7/7/22

Time: 645 AM _____ PM

Instrument Make: TVA 1000B Model: THERMAL S/N: 092853411

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: 5 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 498 ppm
90% of the Stabilized Reading: 448 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 4 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 451 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 5 seconds (c)

Calculate Response Time:

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

Performed By: R. Jones



Guadalupe Rubbish Disposal Company, Inc.
15999 Guadalupe Mines Road
PO Box 20957
San Jose, California 95160
T: 408.268.1670

October 5, 2022

Ms. Becky Azevedo
Guadalupe Rubbish Disposal Co., Inc
15999 Guadalupe Mines Road
San Jose, CA 95120

**Re: Third Quarter 2022 Surface Emissions and Component Leak Monitoring Report
for Guadalupe Recycling & Disposal Facility**

Dear Ms. Azevedo:

This monitoring report for “**Guadalupe Rubbish Disposal Co., Inc. (GRDC)**” contains the results of the Third Quarter 2022 Integrated and Instantaneous Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by Roberts Environmental Services, LLC (RES). Re-monitoring of surface emissions and component leak monitoring was conducted by RES and/or Waste Management (WM) personnel.

APPLICABLE REQUIREMENTS

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

Surface Emission Monitoring (SEM)

- New Source Performance Standard (NSPS), Title 40 of the Code of Federal Regulations (CFR) §60.755 (c) and (d), 40 CFR 60, Appendix A Method 21, promulgated by the United States Environmental Protection Agency (USEPA).
- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95460 to §95476, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).
- Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) and Section 607 (Landfill Surface Inspection Procedures).
- United States Environmental Protection Agency’s (USEPA) *Standards of Performance for Municipal Solid Waste Landfills*; 40 Code of Federal Regulations (CFR) Part 63, Subpart AAAA-National Emission Standards for Hazardous Air Pollutants (NESHAP).

Component Leak

- 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 AB32 LMR.

GRDC 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 GRDC disposal area has been divided into one-hundred-and-five (105), approximately 50,000 square foot monitoring grids. Of these grids, eleven (11) currently have no waste in place. 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 GRDC 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.

The monitoring probe was positioned 2 inches above the ground surface. While walking, the wand tip of the FID was held within 2 inches of the landfill surface while traversing the grid. Per the approved alternative request, the wand tip of the FID was held at 2 inches of vegetation in areas where the landfill surface is covered with low-lying vegetation such as grasses while traversing the grid.

Instantaneous Surface Emissions Monitoring

The Instantaneous and Integrated SEM was conducted using flame ionization detectors (FID), 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 FIDs were calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The 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 2 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

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

- Leaks between 500 and 999 ppm_v must be corrected and re-monitored within 10 days of the initial exceedance.
- Leaks at or above 1000 ppm_v must be corrected and re-monitored within 7 days of the initial exceedance.

THIRD QUARTER 2022 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the Third Quarter 2022.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on September 12, 2022, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

Initial Monitoring Event Exceedances of 500 ppm_v

There were no exceedance locations of 500 ppm_v as methane detected on September 12, 2022. No corrective actions were required during this monitoring period.

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was not required during this monitoring period. All locations during initial monitoring were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was not required during this monitoring period. All locations during initial monitoring 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. 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 September 13, 2022, 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 monitoring on September 13, 2022.

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 September 12, 2022. No leaks greater than 500 ppm_v were identified during this monitoring period. 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 strip chart data is scanned and included in Attachment D.

Precipitation Requirements

Per the GRDC'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
- Surface Monitoring Weather Data
- SEM Map

Attachment B – Integrated Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- Surface Monitoring Weather Data
- SEM Map

Ms. Becky Azevedo

October 5, 2022

Page 7

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

2022 QUARTER: 3
PERFORMED BY: RES
LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments
None				
Notes: Please refer to field data sheets for details				

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

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY NA

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

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	
None											

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

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			Comments
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	
None									

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

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: **Guadalupe Recycling & Disposal Facility**

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

GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH WOOD DWYLL ANDERSON
NICK BRILES JOSH RIZO
KEVIN ORTIZ

Cal. Gas Exp. Date: 7-10-24

Date: 9-12-22 Instrument Used: FVA1000 Grid Spacing: 25'

Temperature: 89 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LW	1130	1145	39	1	1	10	
2	NB	1130	1145	25	1	1	10	
3	CD	1130	1145	23	1	1	10	
4	DA	1130	1145	16	1	1	10	
5	JR	1130	1145	39	1	1	10	
8	LW	1145	1200	41	1	2	10	
11	NB	1145	1200	14	1	2	10	
19	CD	1145	1200	13	1	2	10	
24	DA	1145	1200	11	1	2	10	
29	JR	1145	1200	17	1	2	10	
31	LW	1200	1215	54	2	2	10	
35	NB	1200	1215	16	2	2	10	
36	CD	1200	1215	58	2	2	10	
37	DA	1200	1215	44	2	2	10	
41	JR	1200	1215	20	2	2	10	
42	LW	1215	1230	60	1	1	10	
43	NB	1215	1230	51	1	1	10	
47	DA	1215	1230	20	1	1	10	
48	CD	1215	1230	37	1	1	10	
49	JR	1215	1230	39	1	1	10	
50	LW	1230	1245	32	1	2	10	
54	NB	1230	1245	60	1	2	10	
55	CD	1230	1245	44	1	2	10	
59	DA	1230	1245	29	1	2	10	
60	JR	1230	1245	43	1	2	10	
61	LW	1245	1300	25	1	1	10	
64	NB	1245	1300	19	1	1	10	
65	DA	1245	1300	25	1	1	10	
66	CD	1245	1300	48	1	1	10	
67	JR	1245	1300	41	1	1	10	

Attach Calibration Sheet
 Attach site map showing grid ID

**GUADALUPE LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: LEIGH WOOD DWIGHT ANDERSON
NICK BENICKS JOSE RIZO
COLUMA OLIVERA Cal. Gas Exp. Date: 7-10-24

Date: 9-12-22 Instrument Used: VUA1000 Grid Spacing: 25

Temperature: 97 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
69	LW	1300	1315	19	1	2	1	
70	NB	1300	1315	57	1	2	1	
71	DA	1300	1315	25	1	2	1	
72	CO	1300	1315	31	1	2	1	
73	JN	1300	1315	24	1	2	1	
74	LW	1315	1330	27	2	3	10	
76	NB	1315	1330	45	2	3	10	
77	CO	1315	1330	21	2	3	10	
78	DA	1315	1330	17	2	3	10	
79	JN	1315	1330	20	2	3	10	
82	LW	1330	1345	36	1	1	16	
83	NB	1330	1345	29	1	1	16	
86	DA	1330	1345	20	1	1	16	
87	CO	1330	1345	17	1	1	16	
90	JN	1330	1345	14	1	1	16	
91	LW	1345	1400	21	1	2	2	
92	NB	1345	1400	16	1	2	2	
94	DA	1345	1400	51	1	2	2	
95	CO	1345	1400	18	1	2	2	
98	JN	1345	1400	39	1	2	2	
99	LW	1400	1415	16	2	2	2	
100	NB	1400	1415	27	2	2	2	
101	DA	1400	1415	19	2	2	2	
102	CO	1400	1415	21	2	2	2	
103	JN	1400	1415	18	2	2	2	
104	LW	1415	1430	21	4	6	16	
105	NB	1415	1430	17	4	6	16	

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEISHWOOD _____

 _____ Cal. Gas Exp. Date: _____

Date: 9-12-22 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	
75								Active Area
80								↓
81								
84								
85								
88								
89								
93								
96								
97								
6								
7								
9								
10								
12								
13								
15								
16								
18								
20								
21								
25								
26								
30								
14								
17								
22								
27								
32								
38								

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH WOOD

Cal. Gas Exp. Date: _____

Date: 9-12-22 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	
44								
51								
56								
23								NO WASTE IN PLACE
28								
33								
34								
39								
40								
45								
46								
52								
53								
57								
58								
62								
63								
68								

Attach Calibration Sheet
Attach site map showing grid ID

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

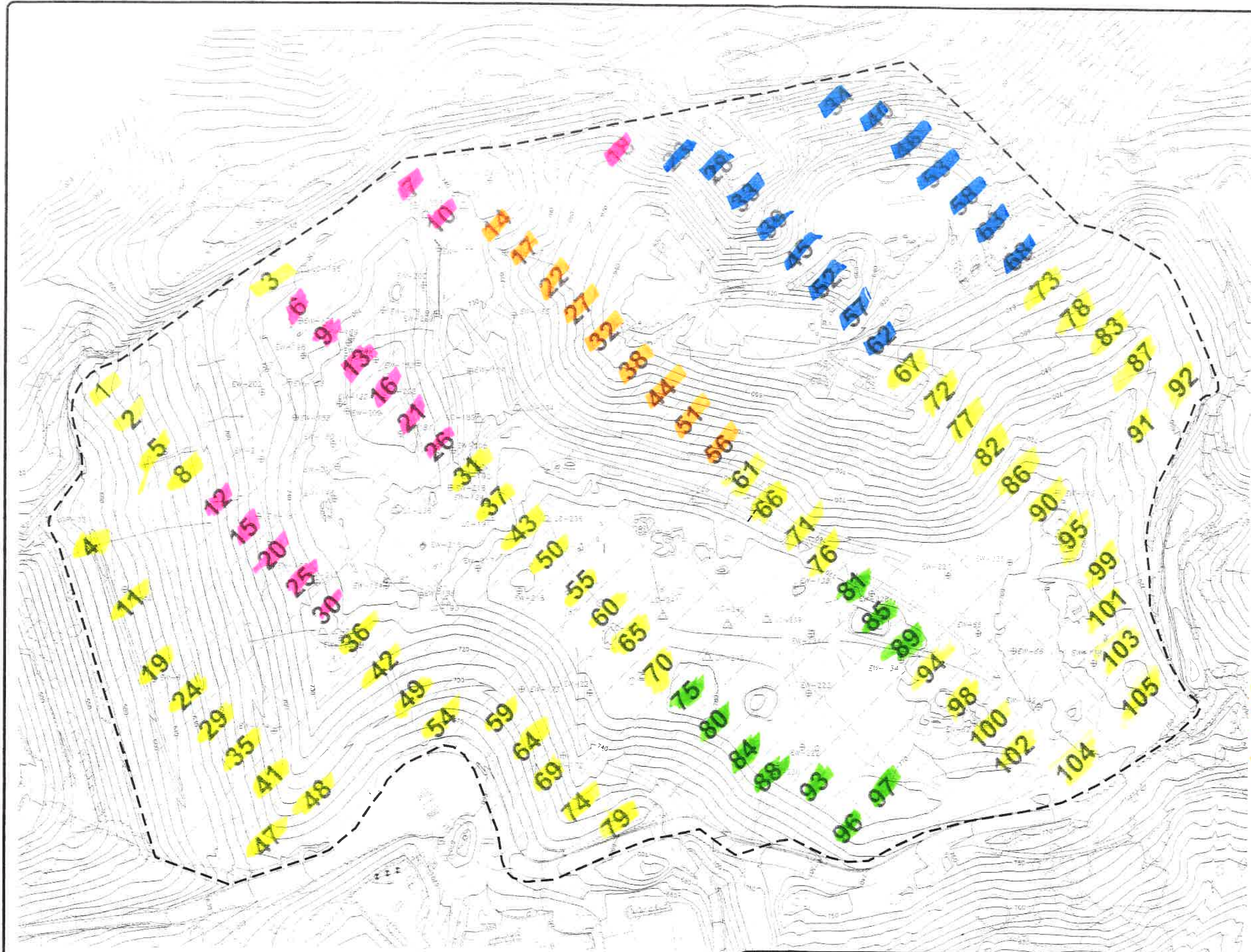
No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
1		Riser-1				1	9-12-22	18	
2		Riser-2				3		7	
3	39270	H-12L	Leachate Riser or Sump (LR)	37.2175051	-121.9013879	4		9	LCRS NORTH
4	46004	EW-179	LFG Collector - Standard	37.2172819	-121.8987819	6			Active stockpile
5	49173	LC-196	LFG Collector - Standard	37.217485	-121.8971917	7			Active
6		Riser-3				7			Active
7	51829	EW-198	LFG Collector - Standard	37.217173	-121.8988572	9			Active
8	51833	EW-202	LFG Collector - Standard	37.2171697	-121.8994333	9			Active
9	45884	EW-176	LFG Collector - Standard	37.2171275	-121.896709	10			Active
10	45883	EW-177	LFG Collector - Standard	37.217047	-121.8974175	10			Active
11	60097	LC-232	LFG Collector - Standard	37.2171237	-121.8970001	10			WAS 2019 PW6 Stockpile
12	60098	LC-233	LFG Collector - Standard	37.2172233	-121.8972595	10			WAS 2019 PW7
13	23223	EW-82	LFG Collector - Standard	37.216757	-121.9015677	11		14	
14	54149	EW-214	LFG Collector - Standard	37.2168516	-121.8997801	12			conversion stockpile
15	54149	EW-214	LFG Collector - Standard	37.2168516	-121.8997801	12			
16	38188	EW-122	LFG Collector - Standard	37.2167213	-121.8989765	13			
17	45881	EW-178	LFG Collector - Standard	37.2170005	-121.8981799	13			
18	51830	EW-199	LFG Collector - Standard	37.216939	-121.8985607	13			
19	54142	EW-207	LFG Collector - Standard	37.2167973	-121.8984098	13			
20	54142	EW-207	LFG Collector - Standard	37.2167973	-121.8984098	13			
21	51831	EW-200	LFG Collector - Standard	37.2165278	-121.8982343	14		27	
22	39762	EW-161	LFG Collector - Standard	37.2163602	-121.8999993	15			conversion stockpile
23	39753	EW-152	LFG Collector - Standard	37.2170233	-121.897694	16			
24	49230	EW-180	LFG Collector - Standard	37.2164993	-121.899249	16			
25	54143	EW-208	LFG Collector - Standard	37.2166558	-121.8986408	16			
26	54144	EW-209	LFG Collector - Standard	37.2166911	-121.898995	16			
27	54143	EW-208	LFG Collector - Standard	37.2166558	-121.8986408	16			
28	54144	EW-209	LFG Collector - Standard	37.2166911	-121.898995	16			
29	49165	LC-188	LFG Collector - Standard	37.2165115	-121.8979523	16			
30	39748	EW-147	LFG Collector - Standard	37.2163282	-121.8974612	17		24	
31	54139	EW-204	LFG Collector - Standard	37.2164842	-121.8974352	17			
32	23222	EW-81	LFG Collector - Standard	37.2164003	-121.9016828	19		16	
33	39766	EW-146	LFG Collector - Standard	37.2161893	-121.8996248	20		13	stockpile construction
34	39763	EW-162	LFG Collector - Standard	37.2162872	-121.9004384	20			
35	39752	EW-151	LFG Collector - Standard	37.216596	-121.8976265	21			
36	45882	EW-181	LFG Collector - Standard	37.2163757	-121.8981417	21			
37	54146	EW-211	LFG Collector - Standard	37.2164085	-121.899347	21			
38	54146	EW-211	LFG Collector - Standard	37.2164085	-121.899347	21			
39	54148	EW-213	LFG Collector - Standard	37.2157313	-121.9000587	25			stockpile construction
40	54148	EW-213	LFG Collector - Standard	37.2157313	-121.9000587	25			
41	54140	EW-205	LFG Collector - Standard	37.2159232	-121.8985607	26			
42	49166	LC-189	LFG Collector - Standard	37.2159743	-121.8981168	26			
43	60101	LC-236	LFG Collector - Standard	37.2159606	-121.8993035	26			WAS 2019 PW1A

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

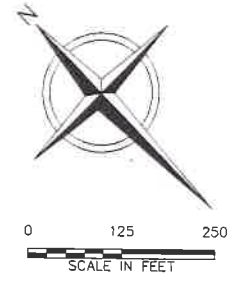
No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
44	60102	LC-237	LFG Collector - Standard	37.2155189	-121.9004241	30	9-12-27	24	WAS 2019 PW2
45	51832	EW-201	LFG Collector - Standard	37.2158282	-121.8977395	31		54	
46	54151	EW-216	LFG Collector - Standard	37.2157522	-121.8988583	31		29	
47	54151	EW-216	LFG Collector - Standard	37.2157522	-121.8988583	31		45	
48	49167	LC-190	LFG Collector - Standard	37.2158131	-121.8986935	31		21	
49	60099	LC-234	LFG Collector - Standard	37.2158817	-121.8978367	31		19	WAS 2019 PW3
50		Riser-4				32		34	
51	31994	EW-114	LFG Collector - Standard	37.2156196	-121.9010846	35		17	
52	39755	EW-154	LFG Collector - Standard	37.2155737	-121.8997444	36		58	
53	46005	EW-185	LFG Collector - Standard	37.2153905	-121.9003022	36		16	
54	49231	EW-186	LFG Collector - Standard	37.2154869	-121.8998067	36		29	
55	38190	EW-124	LFG Collector - Standard	37.2153568	-121.8985882	37		44	
56	54150	EW-215	LFG Collector - Standard	37.215772	-121.899337	37		27	
57	54150	EW-215	LFG Collector - Standard	37.215772	-121.899337	37		16	
58	49168	LC-191	LFG Collector - Standard	37.2152815	-121.8987616	37		44	
59	51834	EW-203	LFG Collector - Standard	37.2148903	-121.8973953	38		21	
60	39269	H-111	Leachate Riser or Sump (LR)	37.2152234	-121.9024543	41		15	LCRS SOUTH
61	49170	LC-193	LFG Collector - Standard	37.2152829	-121.8997004	42		62	
62	48202	EW-183	LFG Collector - Standard	37.2151482	-121.897999	43		29	
63	54152	EW-217	LFG Collector - Standard	37.2151787	-121.8990435	43		43	
64	54152	EW-217	LFG Collector - Standard	37.2151787	-121.8990435	43		26	
65	60100	LC-235	LFG Collector - Standard	37.2151227	-121.8982697	43		20	WAS 2019 PW15
66		Riser-5				44		17	
67	54153	EW-218	LFG Collector - Standard	37.2148855	-121.8989922	50		51	
68	54153	EW-218	LFG Collector - Standard	37.2148855	-121.8989922	50		46	
69	48203	EW-184	LFG Collector - Standard	37.2147669	-121.8977769	55		31	
70	46006	EW-187	LFG Collector - Standard	37.2144877	-121.89889	55		29	
71	49169	LC-192	LFG Collector - Standard	37.2147005	-121.8985396	55		44	
72	42102	EW-173	LFG Collector - Standard	37.2145096	-121.8994779	59		14	
73	38195	EW-129	LFG Collector - Standard	37.2086995	-121.8522755	60		20	
74	54154	EW-219	LFG Collector - Standard	37.2142966	-121.898854	60		31	
75	54155	EW-220	LFG Collector - Standard	37.2145088	-121.8985888	60		17	
76	54154	EW-219	LFG Collector - Standard	37.2142966	-121.898854	60		43	
77	54155	EW-220	LFG Collector - Standard	37.2145068	-121.8985888	60		26	
78	60109	LC-244	LFG Collector - Standard	37.2148416	-121.8974755	61		25	WAS 2019 PW4
79		CS-1	Condensate Sump or Drain (CS)	37.2141842	-121.8986237	62		110	
80		CS-2	Condensate Sump or Drain (CS)	37.2148416	-121.8974755	62		85	
81		CS-3	Condensate Sump or Drain (CS)	37.2152234	-121.9024543	62		146	
82	54156	EW-221	LFG Collector - Standard	37.2141303	-121.8990035	65		39	
83	54156	EW-221	LFG Collector - Standard	37.2141303	-121.8990035	65		51	
84	60106	LC-241	LFG Collector - Standard	37.214152	-121.8981348	65		25	WAS 2019 PW10
85	60108	LC-243	LFG Collector - Standard	37.2141842	-121.8986237	65		20	WAS 2019 PW8
86	54161	EW-226	LFG Collector - Standard	37.2139737	-121.8975753	66		48	

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
87	54161	EW-226	LFG Collector - Standard	37.2139737	-121.8975753	66	4-12-21	31	
88	60103	LC-238	LFG Collector - Standard	37.2142127	-121.896996	66		18	WAS 2019 PW11
89		Riser-6				67		41	
90	42101	EW-172	LFG Collector - Standard	37.21412	-121.8996291	69		19	
91	60105	LC-240	LFG Collector - Standard	37.2138042	-121.8978297	70		32	WAS 2019 PW13
92	49174	LC-197	LFG Collector - Standard	37.2138179	-121.8967375	71			
93	38197	EW-131	LFG Collector - Standard	37.2136797	-121.8993258	75		25	Active-4KWS
94	60107	LC-242	LFG Collector - Standard	37.2138288	-121.8983188	75			WAS 2019 PW14
95	38201	EW-135	LFG Collector - Standard	37.2136061	-121.897305	76		45	
96	60104	LC-239	LFG Collector - Standard	37.2134243	-121.897615	76		21	WAS 2019 PW239
97	54159	EW-224	LFG Collector - Standard	37.2132002	-121.8974548	81			Active-4KWS
98	54163	EW-228	LFG Collector - Standard	37.2132484	-121.8969069	81			
99	54159	EW-224	LFG Collector - Standard	37.2132002	-121.8974548	81			
100	54158	EW-223	LFG Collector - Standard	37.2129712	-121.8977091	84			Active-4KWS
101	54158	EW-223	LFG Collector - Standard	37.2129712	-121.8977091	84			
102	54163	EW-228	LFG Collector - Standard	37.2132484	-121.8969069	85			
103	54157	EW-222	LFG Collector - Standard	37.2127377	-121.8981113	88			
104	54165	EW-230	LFG Collector - Standard	37.2126277	-121.8980338	88			
105	54157	EW-222	LFG Collector - Standard	37.2127377	-121.8981113	88			
106	54165	EW-230	LFG Collector - Standard	37.2126277	-121.8980338	88			
107	38200	EW-134	LFG Collector - Standard	37.2129335	-121.8970899	89			
108	54162	EW-227	LFG Collector - Standard	37.2129485	-121.8961233	89			
109	54162	EW-227	LFG Collector - Standard	37.2129485	-121.8961233	89			
110	23240	EW-112	LFG Collector - Standard	37.2127553	-121.8949208	90		11	
111	54160	EW-225	LFG Collector - Standard	37.2126679	-121.8956942	90		14	
112	54160	EW-225	LFG Collector - Standard	37.2126679	-121.8956942	90		9	
113	23214	EW-65	LFG Collector - Standard	37.2123487	-121.896153	94		51	
114	23215	EW-66	LFG Collector - Standard	37.2119331	-121.8960039	98		39	
115	23211	EW-62	LFG Collector - Standard	37.2119254	-121.8968871	100		27	
116	38208	EW-142	LFG Collector - Standard	37.2118093	-121.8963646	102		21	
117	38204	EW-138	LFG Collector - Standard	37.2118108	-121.8959464	103		16	



- LEGEND**
- PROPERTY BOUNDARY
 - APPROXIMATE WASTE FOOTPRINT
 - EXISTING 10' CONTOUR
 - EXISTING LFG EXTRACTION WELL
 - EXISTING REMOTE WELLHEAD
 - EXISTING PROBE
 - EXISTING HORIZONTAL COLLECTOR WELLHEAD
 - EXISTING LOCAL CONTROL WELL
 - SEM GRID BLOCK



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
 2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
 3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
 4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
 5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
 6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
 7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

Instandanons 9-12-22

- GRIDS MONITORED
- Active trash
- No waste impact
- Steep slopes
- Dirt stockpile - construction



REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY

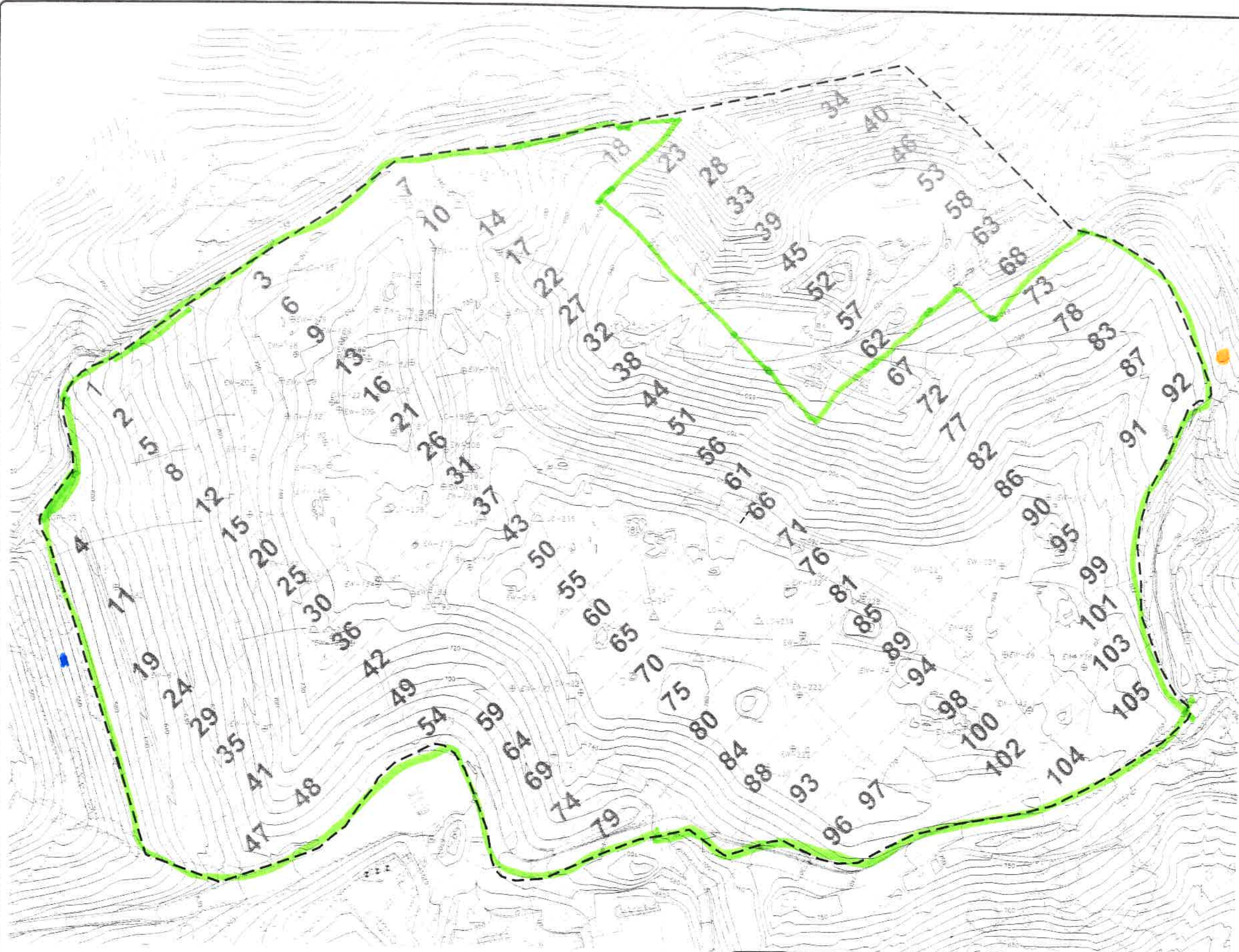


GUADALUPE RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SHEET NO.
3
PROJECT NO.
200126

SEM GRID MAP

FINAL AS-BUILT



LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE WASTE FOOTPRINT
- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING REMOTE WELLHEAD
- EXISTING PROBE
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING LOCAL CONTROL WELL

105 SEM GRID BLOCK

0 125 250
SCALE IN FEET

- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURien, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
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 7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

3RD QUARTER 2022
 NSPS PERIMETER PATH
 DOWNWIND
 UPWIND

Project: GUADALUPE RECYCLING AND DISPOSAL FACILITY SAN JOSE, CA
 Date: 1/2/2022
 Scale: 1" = 100'
 Author: [unreadable]
 Version: 1.0



REV	DATE	DESCRIPTION	CHK BY	DES BY	APP BY
1	1/2/2022	ISSUE	AMN	AMN	AMN



GUADALUPE RECYCLING AND DISPOSAL FACILITY
 SAN JOSE, CALIFORNIA
 2020 GCCS IMPROVEMENTS

SHEET NO.
3

SEM GRID MAP

FINAL AS-BUILT

Attachment B

Integrated Surface Emission Monitoring Event Records

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

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

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

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE DWIGHT ANDERSON
NICK BANKS JOSE RIZO
CALVIN ORTIZ Cal. Gas Exp. Date: 7-10-24

Date: 9-13-22 Instrument Used: FVA1000 Grid Spacing: 25'

Temperature: 65 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LW	0525	0550	5.10	3	3	10	
2	NB	0525	0550	4.66	3	3	10	
3	CO	0525	0550	5.03	3	3	10	
4	DA	0525	0550	4.21	3	3	10	
5	JN	0525	0550	5.16	3	3	10	
8	LW	0550	0615	5.41	3	5	10	
11	NB	0550	0615	3.77	3	5	10	
19	DA	0550	0615	3.21	3	5	10	
24	CO	0550	0615	3.76	3	5	10	
29	JN	0550	0615	4.03	3	5	10	
31	LW	0615	0640	6.27	4	6	10	
35	NB	0615	0640	5.41	4	6	10	
36	CO	0615	0640	5.22	4	6	10	
37	DA	0615	0640	4.98	4	6	10	
41	JN	0615	0640	4.06	4	6	10	
42	LW	0640	0705	5.40	4	6	10	
43	NB	0640	0705	6.21	4	6	10	
47	DA	0640	0705	5.02	4	6	10	
48	CO	0640	0705	4.66	4	6	10	
49	JN	0640	0705	7.11	4	6	10	
50	LW	0705	0730	5.54	3	4	14	
54	NB	0705	0730	4.28	3	4	14	
55	CO	0705	0730	5.31	3	4	14	
59	DA	0705	0730	5.18	3	4	14	
60	JN	0705	0730	4.62	3	4	14	
61	LW	0730	0755	5.08	3	3	14	
64	NB	0730	0755	6.24	3	3	14	
65	CO	0730	0755	5.92	3	3	14	
66	DA	0730	0755	6.11	3	3	14	
67	JN	0730	0755	5.74	3	3	14	

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WADSWORTH DWIGHT ANDERSON
NICK BEAKS JOSH RIZZO
CALVIN PORTER Cal. Gas Exp. Date: 7-10-24

Date: 9-13-22 Instrument Used: FVA1000 Grid Spacing: 25'

Temperature: 69 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
69	LW	0755	0820	5.50	3	5	14	
70	NB	0755	0820	7.24	3	5	14	
71	CO	0755	0820	5.36	3	5	14	
72	DA	0755	0820	6.03	3	5	14	
73	JN	0755	0820	4.91	3	5	14	
74	LW	0820	0845	7.15	3	4	14	
76	NB	0820	0845	6.84	3	4	14	
77	CO	0820	0845	5.14	3	4	14	
78	DA	0820	0845	4.07	3	4	14	
79	JN	0820	0845	6.52	3	4	14	
82	LW	0845	0910	4.25	3	4	14	
83	NB	0845	0910	3.61	3	4	14	
86	CO	0845	0910	4.12	3	4	14	
87	DA	0845	0910	4.71	3	4	14	
90	JN	0845	0910	5.15	3	4	14	
91	LW	0910	0935	4.32	2	3	16	
92	NB	0910	0935	4.16	2	3	16	
94	CO	0910	0935	6.50	2	3	16	
95	DA	0910	0935	4.34	2	3	16	
98	JN	0910	0935	5.97	2	3	16	
99	LW	0935	1000	4.20	1	2	16	
100	NB	0935	1000	5.65	1	2	16	
101	DA	0935	1000	5.27	1	2	16	
102	CO	0935	1000	4.80	1	2	16	
103	JN	0935	1000	4.11	1	2	16	
104	LW	1000	1025	4.66	1	3	16	
105	NB	1000	1025	3.70	1	3	16	

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEISHWADE _____

 _____ Cal. Gas Exp. Date: _____

Date: 9-13-22 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	
75								Active - trash
80								
81								
84								
85								
88								
89								
93								
96								
97								
6								Dirt storage pile construction
7								
9								
10								
12								
13								
15								
16								
18								
20								
21								steep slopes
25								
26								
30								
14								
17								
22								
27								
32								
38								

Attach Calibration Sheet
 Attach site map showing grid ID

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE _____

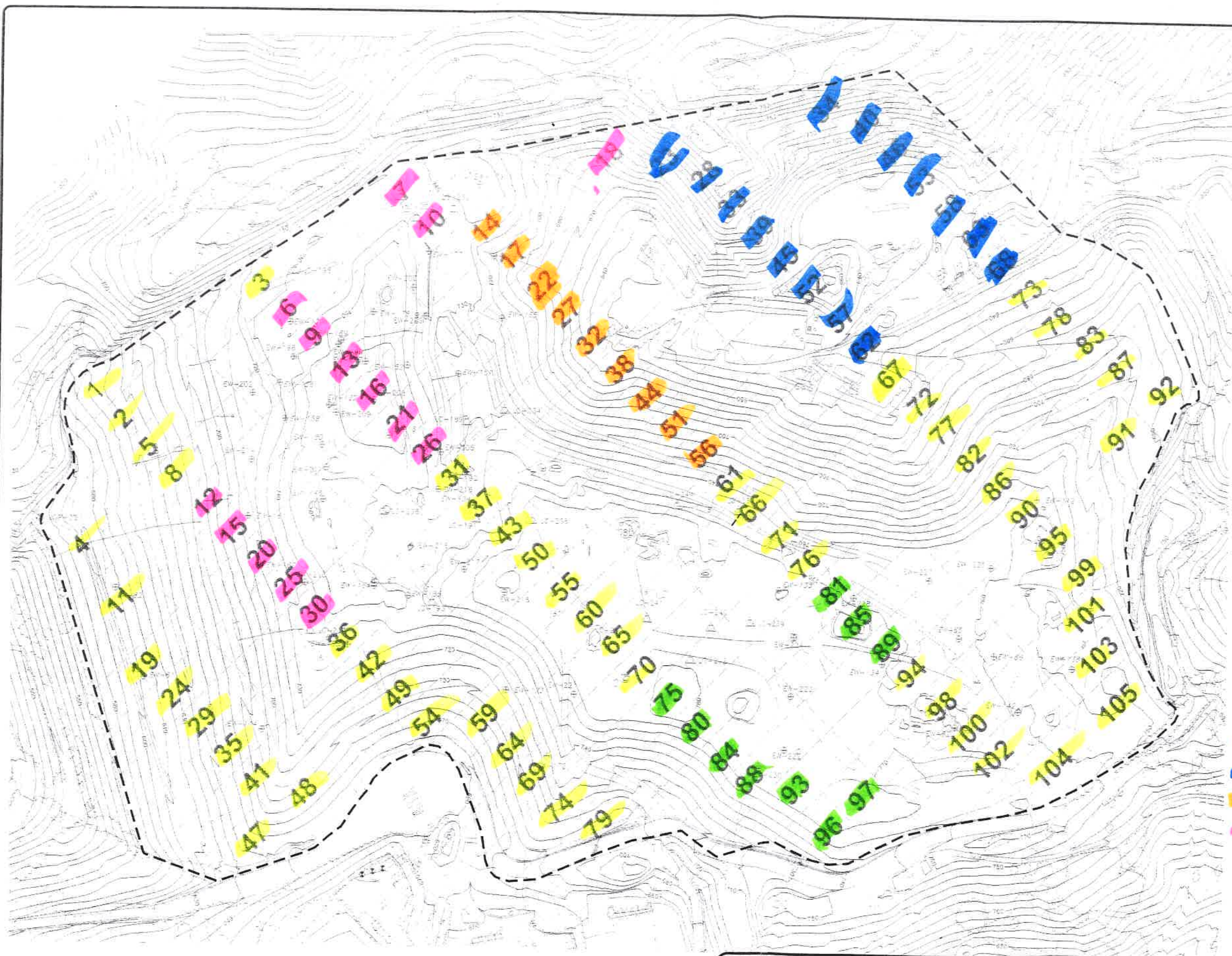
 _____ Cal. Gas Exp. Date: _____

Date: 9-13-22 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	
44								
51								↓
56								
23								now a sample
28								
33								
34								
39								
40								
45								
46								
52								
53								
57								
58								
62								
63								
68								↓

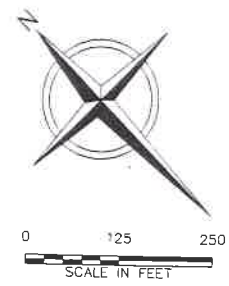
Attach Calibration Sheet
 Attach site map showing grid ID



LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE WASTE FOOTPRINT
- EXISTING 10 CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING REMOTE WELLHEAD
- EXISTING PROBE
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING LOCAL CONTROL WELL
- SEM GRID BLOCK

105



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
 2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
 3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
 4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
 5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
 6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
 7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

INTEGRATED 9-13-22

- GRIDS MONITORED
- ACTIVE TANKS
- NON WASTE IMPILE
- STEEP SLOPES
- DIRT STOCKPILE - CONSTRUCTION



REV.	DATE	DESCRIPTION	CHK BY	DES BY	APP BY
1	1/12/2020				



FINAL AS-BUILT

GUADALUPE RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO.
3

PROJECT NO.
200126

Attachment C

Component Leak Monitoring Event Records

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

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		10-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station A-9	9/12/2022	ND	RES	NA	NA	NA	NA	NA
Flare Station A-14	9/12/2022	ND	RES	NA	NA	NA	NA	NA

ND= No Exceedances

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

2022 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		7-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station A-9	9/12/2022	ND	RES	NA	NA	NA	NA	NA
Flare Station A-14	9/12/2022	ND	RES	NA	NA	NA	NA	NA

ND= No Exceedances

LANDFILL NAME: 649D9/4PE
QUARTERLY LFG COMPONENT LEAK MONITORING

INSTRUMENT FID
MAKE: Thermo Envirohm
MODEL: TVA 1000
S/N: 10336246773
DATE OF SAMPLING: 9-12-20
TECHNICIAN: LESLIE WARD

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 EXCESS							

In the event that an exceedance is detected, please initiate 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
Guadalupe



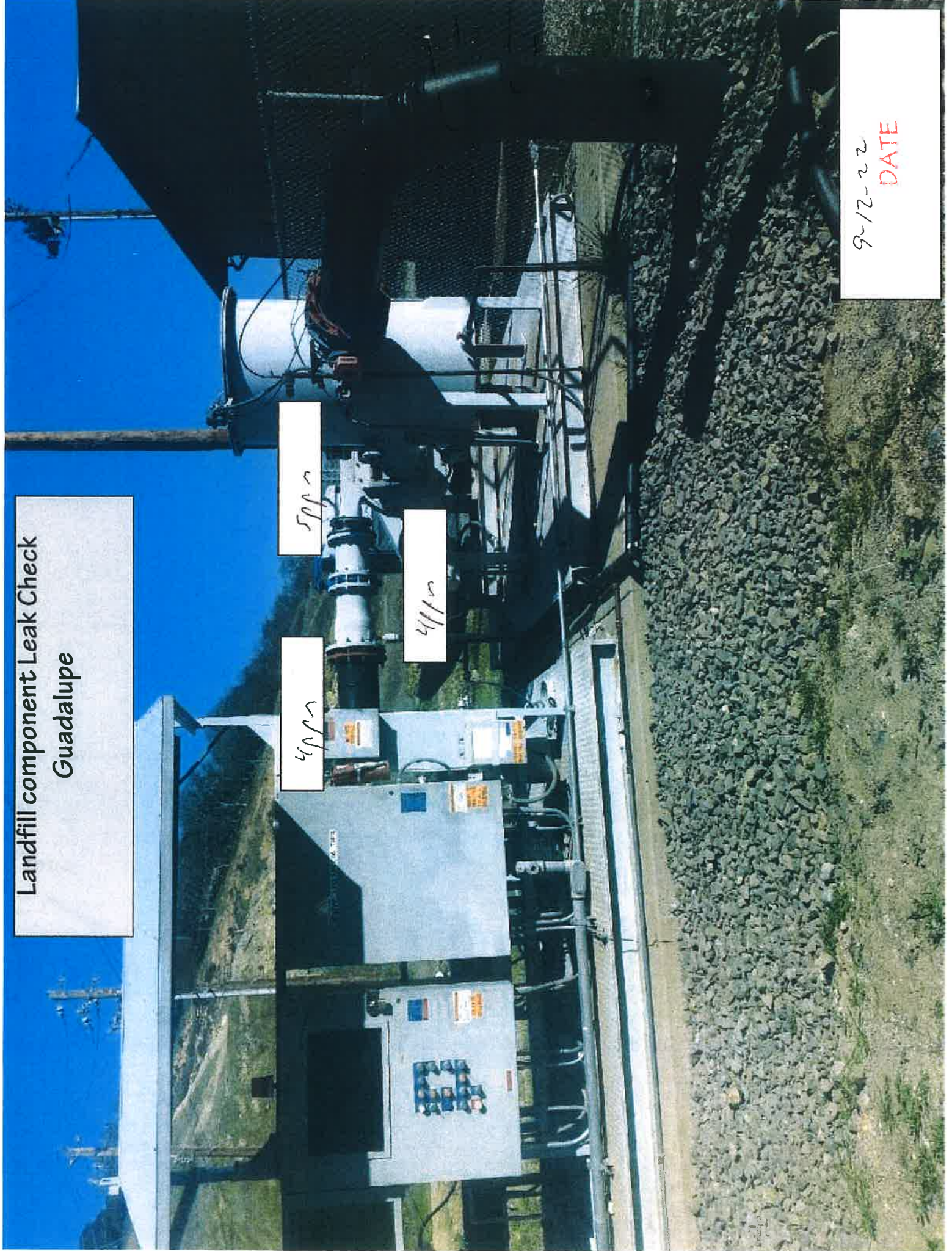
HOT

4902

3907

9-12-22
DATE

Landfill component Leak Check
Guadalupe



9-12-22
DATE

Landfill component Leak Check
Guadalupe

499 ~

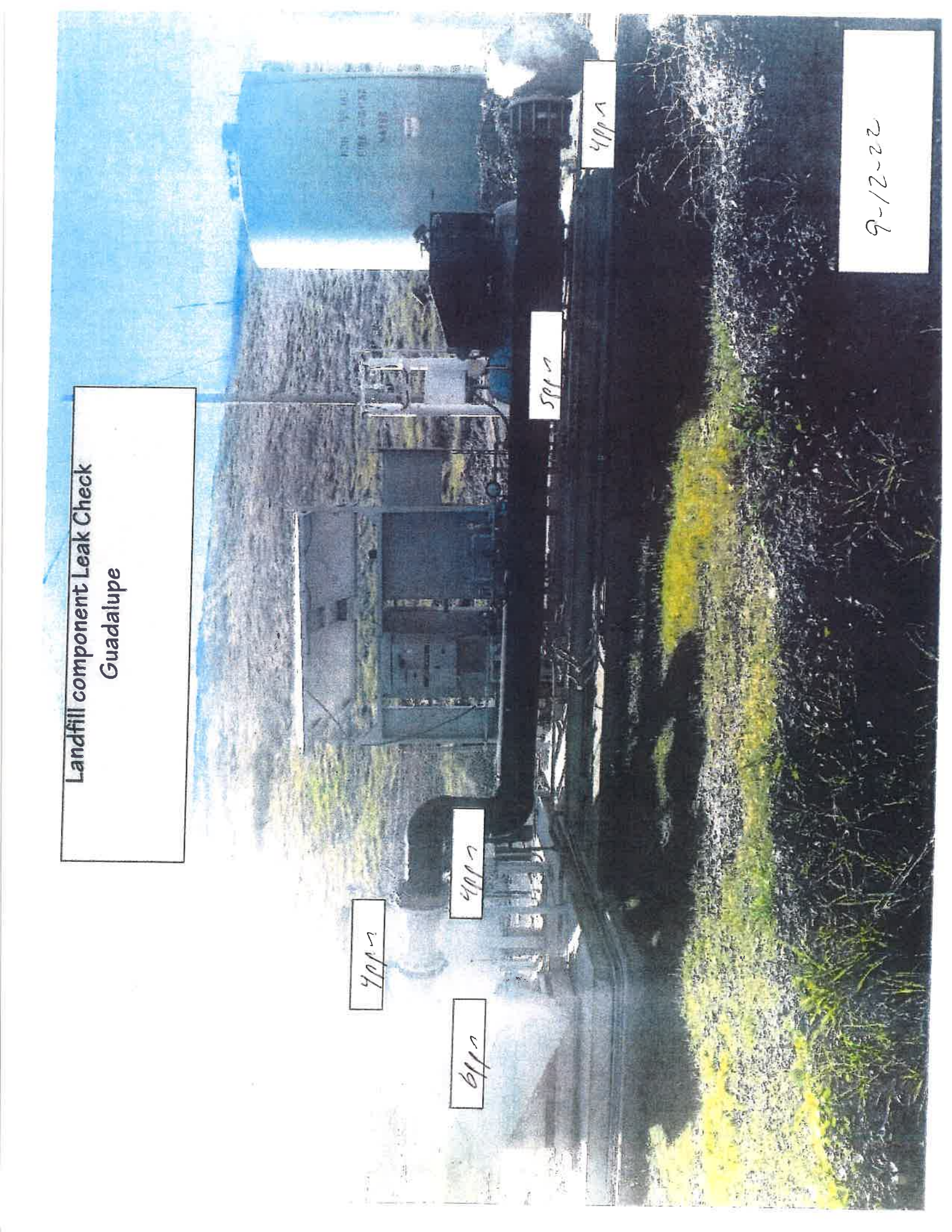
499 ~

611 ~

599 ~

499 ~

9-12-22



Landfill component Leak Check
Guadalupe New Flare

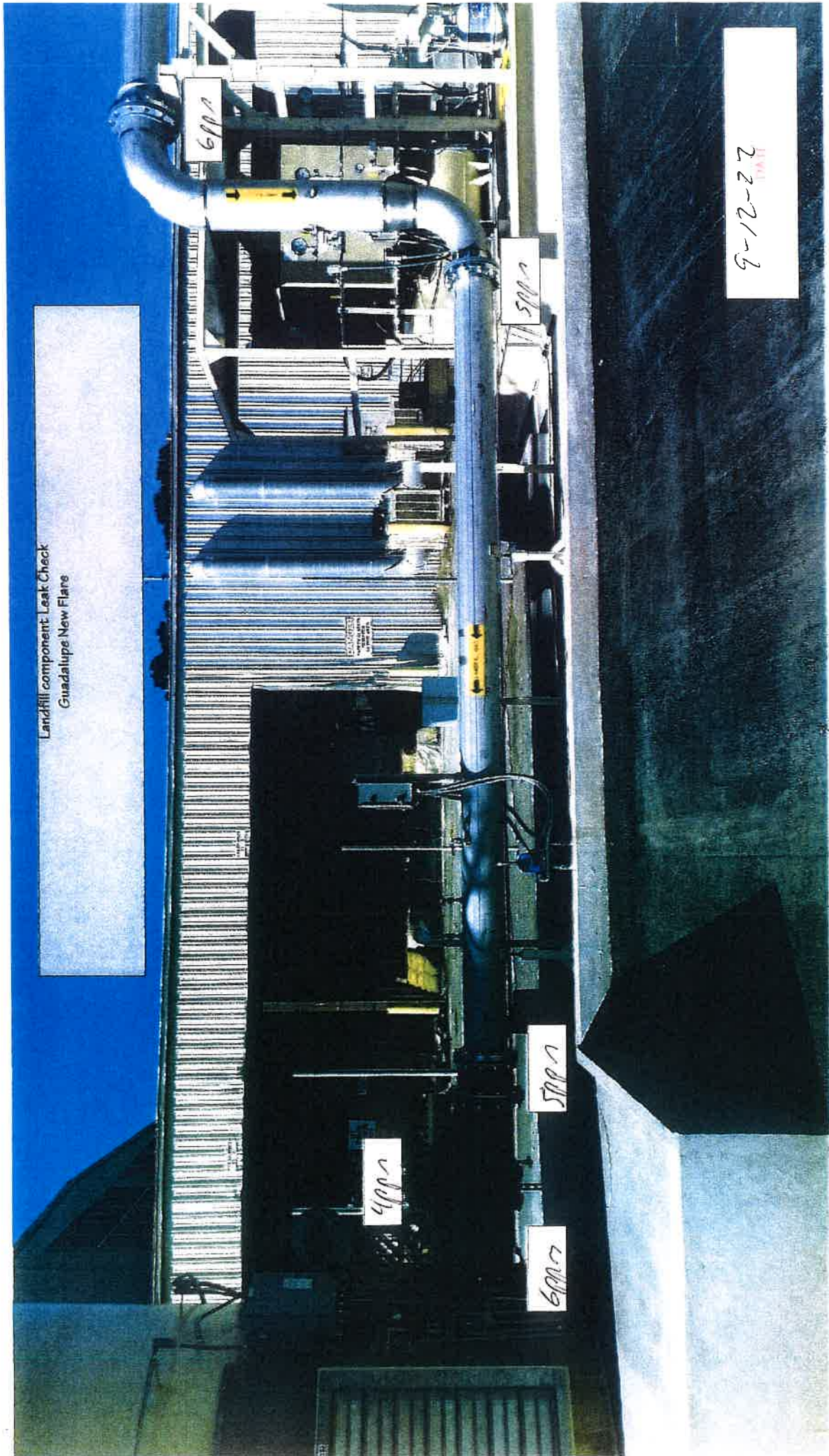


Landfill component Leak Check
Guadalupe New Flare



9-12-22
DATE

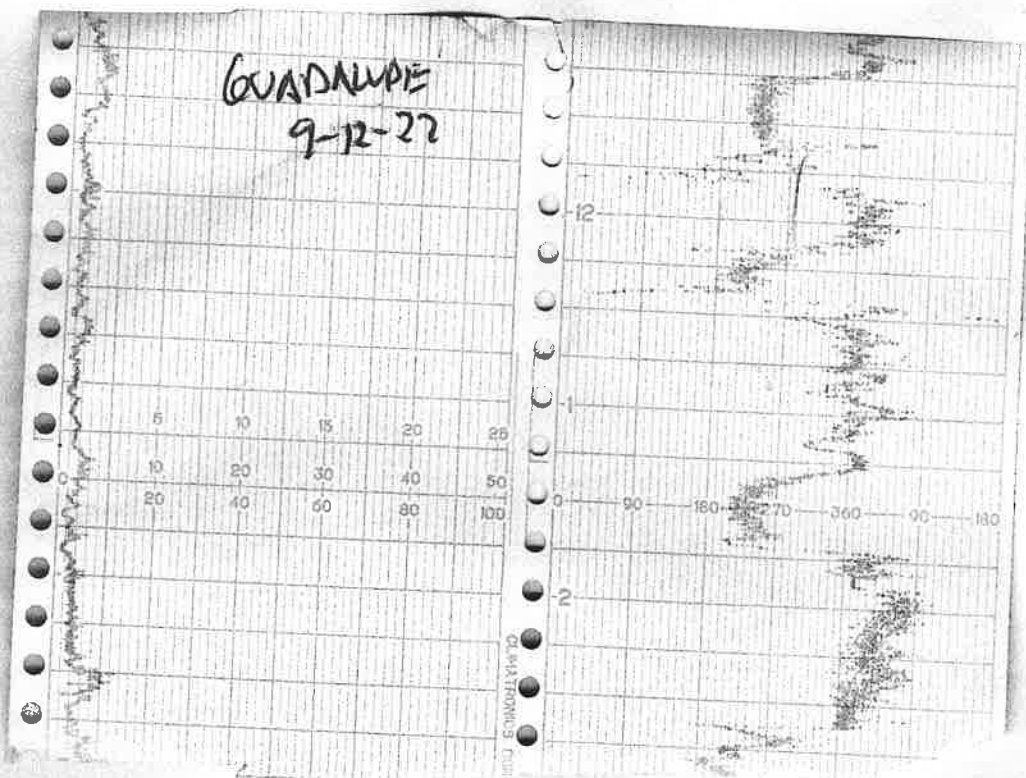
Landfill component Leak Check
Guadalupe New Flare



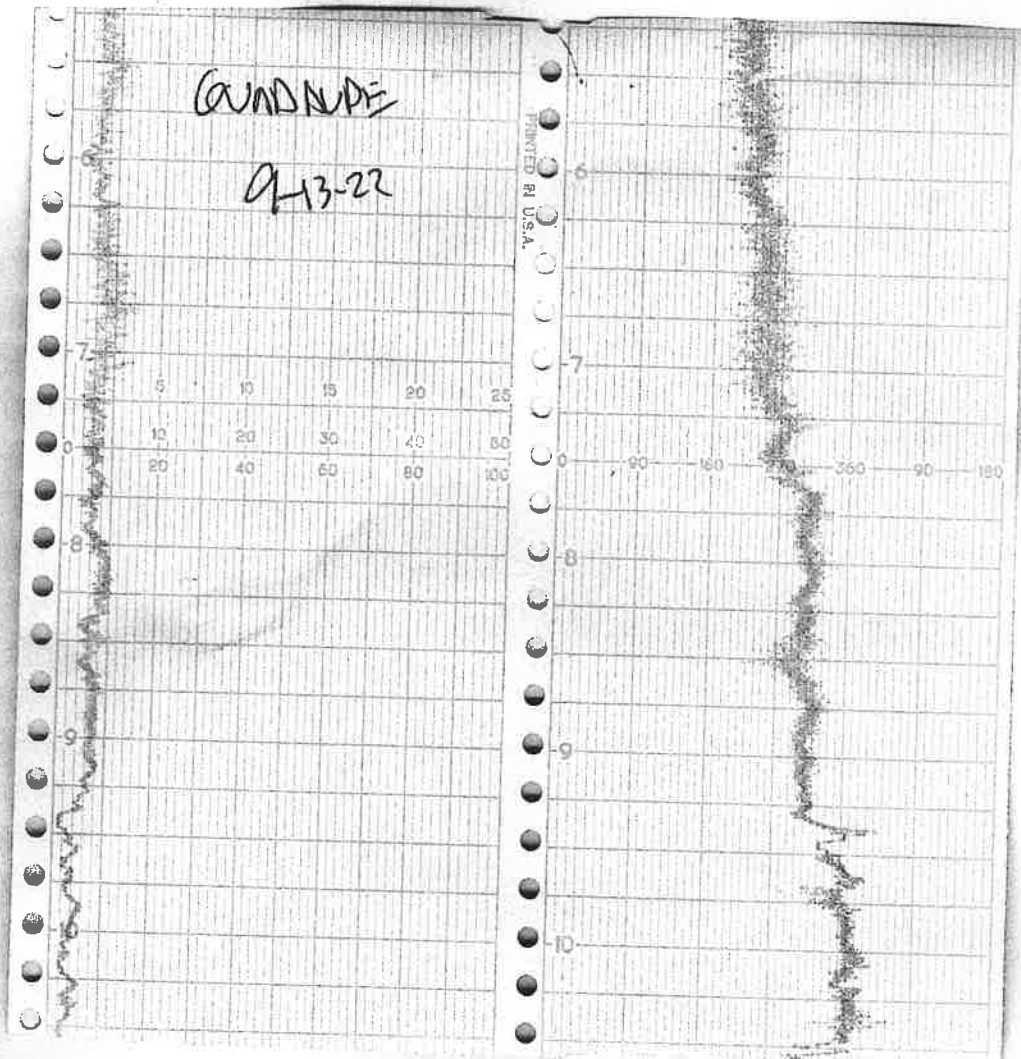
9-12-22
DASH

Attachment D
Weather Station Data

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL





16-POINT WIND DIRECTION INDEX

<u>NO</u>	<u>DIRECTION</u>	<u>DEGREES</u>		
		<u>FROM</u>	<u>CENTER</u>	<u>TO</u>
16	NORTH (N)	348.8	<u>369.0</u>	0.0
1	NORTH-NORTHEAST (NNE)	011.3	<u>022.5</u>	033.8
2	NORTHEAST (NE)	033.8	<u>045.0</u>	056.3
3	EAST-NORTHEAST (ENE)	056.3	<u>067.5</u>	078.8
4	EAST (E)	078.8	<u>090.0</u>	101.3
5	EAST-SOUTHEAST (ESE)	101.3	<u>112.5</u>	123.8
6	SOUTHEAST (SE)	123.8	<u>135.0</u>	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	<u>157.5</u>	168.8
8	SOUTH (S)	168.8	<u>180.0</u>	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	<u>202.5</u>	213.8
10	SOUTHWEST (SW)	213.8	<u>225.0</u>	236.3
11	WEST-SOUTHWEST (WSW)	236.3	<u>247.5</u>	258.8
12	WEST (W)	258.8	<u>270.0</u>	281.3
13	WEST-NORTHWEST (WNW)	281.3	<u>292.5</u>	303.8
14	NORTHWEST (NW)	303.8	<u>315.0</u>	326.3
15	NORTH-NORTHWEST (NNW)	326.3	<u>337.5</u>	348.8

Attachment E
Calibration Records

**SURFACE EMISSION MONITORING INSTRUMENT
 CALIBRATION LOG**

Site: _____

Purpose: _____

Operator: JM CM

Date: 9-10-22 Time: 0900

Model # TVA 1000

Serial # 10 1036346773

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.4</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<u>Pass</u> / Fail / NA	<u>500</u>	<u>500</u>	<u>100</u>
Clean system check (check valve chatter)	<u>Pass</u> / Fail / NA	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	<u>Pass</u> / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>7-9-22</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<u>Pass</u> / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	<u>6</u>	
		2.	<u>6</u>	
		3.	<u>6</u>	
		Average	<u>6.0</u>	
		Equal to or less than 30 seconds?	<u>Y</u>	N
		Instrument calibrated to	<u>city</u> gas.	

Comments: _____

**SURFACE EMISSION MONITORING INSTRUMENT
 CALIBRATION LOG**

Site: _____

Purpose: _____

Operator: MM

Date: 9-10-27 Time: 0915

Model # FCA 1000

Serial # 11 1036346774

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="radio"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<input checked="" type="radio"/> Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100</u>
Clean system check (check valve chatter)	<input checked="" type="radio"/> Pass / Fail / NA	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	<input checked="" type="radio"/> Pass / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>7-9-22</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<input checked="" type="radio"/> Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	<u>7</u>	
		2.	<u>7</u>	
		3.	<u>7</u>	
		Average	<u>7.0</u>	
		Equal to or less than 30 seconds?	<input checked="" type="radio"/>	N
		Instrument calibrated to	<u>CU1</u> gas.	

Comments: _____

**SURFACE EMISSION MONITORING INSTRUMENT
 CALIBRATION LOG**

Site: _____

Purpose: _____

Operator: JM

Date: 9-10-22 Time: 0930

Model # TVA 1000

Serial # 12 1036246741

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="radio"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.2</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<input checked="" type="radio"/> Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100</u>
Clean system check (check valve chatter)	<input checked="" type="radio"/> Pass / Fail / NA	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	<input checked="" type="radio"/> Pass / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>7-9-22</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<input checked="" type="radio"/> Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	<u>6</u>	
		2.	<u>6</u>	
		3.	<u>7</u>	
		Average	<u>6.3</u>	
		Equal to or less than 30 seconds?	<input checked="" type="radio"/>	N
		Instrument calibrated to	<u>CH₄</u> gas.	

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM CM

Date: 9-10-22 Time: 0945

Model # TVA 1000

Serial # #13 110 2746775

INSTRUMENT INTEGRITY CHECKLIST	INSTRUMENT CALIBRATION						
Battery test Pass / Fail Reading following ignition <u>2.2</u> ppm Leak test Pass / Fail / NA Clean system check (check valve chatter) Pass / Fail / NA H ₂ supply pressure gauge (acceptable range 9.5 - 12) Pass / Fail / NA Date of last factory calibration <u>9-9-22</u> Factory calibration record w/instrument within 3 months Pass / Fail	<div style="text-align: center;">CALIBRATION CHECK</div> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">Calibration Gas (ppm)</th> <th style="width: 33%;">Actual (ppm)</th> <th style="width: 33%;">% Accuracy</th> </tr> <tr> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>100</u></td> </tr> </table> <div style="text-align: center;">RESPONSE TIME</div> Calibration Gas, ppm <u>500</u> 90% of Calibration Gas, ppm <u>450</u> Time required to attain 90% of Cal Gas ppm 1. <u>7</u> 2. <u>7</u> 3. <u>6</u> Average <u>6.6</u> Equal to or less than 30 seconds? <input checked="" type="radio"/> Y <input type="radio"/> N Instrument calibrated to <u>celm</u> gas.	Calibration Gas (ppm)	Actual (ppm)	% Accuracy	<u>500</u>	<u>500</u>	<u>100</u>
Calibration Gas (ppm)	Actual (ppm)	% Accuracy					
<u>500</u>	<u>500</u>	<u>100</u>					

Comments: _____

**SURFACE EMISSION MONITORING INSTRUMENT
 CALIBRATION LOG**

Site: _____

Purpose: _____

Operator: M O

Date: 9-10-22 Time: 1030

Model # YVA 1000

Serial # 16 1102746716

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>1.9</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<u>Pass</u> / Fail / NA	<u>500</u>	<u>500</u>	<u>100</u>
Clean system check (check valve chatter)	<u>Pass</u> / Fail / NA	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	<u>Pass</u> / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>9-9-22</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<u>Pass</u> / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	<u>7</u>	
		2.	<u>7</u>	
		3.	<u>7</u>	
		Average	<u>7.0</u>	
		Equal to or less than 30 seconds?	<u>Y</u> N	
		Instrument calibrated to	<u>air</u> gas.	

Comments: _____



CUSTOMER: RES Unit #10

SERIAL NUMBER: 1036246773

TECHNICIAN: M. Roberts DATE: 7-9-22

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	0.69	< 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.



CUSTOMER: MAS unit # 11

SERIAL NUMBER: 1036346774

TECHNICIAN: M. [Signature] DATE: 7-9-27

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	0.52	< 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.

CUSTOMER: RES Unit #12SERIAL NUMBER: 1036246741TECHNICIAN: M. MORTIS DATE: 9-9-17**GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)**

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	503	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.46	< 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.



CUSTOMER: RES UNIT #13

SERIAL NUMBER: 1102746775

TECHNICIAN: M. MURPHY DATE: 7-9-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 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.



CUSTOMER: RES Unit #16

SERIAL NUMBER: 1102746976

TECHNICIAN: M. Morris DATE: 7-9-27

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	501	+/- 125
10000	10000	10,021	+/- 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.

Intermountain Specialty Gases

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



CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
--------------------	----------------------	----------------------------------

Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

Lot # 20-7421

Mfg. Date: 5/20/2020

Expiration Date:

Transfill Date: see cylinder

Parent Cylinder ID
Number: NY02268

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: 5/20/2020

EnviroSupply



Service INC.

Concentration (Mole%) Accuracy

- 20.9% Oxygen
- Bal. Nitrogen

Comments: 3.64% @ 70°F and 1,000 PSIG

Exp Date

7/10/2024

Lot#: 20-7421

P/N: 01-100

103 L

1391 Kaiser Avenue, Irvine, CA 92614

757-0353 or (800) 201-8150 Fax (949) 757-0363



CONTAINS OXYGEN
 Reacts with...
 Do not...
 Use if...
 Dispose of...
 DO NOT...
 Filled on...
 5124

103-01-100
Oxygen 20.9%

103 L
Lot#



INTERMOUNTAIN SPECIALTY GASES

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800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

25 ppm

Balance

Analytical Accuracy

± 5%

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

ProSupply Service INC.

Concentration (Mole%) Accuracy
+/- 5%
(CH₄) - 25 ppm
- Balance

Methane



CONTAINS GAS UNDER PRESSURE
Read label before use. Use the label at hand. Use equipment.
Do not handle until all safety protective gloves, protective clothing, eye protection, and hearing protection are in place and properly used.
Use a back flow preventer when slowly. Close valve after use. Use in well-ventilated area. Do not use in confined spaces.
Dispose of content under pressure.

Pressure 3,679 @ 70°F and 1,000 PSIG

Exp Date
7/10/2024

Lot#: 17-6074

P/N:23-0025

103 L

DO NOT REMOVE THIS LABEL
Federal law forbids transportation (49 CFR 171.15-171.16, 171.18-171.20, 171.22-171.23, 171.25-171.26, 171.28-171.29, 171.31-171.32, 171.34-171.35, 171.37-171.38, 171.40-171.41, 171.43-171.44, 171.46-171.47, 171.49-171.50, 171.52-171.53, 171.55-171.56, 171.58-171.59, 171.61-171.62, 171.64-171.65, 171.67-171.68, 171.70-171.71, 171.73-171.74, 171.76-171.77, 171.79-171.80, 171.82-171.83, 171.85-171.86, 171.88-171.89, 171.91-171.92, 171.94-171.95, 171.97-171.98, 171.100-171.101, 171.103-171.104, 171.106-171.107, 171.109-171.110, 171.112-171.113, 171.115-171.116, 171.118-171.119, 171.121-171.122, 171.124-171.125, 171.127-171.128, 171.130-171.131, 171.133-171.134, 171.136-171.137, 171.139-171.140, 171.142-171.143, 171.145-171.146, 171.148-171.149, 171.151-171.152, 171.154-171.155, 171.157-171.158, 171.160-171.161, 171.163-171.164, 171.166-171.167, 171.169-171.170, 171.172-171.173, 171.175-171.176, 171.178-171.179, 171.181-171.182, 171.184-171.185, 171.187-171.188, 171.190-171.191, 171.193-171.194, 171.196-171.197, 171.199-171.200, 171.202-171.203, 171.205-171.206, 171.208-171.209, 171.211-171.212, 171.214-171.215, 171.217-171.218, 171.220-171.221, 171.223-171.224, 171.226-171.227, 171.229-171.230, 171.232-171.233, 171.235-171.236, 171.238-171.239, 171.241-171.242, 171.244-171.245, 171.247-171.248, 171.250-171.251, 171.253-171.254, 171.256-171.257, 171.259-171.260, 171.262-171.263, 171.265-171.266, 171.268-171.269, 171.271-171.272, 171.274-171.275, 171.277-171.278, 171.280-171.281, 171.283-171.284, 171.286-171.287, 171.289-171.290, 171.292-171.293, 171.295-171.296, 171.298-171.299, 171.301-171.302, 171.304-171.305, 171.307-171.308, 171.310-171.311, 171.313-171.314, 171.316-171.317, 171.319-171.320, 171.322-171.323, 171.325-171.326, 171.328-171.329, 171.331-171.332, 171.334-171.335, 171.337-171.338, 171.340-171.341, 171.343-171.344, 171.346-171.347, 171.349-171.350, 171.352-171.353, 171.355-171.356, 171.358-171.359, 171.361-171.362, 171.364-171.365, 171.367-171.368, 171.370-171.371, 171.373-171.374, 171.376-171.377, 171.379-171.380, 171.382-171.383, 171.385-171.386, 171.388-171.389, 171.391-171.392, 171.394-171.395, 171.397-171.398, 171.400-171.401, 171.403-171.404, 171.406-171.407, 171.409-171.410, 171.412-171.413, 171.415-171.416, 171.418-171.419, 171.421-171.422, 171.424-171.425, 171.427-171.428, 171.430-171.431, 171.433-171.434, 171.436-171.437, 171.439-171.440, 171.442-171.443, 171.445-171.446, 171.448-171.449, 171.451-171.452, 171.454-171.455, 171.457-171.458, 171.460-171.461, 171.463-171.464, 171.466-171.467, 171.469-171.470, 171.472-171.473, 171.475-171.476, 171.478-171.479, 171.481-171.482, 171.484-171.485, 171.487-171.488, 171.490-171.491, 171.493-171.494, 171.496-171.497, 171.499-171.500, 171.502-171.503, 171.505-171.506, 171.508-171.509, 171.511-171.512, 171.514-171.515, 171.517-171.518, 171.520-171.521, 171.523-171.524, 171.526-171.527, 171.529-171.530, 171.532-171.533, 171.535-171.536, 171.538-171.539, 171.541-171.542, 171.544-171.545, 171.547-171.548, 171.550-171.551, 171.553-171.554, 171.556-171.557, 171.559-171.560, 171.562-171.563, 171.565-171.566, 171.568-171.569, 171.571-171.572, 171.574-171.575, 171.577-171.578, 171.580-171.581, 171.583-171.584, 171.586-171.587, 171.589-171.590, 171.592-171.593, 171.595-171.596, 171.598-171.599, 171.601-171.602, 171.604-171.605, 171.607-171.608, 171.610-171.611, 171.612-171.613, 171.615-171.616, 171.618-171.619, 171.621-171.622, 171.624-171.625, 171.627-171.628, 171.630-171.631, 171.633-171.634, 171.636-171.637, 171.639-171.640, 171.642-171.643, 171.645-171.646, 171.648-171.649, 171.651-171.652, 171.654-171.655, 171.657-171.658, 171.660-171.661, 171.663-171.664, 171.666-171.667, 171.669-171.670, 171.672-171.673, 171.675-171.676, 171.678-171.679, 171.681-171.682, 171.684-171.685, 171.687-171.688, 171.690-171.691, 171.693-171.694, 171.696-171.697, 171.699-171.700, 171.702-171.703, 171.705-171.706, 171.708-171.709, 171.711-171.712, 171.714-171.715, 171.717-171.718, 171.720-171.721, 171.723-171.724, 171.726-171.727, 171.729-171.730, 171.732-171.733, 171.735-171.736, 171.738-171.739, 171.741-171.742, 171.744-171.745, 171.747-171.748, 171.750-171.751, 171.753-171.754, 171.756-171.757, 171.759-171.760, 171.762-171.763, 171.765-171.766, 171.768-171.769, 171.771-171.772, 171.774-171.775, 171.777-171.778, 171.780-171.781, 171.783-171.784, 171.786-171.787, 171.789-171.790, 171.792-171.793, 171.795-171.796, 171.798-171.799, 171.801-171.802, 171.804-171.805, 171.807-171.808, 171.810-171.811, 171.812-171.813, 171.815-171.816, 171.818-171.819, 171.821-171.822, 171.824-171.825, 171.827-171.828, 171.830-171.831, 171.833-171.834, 171.836-171.837, 171.839-171.840, 171.842-171.843, 171.845-171.846, 171.848-171.849, 171.851-171.852, 171.854-171.855, 171.857-171.858, 171.860-171.861, 171.863-171.864, 171.866-171.867, 171.869-171.870, 171.872-171.873, 171.875-171.876, 171.878-171.879, 171.881-171.882, 171.884-171.885, 171.887-171.888, 171.890-171.891, 171.893-171.894, 171.896-171.897, 171.899-171.900, 171.902-171.903, 171.905-171.906, 171.908-171.909, 171.911-171.912, 171.914-171.915, 171.917-171.918, 171.920-171.921, 171.923-171.924, 171.926-171.927, 171.929-171.930, 171.932-171.933, 171.935-171.936, 171.938-171.939, 171.941-171.942, 171.944-171.945, 171.947-171.948, 171.950-171.951, 171.953-171.954, 171.956-171.957, 171.959-171.960, 171.962-171.963, 171.965-171.966, 171.968-171.969, 171.971-171.972, 171.974-171.975, 171.977-171.978, 171.980-171.981, 171.983-171.984, 171.986-171.987, 171.989-171.990, 171.992-171.993, 171.995-171.996, 171.998-171.999

Kaiser Avenue, Irvine, CA 92614
(949) 757-0363 or (800) 201-8150 Fax (949) 757-0363

103-23-0025
Methane 25 ppm/
Oxygen 20.9%/ Nitrogen

103 L

Lot #
17-6074



2 of 2



INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	25 ppm	± 5%
Air	Balance	

Lot #	17-6074
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Mfg. Date: 10/16/2017

Parent Cylinder ID 17161

Number:

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

MicroSupply Service INC.

Concentration (Mole%) Accuracy
Methane (CH₄) - 25 ppm
- Balance +/- 5%

Methane



CONTAINS Gas
Read label before use
label at hand. Use
Do not handle and
protective gloves
Use a back flow
slowly. Close valve
sunlight when not
use
Dispose of contents
DO NOT REWORK
Federal law limits
5124). Federal

Contents: 3.6ft³ @ 70°F and 1,000 PSIG

Exp Date
4/21/2022

Lot#: 17-6074

P/N:23-0025

103 L

1 Kaiser Avenue, Irvine, CA 92614
757-0353 or (800) 201-8150 Fax (949) 757-0363

103-23-0025
Methane 25 ppm/
Nitrogen 20.9% Nitrogen

103 L

Lot #
17-6074



DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104

Intermountain Specialty Gases

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



"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
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 TWC001763
Number:

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.

Concentration (Mole%) Accuracy
500 ppm
Balance +/- 2%

70°F and 1,000 PSIG

Exp Date

7/10/2024

Lot#: 20-7497

P/N:23-0500

103 L

Avenue, Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0363

Methane (0.500)



WAR

CONTAINS GAS UNDER PRESSURE

Read label before use. Keep out of reach of children. Label at hand. Use equipment with proper safety features.

Do not handle until all safety precautions are met. Wear protective gloves, protective clothing.

Use a back flow preventive device on the line. Open slowly. Close valve after each use and store in a cool, dry place. Do not expose to direct sunlight when ambient temperature is above 50°F.

Dispose of content and/or container in accordance with applicable regulations.

DO NOT REMOVE THIS PRODUCT LABEL

Federal law forbids transportation in motor vehicles (49 CFR 173.301-173.302). Federal law prohibits selling to minors (16 CFR 1201.12).

103-23-0500
Methane 500 ppm/
Nitrogen 20.0%

103 L

Lot #
20-7497



COA



4 of 4



INTERMOUNTAIN SPECIALTY GASES

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CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	500 ppm	± 2%
Air	Balance	

Lot #	19-6955
--------------	----------------

Mfg. Date: 7/24/2019

Parent Cylinder ID 001763

Number:

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: 7/24/2019



Concentration (Mole%) Accuracy
500 ppm
Balance +/- 2%

70°F and 1,000 PSIG

Exp Date
11/7/2023

Lot#: 19-6955

P/N: 23-0500

103 L

Irvine, CA 92614
201-8150 Fax (949) 757-0363

Methane (CH₄)



CONTAINS GAS UNDER PRESSURE
Read label before use. See back of label at hand. Use equipment properly.
Do not handle until all safety warnings are read and understood. Wear protective gloves, protective clothing, eye protection, and hearing protection.
Use a back flow preventer and use slowly. Close valve after use. Do not use in sunlight when ambient temperature is above 120°F.
Dispose of contents and container in accordance with applicable regulations.
DO NOT REMOVE THIS PRODUCT FROM THE CARRIER.
Federal law forbids transportation of this product in a motor vehicle (49 CFR 173.301-173.302). Federal law prohibits the use of this product in a motor vehicle (49 CFR 173.301-173.302).

23-0500
500 ppm/
20.9% Nitrogen

103 L

COA



Lot #
19-6955

4 of 5

DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104

CAUTION
FEDERAL LAW FORBIDS
TRANSPORTATION IF
REFILLED-PENALTY UP
TO \$500,000 FINE AND
5 YEARS IMPRISONMENT

Intermountain Specialty Gases

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



CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
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

Waters Supply Service INC

Concentration (Mole%) Accuracy
(CH₄) - 500 ppm +/- 2%
Balance

3.6 ft³ @ 70°F and 1,000 PSIG

Exp Date
6/26/2023



103 L

1791 Kaiser Avenue, Irvine, CA 92614
757-0353 or (800) 201-8150 Fax (949) 757-0363

500 ppm/
Nitrogen

103 L

COA



Lot #
18-6641

NRC 1100/1505M-1102
NRC 76

Nor



Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

46400 Continental Drive
Chesterfield, MI 48047

Cust Number 07152

Order Number 62891146

PO Number 04548169

Lot Number 9-326-80
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 1

Date on Manufacture 12/31/2019
Expires 12/2022
Analytical Accuracy +/- 2 %

Customer Part# N/A

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

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

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

NIST Traceable Numbers 20180519 and 20180224

Approved:


David Reed
Lab Technician

Date Signed:

12/31/2019



800.962.7837
www.premiersafety.com

46400 Continental
Chesterfield, MI 48021

Components

Concentration (Mole %)

methane

500 ppm
Balance

0-135-81

accuracy +/- 2%

J1971500PA

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

MFG Date:

11/11/2020

Exp. Date:

11/2023

CALIBRATION GAS



A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 69679439
PO Number 04906817

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

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

Customer Part# N/A

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

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

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

NIST Traceable Numbers are available upon request.

Approved:

David Reed
Lab Technician

Date Signed:

6/13/2022

PREMIER SAFETY

800.962.7837
www.premiersafety.com

33596 Sterling
Sterling Heights

Components

Concentration (Mole %)

Air
Oxygen
T.H.C. (as Methane)
Nitrogen

Zero Grade
20.9 %
< 1.0 ppm
Balance

Lot: 2-154-85

Accuracy: Certified

Part: J1002

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

MFG Date: 6/13/2022

Exp. Date: 06/2025

CALIBRATION GAS





A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 69671309
PO Number 08361523

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

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

Customer Part# N/A

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

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

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

NIST Traceable Numbers are available upon request.

Approved:

David Reed
Lab Technician

Date Signed:

6/10/2022



800.962.7837
www.premiersafety.com

33596 Sterling Parkway
Sterling Heights, MI

Components

Concentration (Mole-%)

Methane
Air

500 ppm
Balance

Lot#: 2-108-80

Accuracy: +/- 2 %

Part: J1971500PA

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

MFG Date: 5/5/2022

Exp. Date: 05/2025

CALIBRATION GAS



APPENDIX I

MONTHLY SOLID WASTE PLACEMENT TOTALS

Guadalupe Recycling & Disposal Facility, San Jose, CA
Solid Waste Placement Totals
April 1, 2022 through September 30, 2022

Month	Decomposed Waste Disposed in tons	During Reporting Period
Apr-22	15,780	88,526
May-22	15,605	
Jun-22	14,671	
Jul-22	14,219	
Aug-22	13,789	
Sep-22	14,462	

APPENDIX J

WELLFIELD MONITORING LOGS

Guadalupe Recycling & Disposal Facility, San Jose, CA

Wellfield Monitoring Report -April 6, 7, 11, 12, 13, and 18, 2022

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	4/6/2022 9:08	51.0	42.3	0.0	6.7	129.8	129.2	-27.3	-27.4
GDLC0189	4/11/2022 11:09	46.9	42.0	0.0	11.1	129.0	129.5	-3.0	-10.7
GDLC0190	4/11/2022 11:20	42.5	39.8	0.0	17.7	125.1	127.3	-7.0	-19.7
GDLC0191	4/12/2022 10:10	28.4	35.4	0.0	36.2	109.0	109.2	-5.6	-5.6
GDLC0192	4/12/2022 10:22	48.9	44.6	0.0	6.5	126.8	127.3	-7.9	-13.1
GDLC0193	4/11/2022 12:53	51.0	42.0	0.0	7.0	126.8	130.3	-1.0	-5.4
GDLC0196	4/11/2022 9:58	44.8	35.9	0.0	19.3	90.0	90.1	-1.5	-1.4
GDLC0197	4/11/2022 9:32	40.3	35.3	0.0	24.4	129.6	130.6	-1.4	-2.4
GDLC0232	4/11/2022 9:52	37.6	35.2	0.0	27.2	113.5	113.5	-0.9	-0.9
GDLC0233	4/11/2022 10:05	32.1	32.8	0.0	35.1	75.7	76.7	-1.6	-1.7
GDLC0234	4/11/2022 10:42	40.7	35.7	0.0	23.6	111.4	115.7	-0.2	-0.9
GDLC0235	4/12/2022 10:02	48.8	43.7	0.0	7.5	124.3	124.4	-29.9	-29.9
GDLC0236	4/11/2022 13:17	37.5	38.5	0.0	24.0	120.5	123.5	-1.2	-1.9
GDLC0237	4/11/2022 13:52	45.2	42.6	0.0	12.2	127.2	127.3	-6.3	-8.0
GDLC0238	4/11/2022 10:58	35.9	37.1	0.0	27.0	109.0	109.1	-0.1	-0.1
GDLC0239	4/13/2022 9:45	24.3	28.2	0.0	47.5	96.8	96.8	-0.4	-0.4
GDLC0240	4/13/2022 9:32	45.1	36.8	0.0	18.1	119.0	118.9	-4.0	-6.1
GDLC0241	4/12/2022 9:48	54.1	43.9	0.0	2.0	126.1	126.0	-4.0	-5.0
GDLC0242	4/6/2022 10:35	57.3	42.7	0.0	0.0	82.7	82.9	-40.8	-40.9
GDLC0243	4/12/2022 9:42	38.8	39.5	0.0	21.7	115.7	113.2	-3.2	-0.7
GDLC0244	4/11/2022 10:51	38.2	35.7	0.0	26.1	106.7	108.8	-0.1	-0.2
GUAD0062	4/7/2022 9:50	46.6	39.0	0.0	14.4	96.4	96.4	-5.1	-5.3
GUAD0065	4/7/2022 10:05	51.3	41.5	0.0	7.2	109.7	109.6	-37.5	-37.5
GUAD0066	4/7/2022 10:12	41.1	33.9	0.0	25.0	106.4	107.2	-4.6	-8.3
GUAD0081	4/12/2022 11:16	57.4	41.4	0.0	1.2	98.7	98.6	-40.7	-40.6
GUAD0082	4/12/2022 11:10	49.1	34.9	0.0	16.0	100.7	100.3	-18.9	-30.7
GUAD0112	4/7/2022 10:23	34.5	32.3	0.0	33.2	122.5	122.7	-0.3	-0.3
GUAD0114	4/6/2022 10:19	54.5	44.2	0.0	1.3	72.7	79.9	-43.5	-44.0
GUAD0122	4/6/2022 8:37	57.1	42.9	0.0	0.0	130.7	130.2	-38.0	-38.9
GUAD0124	4/12/2022 10:06	55.7	44.3	0.0	0.0	120.4	121.0	-14.1	-14.1
GUAD0129	4/12/2022 9:52	59.3	40.7	0.0	0.0	101.6	101.7	-18.1	-19.8
GUAD0131	4/14/2022 9:49	58.6	41.4	0.0	0.0	110.5	111.0	-43.0	-40.6
GUAD0134	4/18/2022 10:42	59.2	40.4	0.3	0.1	81.3	82.1	-0.7	-0.6
GUAD0135	4/13/2022 9:41	54.7	41.3	0.0	4.0	128.4	128.4	-4.8	-5.3
GUAD0138	4/7/2022 10:15	25.8	26.8	0.0	47.4	94.3	94.3	-1.0	-1.0
GUAD0142	4/7/2022 10:09	46.7	38.2	0.0	15.1	104.6	104.6	-4.4	-5.0
GUAD0146	4/11/2022 13:22	55.2	43.3	0.0	1.5	130.1	130.6	-25.8	-29.2
GUAD0147	4/11/2022 9:45	46.5	38.1	0.0	15.4	112.6	115.0	-9.5	-14.7
GUAD0151	4/11/2022 10:32	55.2	39.1	0.0	5.7	130.3	130.5	-22.0	-20.5
GUAD0152	4/6/2022 9:12	56.0	43.5	0.0	0.5	127.3	127.0	-32.8	-31.9
GUAD0154	4/11/2022 13:10	62.7	37.1	0.2	0.0	84.8	89.5	-9.2	-10.2
GUAD0161	4/11/2022 13:38	54.9	41.4	0.0	3.7	128.3	130.6	-14.6	-17.0
GUAD0162	4/11/2022 13:44	55.2	43.5	0.0	1.3	129.5	129.9	-36.8	-36.7
GUAD0172	4/12/2022 9:27	60.2	39.8	0.0	0.0	106.9	109.5	-0.6	-2.4
GUAD0173	4/12/2022 9:20	56.5	39.7	0.0	3.8	115.9	120.5	-0.3	-1.0

GUAD0176	Offline for filling								
GUAD0177	4/11/2022 10:09	46.3	38.8	0.0	14.9	126.3	126.3	-33.8	-32.7
GUAD0178	4/6/2022 8:22	50.5	34.7	3.0	11.8	91.7	87.4	-39.8	-36.3
GUAD0179	4/6/2022 8:29	32.7	31.2	0.0	36.1	111.6	111.4	-0.5	-0.4
GUAD0180	4/6/2022 8:46	48.3	43.1	0.0	8.6	128.3	129.3	-34.4	-36.1
GUAD0181	4/6/2022 8:50	52.8	44.5	0.0	2.7	130.4	130.1	-35.7	-35.1
GUAD0183	4/12/2022 10:00	56.1	42.9	0.0	1.0	119.8	119.8	-30.3	-30.3
GUAD0184	4/12/2022 9:56	44.7	39.7	0.0	15.6	128.3	128.3	-36.7	-37.1
GUAD0185	4/11/2022 13:58	50.4	40.0	0.0	9.6	128.0	130.8	-3.3	-4.2
GUAD0186	4/11/2022 12:49	50.3	40.2	0.1	9.4	130.2	130.1	-33.9	-33.9
GUAD0187	4/12/2022 10:26	56.5	43.5	0.0	0.0	122.8	123.2	-26.3	-27.3
GUAD0198	4/6/2022 8:33	45.0	37.5	0.0	17.5	121.8	123.6	-2.0	-3.3
GUAD0199	4/6/2022 8:25	51.5	38.1	0.0	10.4	129.8	130.1	-13.4	-17.2
GUAD0200	4/6/2022 9:04	56.4	43.6	0.0	0.0	130.7	130.2	-27.6	-27.7
GUAD0201	4/11/2022 10:45	54.3	43.4	0.0	2.3	115.6	116.6	-28.8	-29.2
GUAD0202	4/6/2022 10:11	40.2	33.5	0.0	26.3	125.0	125.1	-2.3	-2.7
GUAD0203	4/11/2022 9:37	53.1	41.5	0.0	5.4	116.9	116.9	-28.0	-28.0
GUAD0204	4/11/2022 10:14	56.3	43.7	0.0	0.0	110.4	116.2	-29.8	-29.9
GUAD0205	4/11/2022 11:12	43.0	41.9	0.0	15.1	129.8	130.5	-0.7	-1.3
GUAD0207	4/6/2022 9:00	41.3	41.6	0.0	17.1	130.5	130.3	-0.9	-1.3
GUAD0208	4/6/2022 8:54	40.0	41.3	0.0	18.7	128.4	129.6	-0.1	-0.8
GUAD0209	4/6/2022 8:42	43.4	44.5	0.0	12.1	121.3	127.9	-0.1	-1.6
GUAD0211	4/11/2022 13:26	45.5	39.9	0.0	14.6	114.4	118.9	-0.6	-0.7
GUAD0213	4/11/2022 13:49	51.3	43.4	0.0	5.3	127.0	127.1	-22.2	-24.0
GUAD0214	4/11/2022 13:30	41.7	40.2	0.0	18.1	126.2	126.2	-8.7	-10.1
GUAD0215	4/11/2022 13:14	45.0	39.1	0.0	15.9	130.1	130.7	-1.3	-3.0
GUAD0216	4/11/2022 11:17	44.4	40.5	0.0	15.1	129.3	129.8	-0.9	-1.8
GUAD0217	4/12/2022 10:14	46.3	41.6	0.0	12.1	119.2	128.7	-0.5	-3.8
GUAD0218	4/12/2022 10:17	47.7	41.7	0.0	10.6	105.6	125.4	-0.5	-4.0
GUAD0219	4/12/2022 9:09	51.9	37.7	0.0	10.4	121.6	123.2	-2.1	-4.4
GUAD0220	4/14/2022 9:43	50.6	41.7	0.1	7.6	124.7	124.9	-23.9	-25.5
GUAD0221	4/12/2022 9:38	38.8	35.4	0.0	25.8	117.7	117.4	-2.2	-1.8
GUAD0222	4/13/2022 9:56	20.9	29.1	0.0	50.0	109.1	109.1	-0.5	-0.4
GUAD0223	4/13/2022 9:53	39.9	42.7	0.0	17.4	126.9	127.1	-1.2	-1.4
GUAD0224	4/13/2022 9:49	28.0	38.5	0.0	33.5	108.2	107.4	-0.3	-0.3
GUAD0225	4/7/2022 10:19	35.4	33.7	0.0	30.9	123.6	123.2	-2.3	-1.1
GUAD0226	4/13/2022 9:36	58.8	41.2	0.0	0.0	117.9	117.7	-0.8	-0.6
GUAD0227	4/7/2022 9:58	37.5	38.1	0.0	24.4	121.8	121.7	-3.2	-2.0
GUAD0228	4/7/2022 10:01	31.4	34.5	0.0	34.1	114.2	114.2	-0.7	-0.7
GUAD0230	4/13/2022 10:03	31.6	32.9	0.0	35.5	112.6	110.7	-1.6	-0.4
GUADH11L	4/12/2022 11:25	58.5	40.9	0.2	0.4	67.1	66.9	-2.4	-8.1
GUADH12L	4/13/2022 12:40	53.3	35.0	1.0	10.7	73.0	72.9	-2.3	-2.3

Wells 114, 123, 134, 135, 149, 151, 154, 156, 158, 161, 162, 181, 182, 185, 186, 199, 200, 209, 217 and 218 are approved to operate at a temperature HOV of 145°F.

There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

Guadalupe Recycling & Disposal Facility, San Jose, CA

Wellfield Monitoring Report -May 2, 9, and 13, 2022

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	5/9/2022 9:23	50.7	40.8	0.0	8.5	128.8	129.1	-22.3	-22.2
GDLC0189	5/13/2022 11:42	34.1	36.8	0.0	29.1	129.8	129.2	-13.4	-4.7
GDLC0190	5/13/2022 11:28	25.5	32.9	0.0	41.6	128.7	126.9	-22.0	-6.6
GDLC0191	5/2/2022 8:58	19.7	31.6	0.0	48.7	106.7	107.1	-4.9	-4.9
GDLC0192	5/2/2022 9:13	46.0	44.9	0.0	9.1	128.3	128.3	-13.2	-13.1
GDLC0193	5/13/2022 9:18	26.7	31.0	0.0	42.3	129.8	124.6	-4.7	-2.9
GDLC0196	5/9/2022 9:13	44.2	36.9	0.0	18.9	96.8	97.1	-1.5	-1.6
GDLC0197	5/9/2022 8:19	35.0	33.7	0.0	31.3	128.9	125.8	-4.6	-1.4
GDLC0232	5/9/2022 9:10	44.3	38.2	0.0	17.5	112.6	114.9	-0.8	-2.4
GDLC0233	5/9/2022 9:16	39.2	34.7	0.5	25.6	77.2	77.3	-1.6	-1.5
GDLC0234	5/9/2022 8:49	24.1	29.3	0.0	46.6	115.6	113.1	-1.6	-0.6
GDLC0235	5/2/2022 8:47	45.2	43.0	0.0	11.8	124.4	124.4	-37.6	-37.6
GDLC0236	5/13/2022 10:38	21.0	30.2	0.0	48.8	127.1	125.3	-5.1	-1.9
GDLC0237	5/13/2022 9:41	37.1	36.9	0.0	26.0	127.3	127.8	-8.8	-5.2
GDLC0238	5/9/2022 8:43	24.5	30.5	0.1	44.9	109.6	108.5	-0.2	-0.1
GDLC0239	5/2/2022 9:37	25.4	30.5	0.0	44.1	110.9	108.0	-1.4	-0.4
GDLC0240	5/2/2022 10:19	45.3	38.9	0.0	15.8	117.5	118.3	-1.3	-1.8
GDLC0241	5/2/2022 8:31	52.1	43.6	0.0	4.3	125.8	125.7	-4.8	-1.9
GDLC0242	5/2/2022 10:15	58.4	41.6	0.0	0.0	84.9	84.4	-45.0	-44.8
GDLC0243	5/2/2022 9:23	47.9	42.6	0.0	9.5	115.7	115.9	-4.5	-4.5
GDLC0244	5/9/2022 8:38	29.2	33.0	0.0	37.8	115.5	113.1	-0.8	-0.2
GUAD0062	5/2/2022 11:03	42.5	40.5	0.0	17.0	96.0	95.9	-5.3	-5.6
GUAD0065	5/2/2022 11:39	50.8	41.0	0.0	8.2	109.5	109.3	-40.7	-40.3
GUAD0066	5/2/2022 11:23	35.4	33.4	0.0	31.2	110.8	110.0	-11.9	-9.2
GUAD0081	5/13/2022 12:17	55.3	41.6	0.0	3.1	105.1	105.3	-46.2	-46.8
GUAD0082	5/13/2022 12:13	44.7	35.2	0.0	20.1	100.4	100.4	-42.6	-42.3
GUAD0112	5/2/2022 11:54	44.7	35.0	0.0	20.3	122.4	123.2	-0.2	-0.2
GUAD0114	5/13/2022 8:57	53.3	43.2	0.0	3.5	74.7	76.0	-46.4	-47.2
GUAD0122	5/12/2022 14:55	56.0	41.7	0.0	2.3	129.4	128.8	-35.3	-34.8
GUAD0124	5/2/2022 8:53	40.3	39.2	0.0	20.5	122.8	123.0	-9.7	-9.4
GUAD0129	5/2/2022 8:35	59.5	40.5	0.0	0.0	102.3	102.4	-7.1	-3.8
GUAD0131	5/2/2022 8:04	57.8	39.7	0.0	2.5	116.6	116.7	-44.4	-44.4
GUAD0134	5/2/2022 10:57	52.9	46.3	0.0	0.8	115.1	115.0	-0.2	-0.2
GUAD0135	5/2/2022 9:42	53.7	42.3	0.0	4.0	129.8	129.5	-3.9	-3.9
GUAD0138	5/2/2022 11:27	25.1	27.6	0.0	47.3	92.9	92.8	-1.4	-1.3
GUAD0142	5/2/2022 11:12	42.7	37.3	0.0	20.0	103.8	104.0	-3.9	-4.1
GUAD0146	5/13/2022 10:26	56.7	43.3	0.0	0.0	128.5	128.0	-29.9	-30.0
GUAD0147	5/9/2022 8:31	55.0	38.8	0.0	6.2	114.1	113.9	-14.6	-13.4
GUAD0151	5/9/2022 9:28	58.5	39.5	0.0	2.0	130.0	130.4	-12.0	-12.3
GUAD0152	5/12/2022 15:27	56.8	43.0	0.2	0.0	124.5	124.9	-26.6	-26.1
GUAD0154	5/13/2022 9:33	58.7	35.7	0.8	4.8	79.5	77.7	-33.3	-33.8
GUAD0161	5/13/2022 9:58	51.7	41.2	0.0	7.1	129.1	129.4	-23.3	-23.3
GUAD0162	5/13/2022 9:52	53.1	43.9	0.0	3.0	130.0	130.5	-40.8	-41.5
GUAD0172	5/2/2022 8:01	40.2	32.5	0.0	27.3	111.0	110.7	-4.7	-3.3
GUAD0173	5/2/2022 8:11	31.2	30.7	0.0	38.1	121.7	120.1	-2.0	-1.3

GUAD0176	Offline for filling								
GUAD0177	5/9/2022 9:19	51.2	39.5	0.0	9.3	127.0	127.0	-28.4	-24.6
GUAD0178	5/12/2022 15:34	54.7	41.9	0.8	2.6	103.7	104.3	-39.3	-38.8
GUAD0179	5/12/2022 14:46	24.8	27.9	0.0	47.3	110.5	110.7	-0.4	-0.4
GUAD0180	5/12/2022 15:02	48.2	42.5	0.0	9.3	129.7	129.8	-31.7	-32.4
GUAD0181	5/12/2022 15:10	54.6	45.4	0.0	0.0	130.3	130.7	-33.6	-36.2
GUAD0183	5/2/2022 8:44	56.0	44.0	0.0	0.0	123.8	123.8	-37.6	-37.5
GUAD0184	5/2/2022 8:40	44.8	39.1	0.0	16.1	127.8	127.9	-42.5	-32.7
GUAD0185	5/13/2022 9:06	48.5	39.5	0.0	12.0	129.7	128.3	-2.8	-2.8
GUAD0186	5/13/2022 9:23	39.7	40.0	0.0	20.3	128.6	128.6	-33.1	-33.4
GUAD0187	5/2/2022 9:16	55.5	44.3	0.0	0.2	123.7	123.8	-35.1	-35.1
GUAD0198	5/12/2022 14:50	43.4	36.1	0.0	20.5	124.9	124.2	-4.1	-2.9
GUAD0199	5/12/2022 14:41	46.5	37.4	0.1	16.0	129.6	129.7	-21.3	-18.8
GUAD0200	5/12/2022 15:23	57.3	42.7	0.0	0.0	129.8	129.8	-22.2	-22.2
GUAD0201	5/9/2022 8:51	48.7	39.7	0.0	11.6	116.9	117.1	-23.4	-23.0
GUAD0202	5/13/2022 8:37	44.0	34.6	0.0	21.4	122.2	123.6	-0.9	-1.4
GUAD0203	5/9/2022 8:24	52.8	42.1	0.0	5.1	118.0	118.0	-21.3	-20.5
GUAD0204	5/9/2022 9:04	55.8	44.2	0.0	0.0	113.4	113.4	-23.2	-23.0
GUAD0205	5/13/2022 11:38	26.7	34.9	0.0	38.4	130.2	127.9	-3.1	-2.0
GUAD0207	5/12/2022 15:19	29.0	34.7	0.0	36.3	130.9	130.3	-1.1	-0.3
GUAD0208	5/12/2022 15:13	24.6	33.5	0.0	41.9	127.1	126.3	-0.6	-0.4
GUAD0209	5/12/2022 14:59	24.1	33.9	0.0	42.0	129.8	129.0	-0.3	-0.2
GUAD0211	5/13/2022 10:21	25.5	33.2	0.0	41.3	123.9	123.4	-0.8	-0.7
GUAD0213	5/13/2022 9:48	45.1	42.5	0.0	12.4	130.2	129.5	-29.3	-24.8
GUAD0214	5/13/2022 10:06	38.8	38.2	0.0	23.0	126.6	125.9	-11.3	-6.3
GUAD0215	5/13/2022 11:18	26.4	33.4	0.0	40.2	130.5	129.5	-3.9	-1.7
GUAD0216	5/13/2022 11:33	24.9	31.9	0.0	43.2	129.2	129.1	-3.3	-2.0
GUAD0217	5/2/2022 9:03	26.1	34.7	0.0	39.2	127.9	127.6	-4.4	-2.8
GUAD0218	5/2/2022 9:09	25.1	32.7	0.0	42.2	128.9	128.9	-3.5	-2.6
GUAD0219	5/2/2022 8:16	36.5	35.8	0.0	27.7	122.3	121.0	-2.5	-2.3
GUAD0220	5/2/2022 9:20	48.4	42.2	0.0	9.4	125.2	125.2	-32.4	-32.4
GUAD0221	5/2/2022 8:22	34.3	34.7	0.0	31.0	117.1	117.4	-2.1	-2.0
GUAD0222	5/2/2022 9:54	29.7	31.2	0.0	39.1	111.9	110.0	-0.5	-0.3
GUAD0223	5/2/2022 9:50	39.6	41.1	0.0	19.3	127.1	126.7	-1.8	-0.8
GUAD0224	5/2/2022 9:45	29.2	42.2	0.0	28.6	109.8	109.7	-0.4	-0.4
GUAD0225	5/2/2022 11:47	50.8	36.7	0.0	12.5	116.8	121.0	-0.4	-1.0
GUAD0226	5/2/2022 10:24	57.8	42.2	0.0	0.0	118.6	118.1	-0.4	-0.4
GUAD0227	5/2/2022 12:02	46.3	36.5	0.0	17.2	112.6	117.1	-0.4	-0.6
GUAD0228	5/12/2022 8:28	34.0	30.9	0.3	34.8	105.4	103.4	-0.8	-0.6
GUAD0230	5/2/2022 10:11	50.5	38.1	0.0	11.4	109.7	112.3	-0.2	-0.9
GUADH11L	5/13/2022 12:21	57.5	40.3	0.3	1.9	78.1	77.7	-1.8	-2.1
GUADH12L	5/13/2022 12:08	52.4	31.4	1.4	14.8	92.7	92.7	-1.3	-1.5

Wells 114, 123, 134, 135, 149, 151, 154, 156, 158, 161, 162, 181, 182, 185, 186, 199, 200, 209, 217 and 218 are approved to operate at a temperature HOV of 145°F.

There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

Guadalupe Recycling & Disposal Facility, San Jose, CA

Wellfield Monitoring Report -June 1, 2, 6, 7, and 9, 2022

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	6/6/2022 13:30	43.6	38.0	1.4	17.0	129.3	128.3	-27.71	-13.17
GDLC0189	6/7/2022 7:30	42.3	36.0	1.6	20.1	135.1	132.8	-2.15	-0.87
GDLC0190	6/7/2022 7:43	35.4	32.3	2.6	29.7	127.8	129.1	-4.67	-9.77
GDLC0191	6/9/2022 7:07	19.9	30.9	0.1	49.1	115.5	116.5	-5.32	-9.62
GDLC0192	6/9/2022 7:25	43.7	41.7	0.6	14.0	128.9	129	-12.32	-10.01
GDLC0193	6/1/2022 12:27	42.4	36.7	0.0	20.9	130.7	129.4	-2.32	-0.95
GDLC0196	6/7/2022 9:01	31.9	29.9	0.1	38.1	99.5	99.2	-0.72	-0.81
GDLC0197	6/9/2022 13:58	43.5	36.2	0.0	20.3	130.4	130.4	-0.33	-0.32
GDLC0232	6/7/2022 8:57	32.5	33.8	0.2	33.5	117.4	116.8	-3.07	-1.00
GDLC0233	6/17/2022 8:07	30.8	28.0	2.3	38.9	115.3	110.1	-8.07	-3.03
GDLC0234	6/7/2022 7:48	32.0	30.9	1.2	35.9	115.8	117.4	-0.35	-0.63
GDLC0235	6/9/2022 7:18	42.0	41.0	0.9	16.1	126.1	125.3	-34.86	-28.62
GDLC0236	6/1/2022 13:49	34.7	34.4	0.0	30.9	125.5	124.7	-0.22	-0.09
GDLC0237	6/1/2022 12:46	46.8	40.8	0.0	12.4	126.6	127.8	-2.05	-2.99
GDLC0238	6/9/2022 12:49	37.8	36.0	0.0	26.2	110.9	111.3	-0.16	-0.12
GDLC0239	6/9/2022 12:21	24.2	27.5	0.1	48.2	111.3	110.5	-0.48	-0.41
GDLC0240	6/9/2022 12:17	50.1	36.7	0.2	13.0	119.8	119.8	-2.3	-2.76
GDLC0241	6/9/2022 10:23	55.4	42.6	0.2	1.8	126.0	126.1	-1.81	-2.49
GDLC0242	6/9/2022 10:40	53.6	38.3	1.2	6.9	89.2	89.1	-45.12	-45.56
GDLC0243	6/9/2022 7:43	43.8	40.3	0.3	15.6	119.5	119.5	-3.69	-4.80
GDLC0244	6/9/2022 12:53	36.5	35.1	0.0	28.4	115.4	116.1	-0.19	-0.75
GUAD0062	6/9/2022 13:06	44.1	37.0	0.1	18.8	96.9	96.9	-4.62	-4.68
GUAD0065	6/9/2022 14:49	49.7	34.5	1.5	14.3	111.6	111.8	-37.45	-36.59
GUAD0066	6/2/2022 8:05	37.7	32.6	0.0	29.7	108.0	107.8	-5.26	-4.61
GUAD0081	6/7/2022 11:14	46.3	38.6	0.7	14.4	111.6	111.5	-43.78	-43.69
GUAD0082	6/7/2022 11:07	33.7	30.7	0.7	34.9	102.7	101.7	-33.11	-11.44
GUAD0112	6/2/2022 7:40	37.3	33.5	0.0	29.2	124.1	124	-0.15	-0.18
GUAD0114	6/7/2022 10:10	50.8	43.6	0.2	5.4	101.6	102	-45.7	-45.53
GUAD0122	6/6/2022 12:44	54.0	40.5	0.2	5.3	129.4	129.2	-34.51	-33.74
GUAD0124	6/9/2022 7:03	42.2	38.7	0.2	18.9	125.2	125.1	-11.48	-11.42
GUAD0129	6/9/2022 10:27	59.3	38.2	0.1	2.4	104.1	104.1	-3.52	-5.90
GUAD0131	6/1/2022 11:50	58.0	41.3	0.0	0.7	117.4	117.4	-42.23	-39.87
GUAD0134	6/9/2022 13:02	53.6	41.7	0.0	4.7	119.0	119	-0.01	-0.02
GUAD0135	6/9/2022 12:29	51.8	39.2	0.3	8.7	129.6	129.5	-3.9	-3.90
GUAD0138	6/2/2022 7:56	25.3	27.7	0.0	47.0	93.8	93.8	-0.8	-0.79
GUAD0142	6/2/2022 8:15	45.5	37.0	0.0	17.5	104.8	104.7	-4.13	-3.91
GUAD0146	6/1/2022 13:41	54.8	41.2	0.0	4.0	128.7	129.8	-30.34	-30.63
GUAD0147	6/7/2022 8:43	37.7	30.6	3.3	28.4	116.1	95.1	-19.46	-5.69
GUAD0151	6/7/2022 9:23	56.5	37.1	0.0	6.4	130.8	130.1	-21.51	-21.51
GUAD0152	6/6/2022 13:35	53.5	40.3	0.6	5.6	125.1	126.5	-32.22	-32.02
GUAD0154	6/9/2022 13:48	52.5	39.5	0.7	7.3	130.0	130.3	-25.88	-25.53
GUAD0161	6/1/2022 13:17	51.0	40.6	0.0	8.4	129.9	130.5	-23.49	-23.48
GUAD0162	6/1/2022 13:09	52.3	43.5	0.0	4.2	130.6	129.5	-38.84	-39.25
GUAD0172	6/1/2022 11:03	57.8	38.6	0.0	3.6	111.5	111.5	-1.72	-2.13
GUAD0173	6/1/2022 11:15	56.3	40.0	0.0	3.7	120.7	122.3	-0.29	-1.10

GUAD0176	Offline for filling								
GUAD0177	6/7/2022 8:52	42.1	36.8	0.6	20.5	127.3	127.3	-38.85	-38.80
GUAD0178	6/6/2022 13:45	43.3	32.3	4.0	20.4	105.3	92.2	-40.26	-5.43
GUAD0179	6/6/2022 12:29	34.2	31.3	0.0	34.5	113.0	114.8	-0.07	-0.99
GUAD0180	6/6/2022 13:02	47.4	41.6	0.1	10.9	129.6	128.3	-31.26	-27.41
GUAD0181	6/6/2022 13:09	50.3	42.4	0.4	6.9	127.1	124.9	-37.19	-36.45
GUAD0183	6/9/2022 7:12	53.4	40.9	0.9	4.8	125.7	125.7	-35.31	-35.15
GUAD0184	6/9/2022 10:33	42.6	38.7	0.6	18.1	129.8	125.4	-24.47	-8.52
GUAD0185	6/1/2022 12:37	50.1	40.6	0.0	9.3	129.9	129.3	-2.27	-2.28
GUAD0186	6/1/2022 12:31	43.1	40.1	0.0	16.8	128.6	128.1	-38.19	-38.19
GUAD0187	6/9/2022 7:30	53.7	39.8	1.1	5.4	124.0	124	-34.64	-34.69
GUAD0198	6/6/2022 12:38	45.4	36.3	0.0	18.3	78.6	77.6	-1.87	-0.99
GUAD0199	6/6/2022 12:20	50.4	38.3	0.1	11.2	130.5	130.5	-11.59	-11.57
GUAD0200	6/6/2022 13:21	54.2	41.0	0.0	4.8	130.9	130.8	-26.78	-26.84
GUAD0201	6/7/2022 8:26	44.3	36.2	3.3	16.2	101.7	89.1	-7.15	-4.93
GUAD0201	6/7/2022 9:18	53.8	41.7	0.4	4.1	116.8	111.9	-26.63	-18.69
GUAD0202	6/7/2022 10:19	41.6	34.0	0.0	24.4	125.9	125.2	-1.78	-1.20
GUAD0203	6/2/2022 9:44	49.8	40.6	0.1	9.5	119.2	119.5	-30.02	-29.90
GUAD0204	6/7/2022 9:50	53.6	41.6	0.2	4.6	118.3	121.7	-25.39	-33.96
GUAD0205	6/7/2022 7:34	41.5	38.2	1.1	19.2	134.5	133.4	-0.53	-0.44
GUAD0207	6/6/2022 12:14	51.0	40.4	0.2	8.4	127.5	134.5	0.04	-0.32
GUAD0207	6/6/2022 15:20	46.0	36.9	0.4	16.7	130.3	128.2	-0.43	-0.19
GUAD0207	6/6/2022 15:27	45.8	39.4	0.2	14.6	128.9	128.7	-0.09	-0.09
GUAD0207	6/6/2022 15:29	41.7	37.9	0.6	19.8	129.9	130.1	-0.14	-0.14
GUAD0207	6/7/2022 7:18	44.5	37.3	0.5	17.7	127.8	118.3	-0.86	-3.79
GUAD0207	6/7/2022 7:22	43.2	33.8	1.9	21.1	130.1	126.9	-0.3	-0.27
GUAD0208	6/6/2022 13:16	41.0	39.1	0.0	19.9	130.5	129.8	-0.16	-0.10
GUAD0209	6/9/2022 13:52	41.2	36.0	0.0	22.8	130.3	130.3	-0.08	-0.06
GUAD0211	6/1/2022 13:32	34.3	35.5	0.0	30.2	116.6	116.6	-0.1	-0.11
GUAD0213	6/1/2022 13:00	48.5	42.7	0.0	8.8	130.5	130.2	-22.94	-22.92
GUAD0214	6/1/2022 13:24	45.4	39.4	0.0	15.2	127.7	127.6	-5.33	-5.99
GUAD0215	6/1/2022 13:54	42.8	38.0	0.0	19.2	129.2	129.1	-0.16	-0.12
GUAD0216	6/7/2022 7:39	39.5	34.8	1.4	24.3	136.8	136.5	-0.69	-0.63
GUAD0217	6/9/2022 6:57	42.3	38.7	0.1	18.9	131.3	132	-1.0	-1.60
GUAD0218	6/9/2022 6:52	38.5	37.9	0.1	23.5	125.7	128.9	-0.97	-2.49
GUAD0218	6/9/2022 7:34	38.6	37.8	0.0	23.6	130.6	130	-3.46	-2.53
GUAD0219	6/1/2022 11:28	55.7	38.8	0.0	5.5	118.8	124	-0.42	-1.34
GUAD0220	6/9/2022 7:39	45.9	39.6	0.8	13.7	125.9	125.9	-32.27	-32.22
GUAD0221	6/1/2022 11:42	40.6	35.2	0.0	24.2	119.3	119.4	-1.42	-1.57
GUAD0222	6/9/2022 12:39	41.9	37.4	0.0	20.7	113.7	113.7	-0.16	-0.15
GUAD0223	6/9/2022 12:42	47.2	43.7	0.0	9.1	125.3	127.3	-0.22	-0.31
GUAD0224	6/9/2022 12:32	39.6	40.3	0.0	20.1	105.4	110.7	-0.03	-0.04
GUAD0225	6/2/2022 7:50	41.1	36.5	0.0	22.4	124.0	123.2	-1.59	-0.86
GUAD0226	6/9/2022 12:25	57.7	39.0	0.1	3.2	122.1	122.1	-0.15	-0.12

GUAD0227	6/2/2022 7:30	43.8	38.8	0.0	17.4	121.4	121.6	-1.16	-1.39
GUAD0228	6/2/2022 8:30	41.6	35.8	0.0	22.6	111.0	109	-0.24	-0.24
GUAD0230	6/9/2022 8:50	43.7	35.2	0.2	20.9	113.6	113.7	-1.14	-1.73
GUADH11L	6/7/2022 11:22	39.5	27.4	2.9	30.2	83.8	83.8	-1.84	-1.70
GUADH12L	6/7/2022 14:52	60.8	27.9	1.2	10.1	109.5	110.5	-1.63	-1.58

Wells 114, 123, 134, 135, 149, 151, 154, 156, 158, 161, 162, 181, 182, 185, 186, 199, 200, 209, 217 and 218 are approved to operate at a temperature HOV of 145°F.

There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

Guadalupe Recycling & Disposal Facility, San Jose, CA

Wellfield Monitoring Report -July 6, 7, 14, 18, 19, and 26, 2022

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	7/7/2022 9:05	52.2	42	0.7	5.1	129.6	129.9	-7.62	-26.85
GDLC0189	7/14/2022 9:49	49.5	41.2	1.3	8	129.8	129	-0.96	-1.95
GDLC0190	7/7/2022 8:13	48.4	41	0.7	9.9	129.4	129.9	-8.91	-14.74
GDLC0191	7/7/2022 10:12	18.8	26.2	2.9	52.1	119.7	115	-7.09	-1.7
GDLC0192	7/7/2022 7:34	43.4	40.4	1.7	14.5	129.1	125.6	-8.77	-2.27
GDLC0193	7/6/2022 7:13	50.5	41	0.5	8	128.1	128	-0.9	-0.9
GDLC0196	7/7/2022 12:16	41.9	33.7	0.3	24.1	101.1	99.1	-2.6	-1.73
GDLC0197	7/19/2022 8:08	45.6	38.6	0	15.8	127.8	125.2	-0.72	-0.58
GDLC0232	7/7/2022 12:00	41	35.3	0.2	23.5	107.3	105.6	-1.86	-1.76
GDLC0233	7/14/2022 10:48	48.7	35.1	0.5	15.7	97.1	97.2	0.1	0.11
GDLC0233	7/18/2022 13:09	55.8	37.1	0	7.1	118	118	-3.39	-4.21
GDLC0234	7/7/2022 8:31	33.9	33.7	0.3	32.1	118	111.3	-0.92	-0.03
GDLC0235	7/8/2022 10:32	40.5	39.2	1.5	18.8	123.5	118.8	-3.1	-1.93
GDLC0236	7/6/2022 8:30	44	37.7	0.6	17.7	122	124.5	-0.23	-0.22
GDLC0237	7/6/2022 7:44	45.1	40.2	1.2	13.5	127.8	127.8	-3.37	-3.36
GDLC0238	7/8/2022 7:34	29.5	32.8	0.9	36.8	112.1	108.7	-1.88	-1.65
GDLC0239	7/5/2022 9:23	26.1	30.2	0.3	43.4	108.7	107.2	-0.38	-0.31
GDLC0240	7/5/2022 10:07	43.1	36.8	0.9	19.2	120	119.8	-4.03	-1.82
GDLC0241	7/5/2022 10:12	52.2	41.9	0.4	5.5	126.3	126.2	-2.61	-3.9
GDLC0242	7/5/2022 10:30	52.4	37.5	1.7	8.4	91.1	91.4	-39.76	-39.73
GDLC0243	7/5/2022 10:27	37.8	38	0.3	23.9	119.7	118.4	-4.28	-0.9
GDLC0244	7/8/2022 7:52	26.9	31	1.8	40.3	118.2	113.2	-2.71	-1.66
GUAD0062	7/19/2022 9:07	48.5	39.4	0	12.1	96.9	96.9	-3.22	-4.65
GUAD0065	7/19/2022 7:37	55.1	41.2	0	3.7	109.3	109.1	-39.98	-40.08
GUAD0066	7/5/2022 8:56	43	32.6	0.5	23.9	104.7	97.6	-2.64	-1.11
GUAD0081	7/18/2022 13:54	53.6	42.8	0	3.6	107	108	-41.11	-41
GUAD0082	7/8/2022 12:17	50.7	34.7	1.6	13	104.9	105	-5.48	-21.19
GUAD0082	7/14/2022 8:23	44.4	35.3	1.1	19.2	93.2	93	0.02	0.01
GUAD0082	7/18/2022 13:31	51.8	37.2	0	11	97.7	103.9	-1.08	-10.86
GUAD0112	7/8/2022 7:21	31.6	28.8	1.6	38	127.8	126.1	-2.85	-1.94
GUAD0114	7/18/2022 12:54	51.6	44.9	0	3.5	96.2	99.6	-41.8	-41.41
GUAD0122	7/7/2022 10:56	45.7	34.9	3.1	16.3	129.2	125.8	-34.23	-24.49
GUAD0124	7/19/2022 13:13	46.1	38.7	0	15.2	127.6	127.6	-9.11	-9.12
GUAD0129	7/5/2022 10:17	57.9	37.6	0.6	3.9	108	108	-7.28	-7.44
GUAD0131	7/6/2022 9:27	47.1	33.7	3.5	15.7	117.7	117.7	-33.87	-33.95
GUAD0134	7/8/2022 11:06	54.1	41.4	0.5	4	117	108.7	-0.03	-0.01
GUAD0135	7/5/2022 9:38	51.7	37.3	1.8	9.2	130	129.8	-3.46	-3.6
GUAD0138	7/5/2022 9:00	29.1	26.7	0.6	43.6	95.5	95	-0.66	-0.56
GUAD0142	7/5/2022 9:08	48.5	36.1	0.6	14.8	104.4	102	-2.49	-1.47
GUAD0146	7/6/2022 8:13	48.2	36.7	2.9	12.2	128.4	130.5	-26.41	-26.38
GUAD0147	7/7/2022 9:36	56.6	43	0	0.4	78	116.4	-0.06	-7.51
GUAD0151	7/7/2022 8:59	51.1	32.9	2.3	13.7	129.8	129.8	-18.54	-16.59
GUAD0152	7/7/2022 11:46	47.4	36.5	1.8	14.3	126.4	118.3	-31.65	-13.97
GUAD0154	7/19/2022 13:02	57.4	41.9	0	0.7	129.1	129.7	-31.7	-31.56
GUAD0161	7/8/2022 11:56	41.4	31.8	3.4	23.4	130	129.9	-21.11	-19.76

GUAD0162	7/19/2022 13:07	54.4	41.9	0	3.7	130.6	129.9	-36.3	-36.74
GUAD0172	7/8/2022 10:09	42.7	33.9	1.1	22.3	112.3	110.3	-4.2	-2.81
GUAD0173	7/8/2022 10:16	38.3	33.7	1	27	122.9	120.3	-2.84	-1.98
GUAD0176	Offline for filling								
GUAD0177	7/7/2022 11:54	43.2	34.1	1.8	20.9	127	126	-29.32	-10.48
GUAD0178	7/14/2022 11:24	45.9	35.8	2.8	15.5	105.4	105.4	-7.44	-7.4
GUAD0179	7/14/2022 11:11	28.7	27.4	1	42.9	115.5	114.6	-1.78	-0.52
GUAD0180	7/6/2022 8:05	46.4	38	2.7	12.9	127.2	127.8	-24.12	-24.15
GUAD0180	7/7/2022 11:03	48.4	39.4	1.5	10.7	129.8	92	-25.83	-9.52
GUAD0181	7/14/2022 10:27	36.6	32.3	3.2	27.9	129.8	123.6	-10.63	-10.04
GUAD0181	7/14/2022 15:03	45	37.5	1.8	15.7	126.8	129.6	-20.22	-13.65
GUAD0183	7/8/2022 11:38	49.8	37.9	1.8	10.5	81.4	83.9	-6.37	-28.69
GUAD0184	7/8/2022 11:31	48.5	40.3	1.4	9.8	129.6	128.5	-3.94	-1.99
GUAD0185	7/6/2022 7:37	52.2	40.8	0.6	6.4	128.5	128.6	-2.25	-4.02
GUAD0186	7/6/2022 8:24	44.8	39.3	1	14.9	122.1	130	-7.5	-30.75
GUAD0187	7/7/2022 7:28	52.7	39.1	1.7	6.5	124	124.1	-30.93	-30.88
GUAD0198	7/7/2022 10:48	52.8	40.2	0.2	6.8	112.8	121.7	-2.17	-4.6
GUAD0199	7/7/2022 10:41	50.8	38.1	0.8	10.3	129.5	128.8	-11.7	-9.63
GUAD0200	7/7/2022 10:26	51.7	38.6	1.5	8.2	129.8	129.8	-26.83	-26.83
GUAD0201	7/7/2022 8:42	49.9	41	1.5	7.6	118.4	123.3	-14.31	-28.66
GUAD0202	7/8/2022 8:50	43.5	33.9	1.7	20.9	124.6	120.1	-2.56	-2.14
GUAD0203	7/19/2022 12:43	54.9	41.1	0.3	3.7	120.4	120.5	-25.42	-25.49
GUAD0204	7/7/2022 9:24	50.7	40.3	1.4	7.6	122.7	124	-0.24	-7.51
GUAD0205	7/7/2022 8:21	53.6	45.1	0.3	1	129.9	128.9	-0.56	-1.98
GUAD0207	7/7/2022 10:34	50.7	42.1	0.2	7	129.8	130.5	-1.75	-2.71
GUAD0208	7/14/2022 10:08	34.3	37	0.9	27.8	129.7	128.6	-0.17	-0.23
GUAD0209	7/19/2022 8:41	45.8	44.2	0	10	114.1	130.4	-0.14	-0.47
GUAD0211	7/6/2022 7:56	42.8	39.1	0.6	17.5	121	120.4	-0.25	-0.25
GUAD0213	7/6/2022 7:51	46.1	39.1	1.9	12.9	129.7	129.3	-18.96	-18.95
GUAD0214	7/8/2022 9:09	39.1	34.8	1.9	24.2	128	124.4	-10.27	-4.69
GUAD0215	7/6/2022 9:10	50.2	41.7	0.2	7.9	126.2	129.8	-0.16	-2.28
GUAD0216	7/7/2022 8:04	48.4	41.7	0.3	9.6	130.2	129.6	-0.75	-1.4
GUAD0217	7/6/2022 8:58	42	39.6	0.6	17.8	128.4	129.7	-1.67	-1.66
GUAD0218	7/7/2022 7:52	35.9	38.1	0.3	25.7	126.5	115.1	-0.98	-0.6
GUAD0219	7/7/2022 7:12	46.9	38.4	0.7	14	123.8	112.1	-2.32	-1.22
GUAD0220	7/7/2022 7:42	42.6	36.6	2.4	18.4	126.1	109.1	-29.94	-9.01
GUAD0221	7/6/2022 9:19	36	34.9	0.3	28.8	118.7	119.8	-1.43	-2.64
GUAD0222	Offline for filling								
GUAD0223	7/5/2022 9:53	41.2	41.7	0.2	16.9	128.1	127.6	-1.5	-0.64
GUAD0224	7/5/2022 9:44	39.6	42.1	0.3	18	114.9	114.4	-0.32	-0.24
GUAD0224	7/14/2022 14:15	37.6	40.5	0.4	21.5	114	114.4	-0.03	-0.03
GUAD0225	7/5/2022 8:46	42.6	35.9	0.4	21.1	120.2	117.1	-0.21	-0.15
GUAD0226	7/19/2022 9:38	58.1	41.9	0	0	110.5	110.3	0.85	0.84
GUAD0226	7/19/2022 13:18	58.8	41.2	0	0	107.8	107.9	1.08	1.09
GUAD0226	7/19/2022 13:19	58.6	41.1	0	0.3	109.7	110.1	1.03	1.05
GUAD0226	7/26/2022 6:49	64.8	31.9	3.3	0	78.6	81.3	0.89	0.9
GUAD0226	7/26/2022 12:45	54.9	39.2	0.1	5.8	122	122.6	-2.69	-3.77
GUAD0227	7/19/2022 7:44	49.7	40.4	0	9.9	121	121.2	-1.07	-1.2
GUAD0228	7/5/2022 9:29	46.4	36.9	0.2	16.5	98.2	105.1	-0.09	-0.06

GUAD0230	7/19/2022 14:36	59.1	38.7	0	2.2	108.5	107.7	-0.34	-0.87
GUADH11L	7/14/2022 7:39	49.7	35.4	3	11.9	83.8	84.3	-2.42	-2.38
GUADH12L	7/7/2022 13:38	62.4	35.8	0.3	1.5	109.5	109.5	-1.56	-1.71

Wells 114, 123, 134, 135, 149, 151, 154, 156, 158, 161, 162, 181, 182, 185, 186, 199, 200, 209, 217 and 218 are approved to operate at a temperature HOV of 145°F.

There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

Guadalupe Recycling & Disposal Facility, San Jose, CA

Wellfield Monitoring Report -August 4, 5, 8, 9, 11, 23, and 31, 2022

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	8/9/2022 10:12	48.1	41.4	0.0	10.5	128.9	128.5	-20.54	-20.23
GDLC0189	8/9/2022 9:43	48.5	42.8	0.0	8.7	125.1	126.2	-2.11	-3.01
GDLC0190	8/9/2022 9:20	37.3	37.9	0.0	24.8	129.8	129.1	-14.01	-7.64
GDLC0191	8/11/2022 14:38	32.7	35.9	0.1	31.3	126.9	127.5	-1.61	-1.71
GDLC0192	8/5/2022 10:05	52.9	44.9	0.0	2.2	122.2	126.8	-0.55	-3.73
GDLC0193	8/5/2022 10:56	45.8	41.8	0.0	12.4	130.8	130.5	-0.49	-0.47
GDLC0196	8/9/2022 8:07	60.4	39.6	0.0	0.0	70.8	91	-0.04	-1.73
GDLC0197	8/9/2022 14:08	48.5	39.6	0.0	11.9	127.8	128.8	-0.13	-0.23
GDLC0232	8/9/2022 8:22	57.6	42.4	0.0	0.0	66.3	105.7	-0.08	-0.56
GDLC0233	8/9/2022 8:16	55.2	40.5	0.0	4.3	116.3	116.5	-3.51	-4.54
GDLC0234	8/5/2022 14:06	47.6	39.3	0.0	13.1	109.2	111.4	0.04	-0.05
GDLC0234	8/5/2022 14:13	47.6	39.2	0.0	13.2	114.8	115.5	-0.43	-0.23
GDLC0235	8/5/2022 9:58	49.0	44.3	0.0	6.7	125.2	128.1	-3.5	-14.61
GDLC0236	8/8/2022 8:58	33.3	35.9	0.0	30.8	121.1	121.6	-0.72	-0.71
GDLC0237	8/8/2022 8:31	43.6	41.5	0.0	14.9	128.7	128.2	-4.09	-2.94
GDLC0238	8/5/2022 13:35	44.9	38.3	0.0	16.8	111.6	113.2	0.24	-0.13
GDLC0238	8/5/2022 13:37	43.7	38.2	0.0	18.1	113.2	113.2	-0.29	-0.21
GDLC0239	8/5/2022 8:58	26.1	29.9	0.0	44.0	110.1	105.5	-1.31	-0.28
GDLC0240	8/5/2022 8:51	52.9	40.5	0.0	6.6	119.4	119.6	-1.36	-2.24
GDLC0241	8/5/2022 9:20	55.3	43.4	0.0	1.3	126.4	126.3	-3.7	-4.68
GDLC0242	8/5/2022 8:46	57.3	42.7	0.0	0.0	87.7	88.3	-34.89	-35.12
GDLC0243	8/5/2022 9:28	49.2	42.0	0.0	8.8	117.5	118.3	-0.59	-1.31
GDLC0244	8/5/2022 13:55	44.2	38.9	0.0	16.9	112.8	115.6	-0.17	-0.12
GUAD0062	8/5/2022 6:28	54.2	39.1	0.0	6.7	96	96.2	-3.56	-4.65
GUAD0065	8/5/2022 7:53	57.5	42.5	0.0	0.0	111.1	111.5	-30.89	-30.01
GUAD0066	8/5/2022 7:58	59.8	40.2	0.0	0.0	108.7	108.7	-15.95	-15.95
GUAD0081	8/4/2022 14:30	54.6	42.7	0.0	2.7	107.5	107.7	-0.07	-0.26
GUAD0082	8/4/2022 14:17	49.8	37.9	0.0	12.3	104.5	104.6	-13.71	-13.75
GUAD0112	8/5/2022 7:37	47.9	36.4	0.0	15.7	125.6	124.9	-0.59	-0.34
GUAD0114	8/9/2022 7:37	53.3	46.7	0.0	0.0	97.3	97.6	-33.98	-33.21
GUAD0122	8/9/2022 7:14	56.6	43.4	0.0	0.0	122.7	121.6	-2.88	-7.57
GUAD0124	8/9/2022 13:25	46.9	40.5	0.0	12.6	127.9	128	-4.75	-4.75
GUAD0129	8/5/2022 9:15	59.3	40.7	0.0	0.0	107.3	107.8	-8.6	-10.39
GUAD0131	8/4/2022 14:49	57.5	40.1	0.0	2.4	118.7	118.6	-31.22	-33.48
GUAD0134	8/5/2022 6:45	56.5	43.5	0.0	0.0	115.2	115.4	-0.03	-0.04
GUAD0134	8/5/2022 13:07	58.0	41.3	0.1	0.6	117.4	117.3	0.34	0.35
GUAD0134	8/5/2022 13:17	58.0	42.0	0.0	0.0	117.6	117.6	0.35	0.36
GUAD0134	8/11/2022 12:55	58.2	41.1	0.2	0.5	127.1	126.7	-6.05	-2.15
GUAD0135	8/5/2022 8:16	55.2	41.7	0.0	3.1	129.8	129.6	-4.22	-4.2
GUAD0138	8/5/2022 7:21	52.3	30.9	0.0	16.8	89.6	88.8	-0.4	-0.31
GUAD0142	8/5/2022 7:06	58.6	41.1	0.0	0.3	101.1	103.4	-0.83	-1.54
GUAD0146	8/8/2022 8:53	56.3	43.7	0.0	0.0	129.9	130.3	-20.06	-22.87
GUAD0147	8/9/2022 10:32	57.4	40.1	0.0	2.5	117.1	117.2	-8.56	-8.47
GUAD0151	8/9/2022 9:55	59.1	39.4	0.0	1.5	128.7	128.6	-4.3	-5.86
GUAD0152	8/11/2022 9:20	56.1	43.9	0.0	0.0	114.4	121.5	-5.76	-20.7

GUAD0154	8/11/2022 9:11	60.0	40.0	0.0	0.0	127.3	126.5	-5.18	-7.13
GUAD0161	8/11/2022 14:57	55.4	40.6	0.0	4.0	123	122.1	-10.15	-10.75
GUAD0162	8/11/2022 15:02	54.9	42.9	0.0	2.2	128.5	128.4	-25.29	-25.44
GUAD0172	8/9/2022 12:48	57.8	39.8	0.0	2.4	110.1	111.8	-0.37	-0.41
GUAD0173	8/9/2022 12:56	57.1	41.4	0.0	1.5	117.8	121.9	-0.14	-0.42
GUAD0176	8/23/2022 10:44	59.0	41.0	0.0	0.0	110.9	113	-2.95	-3.29
GUAD0177	8/9/2022 10:35	56.7	42.8	0.0	0.5	126.1	128.7	-2.91	-18.15
GUAD0178	8/8/2022 14:36	54.3	41.5	0.5	3.7	102.5	116.6	-1.1	-25.43
GUAD0178	8/8/2022 14:40	53.9	41.4	0.2	4.5	111.7	111.7	-27.71	-28.4
GUAD0179	8/9/2022 10:44	46.4	35.4	0.0	18.2	108.2	114.2	0.11	-0.13
GUAD0179	8/9/2022 10:46	38.7	31.6	0.0	29.7	114.9	114.9	-0.39	-0.33
GUAD0180	8/8/2022 14:13	55.6	42.1	0.0	2.3	88	114	2.85	-11.28
GUAD0180	8/8/2022 14:16	55.5	42.8	0.0	1.7	117.1	117.4	-17.34	-17.32
GUAD0181	8/9/2022 6:55	56.6	43.4	0.0	0.0	123.2	124.4	6.48	-1.77
GUAD0181	8/9/2022 6:58	55.3	44.7	0.0	0.0	120.6	120	-2.32	-2.32
GUAD0183	8/5/2022 9:53	55.8	42.2	0.0	2.0	80.9	83.2	-28.68	-32.21
GUAD0184	8/5/2022 9:44	54.5	42.4	0.0	3.1	128.4	130.5	-2.9	-13.3
GUAD0185	8/8/2022 8:21	46.2	37.9	0.0	15.9	129.8	128	-4.33	-2.23
GUAD0186	8/8/2022 8:05	46.7	39.0	0.2	14.1	129.7	129.3	-27.2	-27.39
GUAD0187	8/5/2022 10:10	56.4	43.6	0.0	0.0	124.6	124.7	-29.32	-29.3
GUAD0198	8/8/2022 14:24	55.6	39.8	0.0	4.6	120.9	121	-2.87	-2.8
GUAD0199	8/8/2022 14:30	55.0	40.4	0.0	4.6	130	128.6	-7.97	-9.78
GUAD0200	8/8/2022 14:46	55.5	40.3	0.5	3.7	129.9	127.8	-18.41	-18.31
GUAD0201	8/5/2022 14:19	54.7	42.8	0.0	2.5	125.4	125.5	-19.66	-19.7
GUAD0202	8/9/2022 7:46	58.0	42.0	0.0	0.0	94.5	118.2	0.24	-0.29
GUAD0202	8/9/2022 7:47	58.8	41.2	0.0	0.0	119.4	119.4	-0.45	-0.41
GUAD0203	8/9/2022 14:17	52.5	42.2	0.0	5.3	120.4	120.7	-19.65	-19.85
GUAD0204	8/9/2022 10:21	54.4	43.6	0.0	2.0	122.8	122.8	-21.85	-21.58
GUAD0205	8/9/2022 9:27	37.8	40.2	0.0	22.0	128.4	129	-1.99	-1.35
GUAD0207	8/11/2022 14:47	34.6	37.3	0.0	28.1	125.2	125.2	-0.69	-0.25
GUAD0208	8/8/2022 14:53	39.3	39.1	0.0	21.6	128.8	130.3	-0.19	-0.01
GUAD0209	8/9/2022 7:08	36.6	40.8	0.0	22.6	126	126.7	-0.45	-0.21
GUAD0211	8/8/2022 8:45	54.3	45.0	0.0	0.7	124.7	128.8	-0.17	-0.3
GUAD0213	8/8/2022 8:37	50.2	43.7	0.0	6.1	129.4	128.7	-18.67	-17.93
GUAD0214	8/9/2022 11:17	56.2	42.6	0.0	1.2	120.9	125.7	-0.07	-0.86
GUAD0214	8/9/2022 11:20	57.5	40.7	0.0	1.8	127.4	127.4	-1.68	-1.48
GUAD0215	8/8/2022 10:53	37.3	35.8	0.1	26.8	129.8	128.6	-2.9	-0.96
GUAD0216	8/9/2022 9:14	36.8	37.0	0.0	26.2	128.5	129.1	-1.67	-1.45
GUAD0217	8/5/2022 10:51	48.7	43.3	0.0	8.0	129.9	129.5	-1.29	-0.8
GUAD0218	8/5/2022 10:35	53.2	41.7	0.0	5.1	118.4	125.3	-0.36	-1.56
GUAD0219	8/5/2022 10:41	57.1	42.7	0.0	0.2	124.9	125.3	-0.69	-1.55
GUAD0220	8/5/2022 10:17	56.6	43.4	0.0	0.0	118.1	122.8	-2.26	-7.72
GUAD0221	8/4/2022 14:57	47.7	38.0	0.0	14.3	121	120.8	-2.65	-1.79
GUAD0222	8/1/2022 15:10	54.2	42.9	0.0	2.9	109.5	110.7	-0.08	-0.32
GUAD0223	8/31/2022 10:50	44.1	47.6	0.0	8.3	121.7	122.2	-0.73	-0.74
GUAD0224	8/1/2022 10:17	48.7	44.1	0.0	7.2	116.1	118	-0.07	-0.17
GUAD0225	8/5/2022 7:31	55.3	38.6	0.0	6.1	117.1	121.6	-0.49	-1.12
GUAD0226	8/5/2022 9:07	57.6	42.4	0.0	0.0	123.7	124	-3.71	-5.1
GUAD0227	8/5/2022 7:44	52.8	41.3	0.0	5.9	121.5	122	-1.12	-1.63

GUAD0228	8/5/2022 8:22	49.4	38.8	0.0	11.8	107.6	111.3	-0.14	-0.29
GUAD0230	8/5/2022 6:53	50.1	41.0	0.0	8.9	112.8	113	-0.86	-1.37
GUADH11L	8/4/2022 14:41	58.5	39.5	0.0	2.0	99.3	98.7	-0.03	-0.25
GUADH12L	8/4/2022 14:10	60.4	39.0	0.0	0.6	119.1	117.6	-0.55	-1.21

Wells 114, 123, 134, 135, 149, 151, 154, 156, 158, 161, 162, 181, 182, 185, 186, 199, 200, 209, 217 and 218 are approved to operate at a temperature HOV of 145°F.

There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

Guadalupe Recycling & Disposal Facility, San Jose, CA

Wellfield Monitoring Report -September 1, 6, 7, 8, and 9, 2022

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	9/8/2022 13:33	48.7	40.4	0.0	10.9	129.5	129.7	-14.8	-14.8
GDLC0189	9/8/2022 13:00	46.7	40.8	0.0	12.5	121.6	121.2	-2.4	-1.0
GDLC0190	9/8/2022 12:52	44.0	38.8	0.0	17.2	126.6	127.3	-1.4	-5.5
GDLC0191	9/8/2022 8:19	29.3	35.1	0.0	35.6	118.8	122.2	-3.5	-16.8
GDLC0192	9/8/2022 7:58	51.7	45.9	0.0	2.4	129.1	129.1	-3.7	-5.1
GDLC0193	9/8/2022 8:54	50.6	43.7	0.0	5.7	128.9	128.2	-0.3	-1.4
GDLC0196	9/9/2022 8:51	27.8	31.9	0.8	39.5	113.0	113.0	-1.4	-1.4
GDLC0197	9/9/2022 7:52	38.7	36.5	0.0	24.8	127.3	128.2	-1.2	-0.9
GDLC0232	9/9/2022 8:45	34.3	37.3	0.0	28.4	118.1	117.8	-1.7	-0.8
GDLC0233	9/8/2022 13:57	31.2	31.6	0.1	37.1	117.2	117.1	-4.4	-2.6
GDLC0234	9/8/2022 13:14	42.1	36.6	0.0	21.3	118.2	118.5	-0.1	-0.2
GDLC0235	9/7/2022 11:57	49.8	44.1	0.0	6.1	129.8	129.8	-11.0	-11.0
GDLC0236	9/8/2022 9:36	47.5	40.0	0.0	12.5	129.9	129.1	-0.2	-0.5
GDLC0237	9/8/2022 9:08	49.3	42.7	0.0	8.0	128.2	128.9	-2.0	-2.3
GDLC0238	9/9/2022 12:02	28.8	32.8	0.0	38.4	113.1	113.3	-0.2	-0.2
GDLC0239	9/6/2022 8:51	21.3	39.2	0.0	39.5	115.3	115.3	-0.6	-0.2
GDLC0240	9/6/2022 8:43	43.9	43.7	0.0	12.4	120.1	120.1	-0.5	-0.3
GDLC0241	9/6/2022 9:06	52.1	43.6	0.0	4.3	126.6	126.6	-1.8	-1.8
GDLC0242	9/6/2022 8:32	58.4	41.5	0.0	0.1	97.7	98.2	-0.1	0.0
GDLC0243	9/6/2022 9:11	41.6	40.8	0.0	17.6	120.0	120.1	-1.1	-0.8
GDLC0244	9/9/2022 8:38	45.6	40.7	0.0	13.7	115.3	116.4	-0.6	-0.1
GUAD0062	9/7/2022 6:59	50.8	39.4	0.0	9.8	96.7	96.7	-4.1	-4.1
GUAD0065	9/9/2022 7:42	53.1	42.2	0.0	4.7	114.4	114.4	-0.2	-0.2
GUAD0066	9/6/2022 9:46	34.4	33.2	0.0	32.4	112.6	112.6	-13.6	-12.9
GUAD0081	9/1/2022 8:29	56.7	43.3	0.0	0.0	110.6	110.9	-27.8	-27.8
GUAD0082	9/1/2022 8:23	52.1	36.8	0.1	11.0	102.0	101.7	-11.4	-16.5
GUAD0112	9/9/2022 11:41	36.4	32.2	0.0	31.4	126.8	127.3	-0.8	0.0
GUAD0114	9/8/2022 14:15	50.7	43.8	0.0	5.5	104.9	105.0	-26.0	-25.4
GUAD0122	9/8/2022 10:47	53.9	41.9	0.0	4.2	128.5	128.0	-10.0	-12.5
GUAD0124	9/8/2022 8:12	42.6	39.9	0.0	17.5	129.1	128.9	-16.8	-12.9
GUAD0129	9/7/2022 7:53	60.1	39.9	0.0	0.0	105.3	107.1	-5.1	-5.1
GUAD0131	9/6/2022 8:09	59.4	40.3	0.1	0.2	118.9	118.9	-30.3	-27.0
GUAD0134	9/6/2022 11:00	52.4	41.0	0.1	6.5	124.7	124.7	-1.1	-1.3
GUAD0135	9/6/2022 8:59	50.5	42.0	0.0	7.5	129.4	127.3	-1.0	-1.0
GUAD0138	9/9/2022 13:55	49.3	39.2	0.0	11.5	115.5	115.4	-2.0	-2.0
GUAD0142	9/6/2022 9:39	48.4	37.7	0.0	13.9	105.5	105.8	-2.7	-2.6
GUAD0146	9/8/2022 9:29	54.7	42.6	0.0	2.7	128.2	128.5	-15.9	-15.9
GUAD0147	9/8/2022 13:44	53.2	38.3	0.0	8.5	121.7	122.1	-6.5	-6.5
GUAD0151	9/8/2022 13:27	56.4	37.8	0.0	5.8	126.6	128.1	-7.7	-8.6
GUAD0152	9/9/2022 10:01	55.4	43.2	0.0	1.4	127.8	126.2	-17.5	-19.3
GUAD0154	9/8/2022 9:48	55.6	42.7	0.0	1.7	129.8	127.8	-12.6	-12.2
GUAD0161	9/9/2022 9:05	56.3	41.6	0.0	2.1	128.0	128.4	-10.9	-10.9
GUAD0162	9/9/2022 9:10	55.1	44.1	0.0	0.8	124.9	123.0	-21.8	-21.8
GUAD0172	9/8/2022 7:34	59.2	40.4	0.0	0.4	112.5	112.5	-0.6	-0.9
GUAD0173	9/8/2022 7:40	48.9	39.7	0.0	11.4	122.4	122.6	-0.1	-0.2
GUAD0176	9/8/2022 14:13	33.4	33.5	0.0	33.1	114.6	115.2	-3.1	-2.4

GUAD0177	9/8/2022 13:52	47.6	39.2	0.0	13.2	128.9	128.9	-15.3	-15.4
GUAD0178	9/8/2022 11:03	47.0	36.0	1.9	15.1	118.6	119.2	-23.3	-22.6
GUAD0179	9/9/2022 9:46	36.2	34.5	0.0	29.3	115.8	116.0	-0.6	-0.4
GUAD0180	9/8/2022 10:34	52.9	42.2	0.0	4.9	130.7	130.8	-13.6	-13.7
GUAD0181	9/8/2022 10:23	52.5	43.1	0.0	4.4	126.7	127.5	-6.4	-10.5
GUAD0183	9/7/2022 11:53	55.5	42.6	0.0	1.9	94.6	94.4	-17.3	-17.3
GUAD0184	9/7/2022 11:48	46.6	41.3	0.1	12.0	130.7	130.6	-10.4	-5.7
GUAD0185	9/8/2022 9:02	54.9	43.0	0.0	2.1	120.5	122.4	-0.1	-0.4
GUAD0186	9/9/2022 10:35	49.3	42.2	0.0	8.5	127.3	127.7	-20.8	-20.8
GUAD0187	9/8/2022 7:54	56.9	43.1	0.0	0.0	124.5	124.6	-20.8	-20.7
GUAD0198	9/9/2022 9:38	53.8	40.2	0.0	6.0	122.6	122.6	-3.8	-3.8
GUAD0199	9/8/2022 10:55	53.2	39.4	0.0	7.4	129.1	129.9	-12.0	-13.1
GUAD0200	9/8/2022 11:06	52.7	39.2	0.0	8.1	129.1	128.4	-15.3	-15.3
GUAD0201	9/8/2022 13:17	50.3	40.5	0.0	9.2	119.7	122.7	-15.6	-15.7
GUAD0202	9/8/2022 14:23	53.6	39.6	0.0	6.8	125.1	125.1	-0.4	-0.5
GUAD0203	9/9/2022 8:03	54.6	44.1	0.0	1.3	119.5	119.6	-16.6	-16.5
GUAD0204	9/8/2022 13:41	52.1	41.3	0.0	6.6	124.8	124.5	-16.1	-15.7
GUAD0205	9/8/2022 12:47	44.1	40.9	0.0	15.0	128.4	128.9	-0.5	-0.1
GUAD0207	9/9/2022 9:54	41.8	39.1	0.0	19.1	126.2	128.0	-0.2	0.0
GUAD0208	9/8/2022 10:29	41.3	40.1	0.0	18.6	129.8	129.8	-0.2	-0.3
GUAD0209	9/8/2022 10:45	44.6	41.8	0.0	13.6	128.0	128.4	-0.1	-0.1
GUAD0211	9/8/2022 9:25	48.2	43.3	0.0	8.5	129.1	129.1	-0.1	-0.1
GUAD0213	9/8/2022 9:15	52.5	43.8	0.0	3.7	129.0	129.2	-13.3	-13.2
GUAD0214	9/9/2022 9:01	54.8	41.9	0.0	3.3	128.3	129.1	-1.4	-3.6
GUAD0215	9/8/2022 9:43	49.8	42.3	0.0	7.9	129.9	129.1	-0.1	-0.2
GUAD0216	9/8/2022 12:37	46.2	39.4	0.1	14.3	129.9	129.6	-0.5	-0.3
GUAD0217	9/8/2022 8:35	45.8	43.0	0.0	11.2	129.1	129.8	-0.9	-0.4
GUAD0218	9/8/2022 8:26	34.5	37.4	0.0	28.1	128.7	129.2	-2.6	-1.9
GUAD0219	9/8/2022 7:49	48.4	40.7	0.0	10.9	124.9	124.9	-2.4	-2.4
GUAD0220	9/8/2022 8:05	53.4	44.1	0.0	2.5	126.5	126.9	-9.8	-12.8
GUAD0221	9/6/2022 8:17	40.6	36.9	0.0	22.5	120.1	120.8	-1.4	-1.3
GUAD0222	9/6/2022 11:57	42.5	42.2	0.0	15.3	115.3	115.5	-0.1	-0.1
GUAD0223	Offline for filling								
GUAD0224	Offline for filling								
GUAD0225	9/6/2022 9:59	38.5	35.1	0.0	26.4	125.3	125.3	-0.1	0.0
GUAD0226	9/7/2022 7:23	57.2	42.7	0.0	0.1	123.5	123.5	-0.3	-0.2
GUAD0227	9/6/2022 10:05	36.6	36.2	0.0	27.2	122.5	122.2	-0.6	-0.3
GUAD0228	9/6/2022 9:27	34.6	35.8	0.0	29.6	118.8	119.3	-0.1	0.0
GUAD0230	9/6/2022 11:51	32.1	31.0	0.1	36.8	114.5	114.6	-0.5	-0.1
GUADH11L	9/1/2022 8:44	52.9	38.2	1.6	7.3	88.2	88.4	-7.2	-7.1
GUADH12L	9/9/2022 11:08	52.0	35.0	0.8	12.2	95.4	95.7	-0.9	-0.9

Wells 114, 123, 134, 135, 149, 151, 154, 156, 158, 161, 162, 181, 182, 185, 186, 199, 200, 209, 217 and 218 are approved to operate at a temperature HOV of 110°F. There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

APPENDIX K

WELLFIELD DEVIATION LOGS

Guadalupe Recycling & Disposal Facility, San Jose, CA

Wellfield Deviation Report

April 1, 2022 - September 30, 2022

REPORT PREPARED BY: Rajan Phadnis
UPDATED DATE: 10/1/2022
LFG MONITORING DEVICE: GEM
MODEL: 5000
DATE LAST CALIBRATED: Daily

Wellhead ID. Number	Date Time	Gas Composition (% by volume)				Initial Temperature(oF)	Adjusted Temperature(oF)	Initial Static Pressure ("H ₂ O)	Adjusted Static Pressure ("H ₂ O)	Comments	Duration of Exceedance As of the End of Reporting Period (Days)
		CH ₄	CO ₂	O ₂	Balance						
GUAD0207	6/6/2022 12:14	51.0	40.4	0.2	8.4	127.5	134.5	0.04	-0.32	NSPS/EG CAI;Inc. Flow/Vac.	
GUAD0207	6/6/2022 15:20	46.0	36.9	0.4	16.7	130.3	128.2	-0.43	-0.19	Barely Open;Dec. Flow/Vac.	<1
Well 207 had pressure exceedance during initial monitoring in June 2022. Adjustments were made and exceedance was corrected on the same day.											
GDLC0233	7/14/2022 10:48	48.7	35.1	0.5	15.7	97.1	97.2	0.10	0.11	Barely Open;No Adj. Made	
GDLC0233	7/18/2022 13:09	55.8	37.1	0	7.1	118	118	-3.39	-4.21	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.	4
Well 233 had pressure exceedance during initial monitoring in July 2022. Adjustments were made and exceedance was corrected.											
GUAD0082	7/14/2022 8:23	44.4	35.3	1.1	19.2	93.2	93	0.02	0.01	Barely Open;No Adj. Made	
GUAD0082	7/18/2022 13:31	51.8	37.2	0	11	97.7	103.9	-1.08	-10.86	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.	4
Well 82 had pressure exceedance during initial monitoring in July 2022. Adjustments were made and exceedance was corrected.											
GUAD0226	7/19/2022 9:38	58.1	41.9	0.0	0	110.5	110.3	0.85	0.84	NSPS/EG CAI;Fully Open;Pinched	
GUAD0226	7/26/2022 12:45	54.9	39.2	0.1	5.8	122	122.6	-2.69	-3.77	Barely Open;Inc. Flow/Vac.	7
Well 226 had pressure exceedance during initial monitoring in July 2022. New lateral was installed and exceedance was corrected.											
GDLC0234	8/5/2022 14:06	47.6	39.3	0	13.1	109.2	111.4	0.04	-0.05	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.	<1
Well 234 had pressure exceedance during initial monitoring in August 2022. Adjustments were made and exceedance was corrected on the same day.											
GDLC0238	8/5/2022 13:35	44.9	38.3	0	16.8	111.6	113.2	0.24	-0.13	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.	<1
Well 234 had pressure exceedance during initial monitoring in August 2022. Adjustments were made and exceedance was corrected on the same day.											
GUAD0134	8/5/2022 13:07	58	41.3	0.1	0.6	117.4	117.3	0.34	0.35	NSPS/EG CAI;Fully Open;No Adj. Made;Pinched	
GUAD0134	8/5/2022 13:17	58	42	0	0	117.6	117.6	0.35	0.36	NSPS/EG CAI;Fully Open;No Adj. Made;Pinched	
GUAD0134	8/11/2022 12:55	58.2	41.1	0.2	0.5	127.1	126.7	-6.05	-2.15	Barely Open;Dec. Flow/Vac.	6
Well 134 had pressure exceedance during initial monitoring in August 2022. New lateral was installed and exceedance was corrected.											
GUAD0179	8/9/2022 10:44	46.4	35.4	0	18.2	108.2	114.2	0.11	-0.13	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.	<1
Well 179 had pressure exceedance during initial monitoring in August 2022. Adjustments were made and exceedance was corrected on the same day.											
GUAD0180	8/8/2022 14:13	55.6	42.1	0	2.3	88	114	2.85	-11.28	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.	<1
Well 180 had pressure exceedance during initial monitoring in August 2022. Adjustments were made and exceedance was corrected on the same day.											
GUAD0181	8/9/2022 6:55	56.6	43.4	0	0	123.2	124.4	6.48	-1.77	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.	<1
Well 181 had pressure exceedance during initial monitoring in August 2022. Adjustments were made and exceedance was corrected on the same day.											
GUAD0202	8/9/2022 7:46	58	42	0	0	94.5	118.2	0.24	-0.29	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.	<1
Well 202 had pressure exceedance during initial monitoring in August 2022. Adjustments were made and exceedance was corrected on the same day.											

%= percent
in. w.c.= inches in water column
NSPS= New Source Performance Standards
EG CAI= Emissions Guidelines Corrective Action Initiated
EG CAC= Emissions Guidelines Corrective Action Completed
°F = degrees Fahrenheit

APPENDIX L

MONTHLY LANDFILL GAS FLOW RATES

**April 1, 2022 - September 30, 2022 SAR MONTHLY LFG Input to Flare (A-9)
Guadalupe Recycling & Disposal Facility, San Jose, CA**

A-9 Old Enclosed Flare

Month	Total Available Runtime (hours)	Total Downtime (hours)	Total Runtime (hours)	Average Flow (scfm)	Average CH ₄ (%)*	Total LFG Volume (scf)	Total CH ₄ Volume (scf)	Total MMBTU
April 2022	720.00	720.00	0.00	0	49.9	0	0	0
May 2022	744.00	744.00	0.00	0	49.9	0	0	0
June 2022	720.00	720.00	0.00	0	49.9	0	0	0
July 2022	744.00	744.00	0.00	0	49.9	0	0	0
August 2022	744.00	744.00	0.00	0	49.9	0	0	0
September 2022	720.00	720.00	0.00	0	49.9	0	0	0
April 1, 2022 - September 30, 2022 Totals/Avg:	4,392.0	4,392.0	0.0	0	49.9	0.0	0.0	0.0
2022 TOTALS/ AVERAGE :	6,551.0	6,551.0	0.0	0	49.9	0.0	0.0	0.0

Notes:

*Starting June 24, 2020 methane content determined from flare A-9 April 29, 2020 source test.

scfm= standard cubic feet per minute

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

April-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
4/1/2022	0.0	49.9	0	0	0	1,013.0	0
4/2/2022	0.0	49.9	0	0	0	1,013.0	0
4/3/2022	0.0	49.9	0	0	0	1,013.0	0
4/4/2022	0.0	49.9	0	0	0	1,013.0	0
4/5/2022	0.0	49.9	0	0	0	1,013.0	0
4/6/2022	0.0	49.9	0	0	0	1,013.0	0
4/7/2022	0.0	49.9	0	0	0	1,013.0	0
4/8/2022	0.0	49.9	0	0	0	1,013.0	0
4/9/2022	0.0	49.9	0	0	0	1,013.0	0
4/10/2022	0.0	49.9	0	0	0	1,013.0	0
4/11/2022	0.0	49.9	0	0	0	1,013.0	0
4/12/2022	0.0	49.9	0	0	0	1,013.0	0
4/13/2022	0.0	49.9	0	0	0	1,013.0	0
4/14/2022	0.0	49.9	0	0	0	1,013.0	0
4/15/2022	0.0	49.9	0	0	0	1,013.0	0
4/16/2022	0.0	49.9	0	0	0	1,013.0	0
4/17/2022	0.0	49.9	0	0	0	1,013.0	0
4/18/2022	0.0	49.9	0	0	0	1,013.0	0
4/19/2022	0.0	49.9	0	0	0	1,013.0	0
4/20/2022	0.0	49.9	0	0	0	1,013.0	0
4/21/2022	0.0	49.9	0	0	0	1,013.0	0
4/22/2022	0.0	49.9	0	0	0	1,013.0	0
4/23/2022	0.0	49.9	0	0	0	1,013.0	0
4/24/2022	0.0	49.9	0	0	0	1,013.0	0
4/25/2022	0.0	49.9	0	0	0	1,013.0	0
4/26/2022	0.0	49.9	0	0	0	1,013.0	0
4/27/2022	0.0	49.9	0	0	0	1,013.0	0
4/28/2022	0.0	49.9	0	0	0	1,013.0	0
4/29/2022	0.0	49.9	0	0	0	1,013.0	0
4/30/2022	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
						Maximum:	0

Notes:

*Methane content determined from the the April 28, 2020 source test.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

May-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
5/1/2022	0.0	49.9	0	0	0	1,013.0	0
5/2/2022	0.0	49.9	0	0	0	1,013.0	0
5/3/2022	0.0	49.9	0	0	0	1,013.0	0
5/4/2022	0.0	49.9	0	0	0	1,013.0	0
5/5/2022	0.0	49.9	0	0	0	1,013.0	0
5/6/2022	0.0	49.9	0	0	0	1,013.0	0
5/7/2022	0.0	49.9	0	0	0	1,013.0	0
5/8/2022	0.0	49.9	0	0	0	1,013.0	0
5/9/2022	0.0	49.9	0	0	0	1,013.0	0
5/10/2022	0.0	49.9	0	0	0	1,013.0	0
5/11/2022	0.0	49.9	0	0	0	1,013.0	0
5/12/2022	0.0	49.9	0	0	0	1,013.0	0
5/13/2022	0.0	49.9	0	0	0	1,013.0	0
5/14/2022	0.0	49.9	0	0	0	1,013.0	0
5/15/2022	0.0	49.9	0	0	0	1,013.0	0
5/16/2022	0.0	49.9	0	0	0	1,013.0	0
5/17/2022	0.0	49.9	0	0	0	1,013.0	0
5/18/2022	0.0	49.9	0	0	0	1,013.0	0
5/19/2022	0.0	49.9	0	0	0	1,013.0	0
5/20/2022	0.0	49.9	0	0	0	1,013.0	0
5/21/2022	0.0	49.9	0	0	0	1,013.0	0
5/22/2022	0.0	49.9	0	0	0	1,013.0	0
5/23/2022	0.0	49.9	0	0	0	1,013.0	0
5/24/2022	0.0	49.9	0	0	0	1,013.0	0
5/25/2022	0.0	49.9	0	0	0	1,013.0	0
5/26/2022	0.0	49.9	0	0	0	1,013.0	0
5/27/2022	0.0	49.9	0	0	0	1,013.0	0
5/28/2022	0.0	49.9	0	0	0	1,013.0	0
5/29/2022	0.0	49.9	0	0	0	1,013.0	0
5/30/2022	0.0	49.9	0	0	0	1,013.0	0
5/31/2022	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
						Maximum:	0

Notes:

*Methane content determined from the the April 28, 2020 source test.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

June-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
6/1/2022	0.0	49.9	0	0	0	1,013.0	0
6/2/2022	0.0	49.9	0	0	0	1,013.0	0
6/3/2022	0.0	49.9	0	0	0	1,013.0	0
6/4/2022	0.0	49.9	0	0	0	1,013.0	0
6/5/2022	0.0	49.9	0	0	0	1,013.0	0
6/6/2022	0.0	49.9	0	0	0	1,013.0	0
6/7/2022	0.0	49.9	0	0	0	1,013.0	0
6/8/2022	0.0	49.9	0	0	0	1,013.0	0
6/9/2022	0.0	49.9	0	0	0	1,013.0	0
6/10/2022	0.0	49.9	0	0	0	1,013.0	0
6/11/2022	0.0	49.9	0	0	0	1,013.0	0
6/12/2022	0.0	49.9	0	0	0	1,013.0	0
6/13/2022	0.0	49.9	0	0	0	1,013.0	0
6/14/2022	0.0	49.9	0	0	0	1,013.0	0
6/15/2022	0.0	49.9	0	0	0	1,013.0	0
6/16/2022	0.0	49.9	0	0	0	1,013.0	0
6/17/2022	0.0	49.9	0	0	0	1,013.0	0
6/18/2022	0.0	49.9	0	0	0	1,013.0	0
6/19/2022	0.0	49.9	0	0	0	1,013.0	0
6/20/2022	0.0	49.9	0	0	0	1,013.0	0
6/21/2022	0.0	49.9	0	0	0	1,013.0	0
6/22/2022	0.0	49.9	0	0	0	1,013.0	0
6/23/2022	0.0	49.9	0	0	0	1,013.0	0
6/24/2022	0.0	49.9	0	0	0	1,013.0	0
6/25/2022	0.0	49.9	0	0	0	1,013.0	0
6/26/2022	0.0	49.9	0	0	0	1,013.0	0
6/27/2022	0.0	49.9	0	0	0	1,013.0	0
6/28/2022	0.0	49.9	0	0	0	1,013.0	0
6/29/2022	0.0	49.9	0	0	0	1,013.0	0
6/30/2022	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
						Maximum:	0

Notes:

*Methane content determined from the the April 28, 2020 source test.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

July-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
7/1/2022	0.0	49.9	0	0	0	1,013.0	0
7/2/2022	0.0	49.9	0	0	0	1,013.0	0
7/3/2022	0.0	49.9	0	0	0	1,013.0	0
7/4/2022	0.0	49.9	0	0	0	1,013.0	0
7/5/2022	0.0	49.9	0	0	0	1,013.0	0
7/6/2022	0.0	49.9	0	0	0	1,013.0	0
7/7/2022	0.0	49.9	0	0	0	1,013.0	0
7/8/2022	0.0	49.9	0	0	0	1,013.0	0
7/9/2022	0.0	49.9	0	0	0	1,013.0	0
7/10/2022	0.0	49.9	0	0	0	1,013.0	0
7/11/2022	0.0	49.9	0	0	0	1,013.0	0
7/12/2022	0.0	49.9	0	0	0	1,013.0	0
7/13/2022	0.0	49.9	0	0	0	1,013.0	0
7/14/2022	0.0	49.9	0	0	0	1,013.0	0
7/15/2022	0.0	49.9	0	0	0	1,013.0	0
7/16/2022	0.0	49.9	0	0	0	1,013.0	0
7/17/2022	0.0	49.9	0	0	0	1,013.0	0
7/18/2022	0.0	49.9	0	0	0	1,013.0	0
7/19/2022	0.0	49.9	0	0	0	1,013.0	0
7/20/2022	0.0	49.9	0	0	0	1,013.0	0
7/21/2022	0.0	49.9	0	0	0	1,013.0	0
7/22/2022	0.0	49.9	0	0	0	1,013.0	0
7/23/2022	0.0	49.9	0	0	0	1,013.0	0
7/24/2022	0.0	49.9	0	0	0	1,013.0	0
7/25/2022	0.0	49.9	0	0	0	1,013.0	0
7/26/2022	0.0	49.9	0	0	0	1,013.0	0
7/27/2022	0.0	49.9	0	0	0	1,013.0	0
7/28/2022	0.0	49.9	0	0	0	1,013.0	0
7/29/2022	0.0	49.9	0	0	0	1,013.0	0
7/30/2022	0.0	49.9	0	0	0	1,013.0	0
7/31/2022	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
						Maximum:	0

Notes:

*Methane content determined from the the April 28, 2020 source test.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

August-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
8/1/2022	0.0	49.9	0	0	0	1,013.0	0
8/2/2022	0.0	49.9	0	0	0	1,013.0	0
8/3/2022	0.0	49.9	0	0	0	1,013.0	0
8/4/2022	0.0	49.9	0	0	0	1,013.0	0
8/5/2022	0.0	49.9	0	0	0	1,013.0	0
8/6/2022	0.0	49.9	0	0	0	1,013.0	0
8/7/2022	0.0	49.9	0	0	0	1,013.0	0
8/8/2022	0.0	49.9	0	0	0	1,013.0	0
8/9/2022	0.0	49.9	0	0	0	1,013.0	0
8/10/2022	0.0	49.9	0	0	0	1,013.0	0
8/11/2022	0.0	49.9	0	0	0	1,013.0	0
8/12/2022	0.0	49.9	0	0	0	1,013.0	0
8/13/2022	0.0	49.9	0	0	0	1,013.0	0
8/14/2022	0.0	49.9	0	0	0	1,013.0	0
8/15/2022	0.0	49.9	0	0	0	1,013.0	0
8/16/2022	0.0	49.9	0	0	0	1,013.0	0
8/17/2022	0.0	49.9	0	0	0	1,013.0	0
8/18/2022	0.0	49.9	0	0	0	1,013.0	0
8/19/2022	0.0	49.9	0	0	0	1,013.0	0
8/20/2022	0.0	49.9	0	0	0	1,013.0	0
8/21/2022	0.0	49.9	0	0	0	1,013.0	0
8/22/2022	0.0	49.9	0	0	0	1,013.0	0
8/23/2022	0.0	49.9	0	0	0	1,013.0	0
8/24/2022	0.0	49.9	0	0	0	1,013.0	0
8/25/2022	0.0	49.9	0	0	0	1,013.0	0
8/26/2022	0.0	49.9	0	0	0	1,013.0	0
8/27/2022	0.0	49.9	0	0	0	1,013.0	0
8/28/2022	0.0	49.9	0	0	0	1,013.0	0
8/29/2022	0.0	49.9	0	0	0	1,013.0	0
8/30/2022	0.0	49.9	0	0	0	1,013.0	0
8/31/2022	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
						Maximum:	0

Notes:

*Methane content determined from the the April 28, 2020 source test.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH: **September-22**

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
9/1/2022	0.0	49.9	0	0	0	1,013.0	0
9/2/2022	0.0	49.9	0	0	0	1,013.0	0
9/3/2022	0.0	49.9	0	0	0	1,013.0	0
9/4/2022	0.0	49.9	0	0	0	1,013.0	0
9/5/2022	0.0	49.9	0	0	0	1,013.0	0
9/6/2022	0.0	49.9	0	0	0	1,013.0	0
9/7/2022	0.0	49.9	0	0	0	1,013.0	0
9/8/2022	0.0	49.9	0	0	0	1,013.0	0
9/9/2022	0.0	49.9	0	0	0	1,013.0	0
9/10/2022	0.0	49.9	0	0	0	1,013.0	0
9/11/2022	0.0	49.9	0	0	0	1,013.0	0
9/12/2022	0.0	49.9	0	0	0	1,013.0	0
9/13/2022	0.0	49.9	0	0	0	1,013.0	0
9/14/2022	0.0	49.9	0	0	0	1,013.0	0
9/15/2022	0.0	49.9	0	0	0	1,013.0	0
9/16/2022	0.0	49.9	0	0	0	1,013.0	0
9/17/2022	0.0	49.9	0	0	0	1,013.0	0
9/18/2022	0.0	49.9	0	0	0	1,013.0	0
9/19/2022	0.0	49.9	0	0	0	1,013.0	0
9/20/2022	0.0	49.9	0	0	0	1,013.0	0
9/21/2022	0.0	49.9	0	0	0	1,013.0	0
9/22/2022	0.0	49.9	0	0	0	1,013.0	0
9/23/2022	0.0	49.9	0	0	0	1,013.0	0
9/24/2022	0.0	49.9	0	0	0	1,013.0	0
9/25/2022	0.0	49.9	0	0	0	1,013.0	0
9/26/2022	0.0	49.9	0	0	0	1,013.0	0
9/27/2022	0.0	49.9	0	0	0	1,013.0	0
9/28/2022	0.0	49.9	0	0	0	1,013.0	0
9/29/2022	0.0	49.9	0	0	0	1,013.0	0
9/30/2022	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
						Maximum:	0

Notes:

*Methane content determined from the the April 28, 2020 source test.

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

CH₄= methane

April 1, 2022 - September 30, 2022 SAR MONTHLY LFG Input to Flare (A-17)

Guadalupe Recycling & Disposal Facility, San Jose, CA

A-17 Enclosed Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)

Month	Total Available Runtime (hours)	Total Downtime (hours)	Total Runtime (hours)	Average Flow (scfm)	Average CH ₄ (%)*	Total LFG Volume (scf)	Total CH ₄ Volume (scf)	Total MMBTU
April 2022	720.00	4.9	715.1	1,972	43.3	84,587,087	36,719,879	37,197
May 2022	744.00	0.8	743.2	1,731	44.2	77,194,323	33,435,618	34,575
June 2022	720.00	9.4	710.6	1,504	44.2	64,116,934	27,717,372	28,718
July 2022	744.00	7.8	736.2	1,388	44.2	61,311,823	27,109,023	27,461
August 2022	744.00	11.6	732.4	1,555	44.2	68,357,411	30,224,229	30,617
September 2022	720.00	0.0	720.0	1,634	44.2	70,583,901	31,208,672	31,614
April 1, 2022 - September 30, 2022 Totals/Avg:	4,392.0	34.5	4,357.5	1,631	44.1	426,151,479	186,414,793	190,183
2022 TOTALS/ AVERAGE :	6,551.0	48.1	6,502.9	1,666	42.6	649,596,600	276,764,828	281,708

Notes:

NA= Initial startup of A-14 flare was on November 17, 2016. Stack was replaced with standard 120 MMBTU/HR stack at the end of October 2020. Per BAAQMD new designation is flare A-17.

*Starting April 9, 2021, Methane content determined from flare A-17 February 18, 2021 source test. Starting April 8, 2022, Methane content determined from flare A-17 February 16, 2022 source test results.

scfm= standard cubic feet per minute

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

April-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
4/1/2022	24.0	40.4	1,755	2,527,851	1,022,137	1,013.0	1,035.4
4/2/2022	24.0	40.4	1,749	2,518,670	1,018,424	1,013.0	1,031.7
4/3/2022	24.0	40.4	1,750	2,520,463	1,019,149	1,013.0	1,032.4
4/4/2022	24.0	40.4	1,754	2,525,995	1,021,386	1,013.0	1,034.7
4/5/2022	24.0	40.4	1,771	2,550,203	1,031,175	1,013.0	1,044.6
4/6/2022	24.0	40.4	1,832	2,638,622	1,066,927	1,013.0	1,080.8
4/7/2022	24.0	40.4	1,886	2,715,584	1,098,046	1,013.0	1,112.3
4/8/2022	24.0	44.2	1,886	2,716,133	1,200,938	1,013.0	1,216.6
4/9/2022	24.0	44.2	1,864	2,683,693	1,186,595	1,013.0	1,202.0
4/10/2022	24.0	44.2	1,845	2,656,268	1,174,469	1,013.0	1,189.7
4/11/2022	24.0	44.2	1,886	2,715,622	1,200,712	1,013.0	1,216.3
4/12/2022	24.0	44.2	2,039	2,936,463	1,298,357	1,013.0	1,315.2
4/13/2022	24.0	44.2	2,108	3,035,779	1,342,270	1,013.0	1,359.7
4/14/2022	24.0	44.2	2,087	3,004,903	1,328,618	1,013.0	1,345.9
4/15/2022	24.0	44.2	2,085	3,002,153	1,327,402	1,013.0	1,344.7
4/16/2022	24.0	44.2	2,051	2,953,432	1,305,860	1,013.0	1,322.8
4/17/2022	24.0	44.2	2,057	2,962,624	1,309,924	1,013.0	1,327.0
4/18/2022	24.0	44.2	2,067	2,975,903	1,315,796	1,013.0	1,332.9
4/19/2022	24.0	44.2	2,063	2,970,462	1,313,390	1,013.0	1,330.5
4/20/2022	23.4	44.2	2,103	2,952,833	1,305,595	1,013.0	1,322.6
4/21/2022	24.0	44.2	2,099	3,022,689	1,336,482	1,013.0	1,353.9
4/22/2022	24.0	44.2	2,065	2,973,227	1,314,612	1,013.0	1,331.7
4/23/2022	20.8	44.2	2,116	2,636,402	1,165,685	1,013.0	1,180.8
4/24/2022	24.0	44.2	2,147	3,092,003	1,367,129	1,013.0	1,384.9
4/25/2022	24.0	44.2	2,118	3,050,568	1,348,809	1,013.0	1,366.3
4/26/2022	24.0	44.2	2,108	3,035,751	1,342,257	1,013.0	1,359.7
4/27/2022	24.0	44.2	2,092	3,012,151	1,331,823	1,013.0	1,349.1
4/28/2022	24.0	44.2	2,007	2,889,408	1,277,552	1,013.0	1,294.2
4/29/2022	23.0	44.2	1,918	2,643,027	1,168,614	1,013.0	1,183.8
4/30/2022	24.0	44.2	1,853	2,668,205	1,179,747	1,013.0	1,195.1
Totals/ Average:	715.13	43.3	1,972	84,587,087	36,719,879	1013.0	37,197
						Maximum:	1,385

Notes:

*Methane content determined from flare A-17 February 18, 2021 and February 16, 2022 source test results.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

May-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
5/1/2022	24.0	44.2	1,828	2,632,568	1,163,990	1,013.0	1,179.1
5/2/2022	24.0	44.2	1,804	2,597,295	1,148,394	1,013.0	1,163.3
5/3/2022	24.0	44.2	1,831	2,636,944	1,165,925	1,013.0	1,181.1
5/4/2022	24.0	44.2	1,846	2,658,841	1,175,607	1,013.0	1,190.9
5/5/2022	24.0	44.2	1,823	2,624,693	1,160,508	1,013.0	1,175.6
5/6/2022	24.0	44.2	1,831	2,636,581	1,165,764	1,013.0	1,180.9
5/7/2022	24.0	44.2	1,821	2,621,849	1,159,251	1,013.0	1,174.3
5/8/2022	24.0	44.2	1,787	2,572,975	1,137,641	1,013.0	1,152.4
5/9/2022	24.0	44.2	1,778	2,559,716	1,131,778	1,013.0	1,146.5
5/10/2022	24.0	44.2	1,770	2,548,341	1,126,749	1,013.0	1,141.4
5/11/2022	24.0	44.2	1,780	2,563,465	1,133,436	1,013.0	1,148.2
5/12/2022	24.0	44.2	1,783	2,566,967	1,134,984	1,013.0	1,149.7
5/13/2022	24.0	44.2	1,724	2,483,083	1,097,895	1,013.0	1,112.2
5/14/2022	24.0	44.2	1,685	2,426,635	1,072,937	1,013.0	1,086.9
5/15/2022	24.0	44.2	1,669	2,402,977	1,062,476	1,013.0	1,076.3
5/16/2022	24.0	44.2	1,667	2,400,823	1,061,524	1,013.0	1,075.3
5/17/2022	24.0	44.2	1,665	2,397,568	1,060,085	1,013.0	1,073.9
5/18/2022	24.0	44.2	1,676	2,413,610	1,067,178	1,013.0	1,081.1
5/19/2022	24.0	44.2	1,689	2,432,005	1,075,311	1,013.0	1,089.3
5/20/2022	24.0	44.2	1,673	2,408,653	1,064,986	1,013.0	1,078.8
5/21/2022	24.0	44.2	1,663	2,394,660	1,058,799	1,013.0	1,072.6
5/22/2022	24.0	44.2	1,675	2,411,976	1,066,455	1,013.0	1,080.3
5/23/2022	24.0	44.2	1,694	2,438,651	1,078,250	1,013.0	1,092.3
5/24/2022	24.0	44.2	1,705	2,455,288	1,085,606	1,013.0	1,099.7
5/25/2022	24.0	44.2	1,709	2,461,041	1,088,149	1,013.0	1,102.3
5/26/2022	24.0	44.2	1,674	2,410,109	1,065,630	1,013.0	1,079.5
5/27/2022	24.0	44.2	1,669	2,403,103	1,062,532	1,013.0	1,076.3
5/28/2022	24.0	44.2	1,670	2,404,631	1,063,208	1,013.0	1,077.0
5/29/2022	24.0	44.2	1,661	2,391,665	1,057,475	1,013.0	1,071.2
5/30/2022	24.0	44.2	1,667	2,400,903	1,061,559	1,013.0	1,075.4
5/31/2022	23.2	44.2	1,748	2,436,707	1,077,390	1,013.0	1,091.4
Totals/ Average:	743.23	44.2	1,731	77,194,323	34,131,470	1013.0	34,575
Notes:						Maximum:	1,191

*Methane content determined from February 16, 2022 source test results.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

June-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
6/1/2022	24.0	44.2	1,778	2,560,357	1,132,062	1,013.0	1,146.8
6/2/2022	24.0	44.2	1,714	2,468,225	1,091,326	1,013.0	1,105.5
6/3/2022	24.0	44.2	1,673	2,409,583	1,065,397	1,013.0	1,079.2
6/4/2022	24.0	44.2	1,672	2,407,307	1,064,391	1,013.0	1,078.2
6/5/2022	23.0	44.2	1,771	2,447,235	1,082,045	1,013.0	1,096.1
6/6/2022	22.9	44.2	1,640	2,253,816	996,525	1,013.0	1,009.5
6/7/2022	24.0	44.2	1,508	2,171,211	960,001	1,013.0	972.5
6/8/2022	24.0	44.2	1,432	2,061,992	911,710	1,013.0	923.6
6/9/2022	24.0	44.2	1,484	2,136,854	944,810	1,013.0	957.1
6/10/2022	24.0	44.2	1,527	2,199,176	972,366	1,013.0	985.0
6/11/2022	24.0	44.2	1,523	2,193,467	969,841	1,013.0	982.4
6/12/2022	24.0	44.2	1,492	2,148,419	949,923	1,013.0	962.3
6/13/2022	23.6	44.2	1,511	2,135,943	944,407	1,013.0	956.7
6/14/2022	24.0	44.2	1,465	2,110,202	933,026	1,013.0	945.2
6/15/2022	24.0	44.2	1,386	1,995,759	882,425	1,013.0	893.9
6/16/2022	20.5	44.2	1,423	1,753,731	775,412	1,013.0	785.5
6/17/2022	24.0	44.2	1,433	2,063,313	912,294	1,013.0	924.2
6/18/2022	24.0	44.2	1,402	2,018,460	892,462	1,013.0	904.1
6/19/2022	24.0	44.2	1,390	2,002,228	885,285	1,013.0	896.8
6/20/2022	24.0	44.2	1,392	2,004,349	886,223	1,013.0	897.7
6/21/2022	24.0	44.2	1,403	2,019,748	893,032	1,013.0	904.6
6/22/2022	20.8	44.2	1,426	1,779,629	786,863	1,013.0	797.1
6/23/2022	24.0	44.2	1,412	2,033,607	899,159	1,013.0	910.8
6/24/2022	24.0	44.2	1,402	2,019,557	892,947	1,013.0	904.6
6/25/2022	24.0	44.2	1,391	2,003,021	885,636	1,013.0	897.1
6/26/2022	24.0	44.2	1,383	1,991,062	880,348	1,013.0	891.8
6/27/2022	23.8	44.2	1,510	2,153,757	952,284	1,013.0	964.7
6/28/2022	24.0	44.2	1,545	2,225,319	983,925	1,013.0	996.7
6/29/2022	24.0	44.2	1,514	2,180,578	964,143	1,013.0	976.7
6/30/2022	24.0	44.2	1,506	2,169,029	959,036	1,013.0	971.5
Totals/ Average:	710.60	44.2	1,504	64,116,934	28,349,302	1013.0	28,718
						Maximum:	1,147

Notes:

*Methane content determined from February 16, 2022 source test results.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

July-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
7/1/2022	24.0	44.2	1,503	2,164,640	957,096	1,013.0	969.5
7/2/2022	24.0	44.2	1,491	2,147,596	949,560	1,013.0	961.9
7/3/2022	24.0	44.2	1,497	2,155,714	953,149	1,013.0	965.5
7/4/2022	24.0	44.2	1,494	2,151,396	951,240	1,013.0	963.6
7/5/2022	24.0	44.2	1,459	2,100,646	928,801	1,013.0	940.9
7/6/2022	24.0	44.2	1,458	2,099,658	928,364	1,013.0	940.4
7/7/2022	24.0	44.2	1,453	2,091,902	924,934	1,013.0	937.0
7/8/2022	24.0	44.2	1,391	2,002,783	885,531	1,013.0	897.0
7/9/2022	24.0	44.2	1,357	1,954,066	863,990	1,013.0	875.2
7/10/2022	24.0	44.2	1,369	1,971,679	871,778	1,013.0	883.1
7/11/2022	21.3	44.2	1,448	1,847,576	816,906	1,013.0	827.5
7/12/2022	24.0	44.2	1,442	2,077,013	918,351	1,013.0	930.3
7/13/2022	24.0	44.2	1,388	1,999,405	884,037	1,013.0	895.5
7/14/2022	24.0	44.2	1,337	1,925,484	851,353	1,013.0	862.4
7/15/2022	23.8	44.2	1,322	1,887,820	834,700	1,013.0	845.6
7/16/2022	24.0	44.2	1,348	1,940,460	857,974	1,013.0	869.1
7/17/2022	24.0	44.2	1,327	1,911,333	845,096	1,013.0	856.1
7/18/2022	24.0	44.2	1,332	1,918,340	848,194	1,013.0	859.2
7/19/2022	24.0	44.2	1,355	1,951,847	863,009	1,013.0	874.2
7/20/2022	24.0	44.2	1,353	1,948,260	861,423	1,013.0	872.6
7/21/2022	24.0	44.2	1,355	1,950,787	862,540	1,013.0	873.8
7/22/2022	24.0	44.2	1,352	1,946,583	860,682	1,013.0	871.9
7/23/2022	24.0	44.2	1,346	1,938,011	856,892	1,013.0	868.0
7/24/2022	24.0	44.2	1,338	1,927,016	852,030	1,013.0	863.1
7/25/2022	24.0	44.2	1,327	1,911,572	845,202	1,013.0	856.2
7/26/2022	19.8	44.2	1,394	1,656,585	732,459	1,013.0	742.0
7/27/2022	24.0	44.2	1,397	2,011,987	889,600	1,013.0	901.2
7/28/2022	23.3	44.2	1,378	1,926,116	851,632	1,013.0	862.7
7/29/2022	24.0	44.2	1,371	1,973,650	872,649	1,013.0	884.0
7/30/2022	24.0	44.2	1,336	1,923,732	850,578	1,013.0	861.6
7/31/2022	24.0	44.2	1,318	1,898,166	839,274	1,013.0	850.2
Totals/ Average:	736.17	44.2	1,388	61,311,823	27,109,023	1013.0	27,461
						Maximum:	970

Notes:

*Methane content determined from February 16, 2022 source test results.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

August-22

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
8/1/2022	24.0	44.2	1,334	1,920,343	849,080	1,013.0	860.1
8/2/2022	24.0	44.2	1,354	1,950,277	862,315	1,013.0	873.5
8/3/2022	24.0	44.2	1,346	1,938,932	857,299	1,013.0	868.4
8/4/2022	24.0	44.2	1,339	1,928,717	852,782	1,013.0	863.9
8/5/2022	24.0	44.2	1,466	2,111,323	933,521	1,013.0	945.7
8/6/2022	24.0	44.2	1,553	2,236,143	988,711	1,013.0	1,001.6
8/7/2022	24.0	44.2	1,551	2,233,057	987,346	1,013.0	1,000.2
8/8/2022	23.1	44.2	1,554	2,156,895	953,671	1,013.0	966.1
8/9/2022	24.0	44.2	1,585	2,283,093	1,009,470	1,013.0	1,022.6
8/10/2022	24.0	44.2	1,597	2,299,155	1,016,571	1,013.0	1,029.8
8/11/2022	22.3	44.2	1,619	2,170,101	959,510	1,013.0	972.0
8/12/2022	24.0	44.2	1,642	2,364,512	1,045,469	1,013.0	1,059.1
8/13/2022	24.0	44.2	1,630	2,346,540	1,037,523	1,013.0	1,051.0
8/14/2022	24.0	44.2	1,628	2,344,165	1,036,473	1,013.0	1,049.9
8/15/2022	24.0	44.2	1,628	2,343,850	1,036,333	1,013.0	1,049.8
8/16/2022	24.0	44.2	1,628	2,344,249	1,036,510	1,013.0	1,050.0
8/17/2022	24.0	44.2	1,619	2,331,019	1,030,660	1,013.0	1,044.1
8/18/2022	24.0	44.2	1,612	2,321,666	1,026,525	1,013.0	1,039.9
8/19/2022	24.0	44.2	1,612	2,321,225	1,026,330	1,013.0	1,039.7
8/20/2022	24.0	44.2	1,607	2,314,500	1,023,356	1,013.0	1,036.7
8/21/2022	24.0	44.2	1,590	2,289,221	1,012,179	1,013.0	1,025.3
8/22/2022	24.0	44.2	1,591	2,291,636	1,013,247	1,013.0	1,026.4
8/23/2022	24.0	44.2	1,610	2,318,675	1,025,202	1,013.0	1,038.5
8/24/2022	24.0	44.2	1,608	2,315,558	1,023,824	1,013.0	1,037.1
8/25/2022	18.6	44.2	1,598	1,786,779	790,024	1,013.0	800.3
8/26/2022	23.5	44.2	1,631	2,302,762	1,018,166	1,013.0	1,031.4
8/27/2022	24.0	44.2	1,618	2,329,913	1,030,171	1,013.0	1,043.6
8/28/2022	24.0	44.2	1,604	2,310,273	1,021,487	1,013.0	1,034.8
8/29/2022	24.0	44.2	1,595	2,296,441	1,015,371	1,013.0	1,028.6
8/30/2022	22.1	44.2	1,331	1,765,047	780,416	1,013.0	790.6
8/31/2022	22.7	44.2	1,538	2,091,344	924,688	1,013.0	936.7
Totals/ Average:	732.40	44.2	1,555	68,357,411	30,224,229	1013.0	30,617
						Maximum:	1,059

Notes:

*Methane content determined from February 16, 2022 source test results.

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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH: **September-22**

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
9/1/2022	24.0	44.2	1,680	2,419,436	1,069,754	1,013.0	1,083.7
9/2/2022	24.0	44.2	1,638	2,358,828	1,042,956	1,013.0	1,056.5
9/3/2022	24.0	44.2	1,628	2,344,279	1,036,523	1,013.0	1,050.0
9/4/2022	24.0	44.2	1,634	2,352,315	1,040,076	1,013.0	1,053.6
9/5/2022	24.0	44.2	1,650	2,376,647	1,050,834	1,013.0	1,064.5
9/6/2022	24.0	44.2	1,674	2,409,968	1,065,567	1,013.0	1,079.4
9/7/2022	24.0	44.2	1,640	2,361,392	1,044,089	1,013.0	1,057.7
9/8/2022	24.0	44.2	1,665	2,397,160	1,059,904	1,013.0	1,073.7
9/9/2022	24.0	44.2	1,652	2,379,183	1,051,956	1,013.0	1,065.6
9/10/2022	24.0	44.2	1,606	2,313,180	1,022,773	1,013.0	1,036.1
9/11/2022	24.0	44.2	1,619	2,331,239	1,030,757	1,013.0	1,044.2
9/12/2022	24.0	44.2	1,609	2,317,070	1,024,493	1,013.0	1,037.8
9/13/2022	24.0	44.2	1,596	2,297,558	1,015,865	1,013.0	1,029.1
9/14/2022	24.0	44.2	1,580	2,275,143	1,005,954	1,013.0	1,019.0
9/15/2022	24.0	44.2	1,574	2,266,361	1,002,072	1,013.0	1,015.1
9/16/2022	24.0	44.2	1,614	2,324,272	1,027,677	1,013.0	1,041.0
9/17/2022	24.0	44.2	1,660	2,390,866	1,057,121	1,013.0	1,070.9
9/18/2022	24.0	44.2	1,592	2,291,820	1,013,328	1,013.0	1,026.5
9/19/2022	24.0	44.2	1,624	2,337,962	1,033,730	1,013.0	1,047.2
9/20/2022	24.0	44.2	1,622	2,334,971	1,032,407	1,013.0	1,045.8
9/21/2022	24.0	44.2	1,615	2,325,431	1,028,189	1,013.0	1,041.6
9/22/2022	24.0	44.2	1,647	2,371,458	1,048,540	1,013.0	1,062.2
9/23/2022	24.0	44.2	1,670	2,404,169	1,063,003	1,013.0	1,076.8
9/24/2022	24.0	44.2	1,681	2,420,787	1,070,351	1,013.0	1,084.3
9/25/2022	24.0	44.2	1,654	2,381,631	1,053,038	1,013.0	1,066.7
9/26/2022	24.0	44.2	1,646	2,370,055	1,047,920	1,013.0	1,061.5
9/27/2022	24.0	44.2	1,630	2,347,112	1,037,776	1,013.0	1,051.3
9/28/2022	24.0	44.2	1,629	2,346,334	1,037,432	1,013.0	1,050.9
9/29/2022	24.0	44.2	1,634	2,353,583	1,040,637	1,013.0	1,054.2
9/30/2022	24.0	44.2	1,655	2,383,691	1,053,949	1,013.0	1,067.7
Totals/ Average:	720.00	44.2	1,634	70,583,901	31,208,672	1013.0	31,614
						Maximum:	1,084

Notes:

*Methane content determined from February 16, 2022 source test results.

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

CH₄= methane

APPENDIX M

GAS MIGRATION MONITORING REPORTS



Guadalupe Rubbish Disposal Company, Inc.
 15999 Guadalupe Mines Road
 PO Box 20957
 San Jose, California 95160
 T: 408.268.1670

October 3, 2022

Ms. Becky Azevedo
 Guadalupe Recycling & Disposal Facility
 15999 Guadalupe Mines Road
 San Jose, CA 95120

**Re: Third Quarter 2022 Perimeter Gas and Methane in Structure Monitoring Report
 Guadalupe Recycling & Disposal Facility**

Dear Ms. Azevedo:

This report for the Guadalupe Recycling & Disposal Facility (GRDF) contains the results of the Third Quarter 2022 Perimeter Gas and Methane in Structure Monitoring conducted at the GRDF. All monitoring was conducted by GRDF 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.

Table 1 Monitoring Results

Probe ID	Time	CH ₄ (%)	Probe Pressure (in-H ₂ O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	9/14/2022;7:50 AM	0	0.04	Yes	Yes	
GUADGP02	9/14/2022;7:56 AM	0	-0.01	Yes	Yes	
GUADGP03	9/14/2022;8:04 AM	0	0.01	Yes	Yes	
GUADGP04	9/14/2022;8:47 AM	0	-1.23	Yes	Yes	
GUADGP05	9/14/2022;8:33 AM	0	-0.30	Yes	Yes	
GUADGP6S	9/14/2022;8:17 AM	0	-0.06	Yes	Yes	

Probe ID	Time	CH ₄ (%)	Probe Pressure (in-H ₂ O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP6D	9/14/2022;8:19 AM	0	-0.06	Yes	Yes	

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles
Instrument: TVA 1000

Date: 9/12/2022
Serial #: 0914635772

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	12:55 PM	0	
Scale House #1 Electrical Closet	1:00 PM	0	
Scale House #2 Occupied Space	12:45 PM	0	
Scale House #2 Electrical Closet	12:35 PM	0	
Scale House #3 Occupied Space	1:11 PM	0	
Scale House #3 Electrical Closet	1:15 PM	0	
Admin Office Crawl Space	12:20 PM	0	
Admin Office Electrical Closet	12:25 PM	0	
Admin Trailer	12:35 PM	0	
Security Trailer	9:50 AM	0	9-14-22 Monitored
MRF Scale House	9:55 AM	0	9-14-22 Monitored
MRF Building East Electrical	10:05 AM	0	9-14-22 Monitored
Maintenance Building Office Outlet	11:40 AM	0	
Maintenance Building Kitchen Outlet	11:35 AM	0	
Maintenance Building Office Outlet	11:45 AM	0	
Maintenance Building Electrical Room	11:50 AM	0	

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

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% CH₄ = 12,500 ppm CH₄

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 the monitoring events.

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

Perimeter Gas Monitoring

The Third Quarter 2022 monitoring was conducted by Carlos Cruz on September 14, 2022, using a GEM 5000. The static pressure of each probe was monitored using the GEM 5000. Following the measurement of the static pressure, the probes were monitored to determine methane concentration.

Facility Structures

Tino Robles used a Toxic Vapor Analyzer (TVA1000) to monitor buildings and structures to check for the presence of methane on September 12 and 14, 2022. The instrument was calibrated on September 12 and 14, 2022, using 500 parts per million by volume (ppm_v) 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. This event was conducted by Carlos Cruz on September 12 and 14, 2022.

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

General weather conditions at the time of monitoring are presented in Table 2.

Table 2 General Weather Conditions

Description	9/12/2022	9/14/2022
General Conditions	Partly Sunny	Partly Cloudy
Temperature (°F) Low/High	66/79	73/75
Wind Speed (mph)	3.7	14.9
Wind Direction	NNW	NNW
Barometric Pressure ("Hg)	29.97	29.9

CLOSING

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

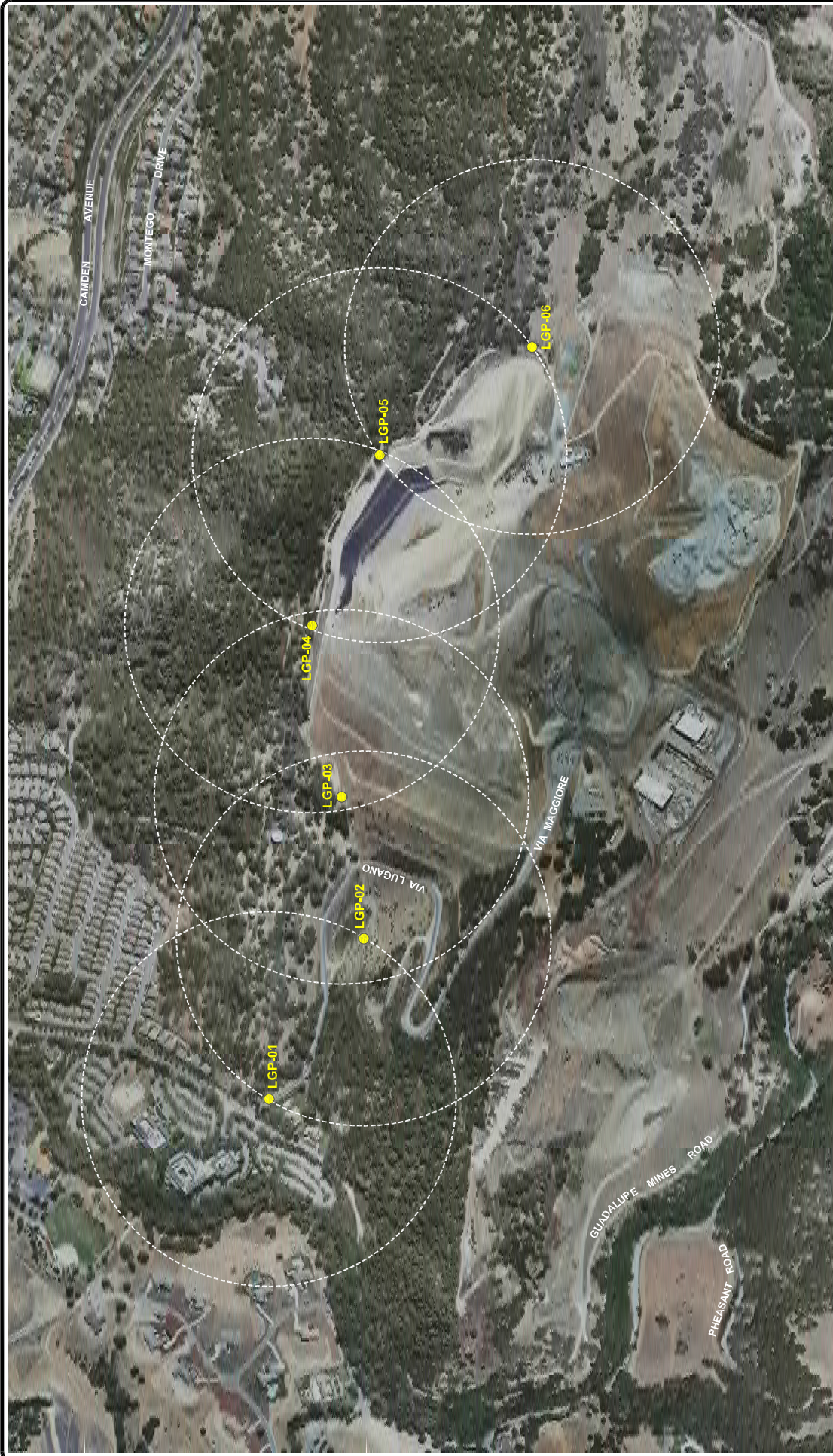
Thank you,

Waste Management,



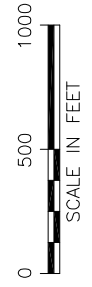
Rajan Phadnis
Environmental Protection Specialist

ATTACHMENT A
PROBE LOCATION MAP



LEGEND

- LGP-04 ● LFG MIGRATION MONITORING PROBE AND DESIGNATION
- 1000 FT RADIUS FROM LFG MIGRATION MONITORING PROBE



TITLE:

PERIMETER GAS PROBE LOCATIONS

LOCATION:

Guadalupe Rubbish Disposal Company, Inc.
15999 Guadalupe Mines Roads, San Jose CA

APPROVED	KH	FIGURE	1
DRAFTED	CP	PROJECT #	117-2402070.01
		DATE	10-7-08



ATTACHMENT B

FIELD DATA

Guadalupe Rubbish Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Cruz

Date: 9/14/22

Instrument: Gem5000 Serial #: G502649

Atmospheric Temperature (Deg F): 60

Barometric Pressure: 29.49 Inch of HG

Wind Speed: 5 mph Wind Direction: NW

Weather Condition: Sunny

Probe ID	Time	CH ₄ (%)	Probe Pressure (in-H ₂ O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	7:50 AM	0	0.04	Yes	Yes	
GUADGP02	7:56 AM	0	-0.01	Yes	Yes	
GUADGP03	8:04 AM	0	0.01	Yes	Yes	
GUADGP04	8:47 AM	0	-1.23	Yes	Yes	
GUADGP05	8:33 AM	0	-0.30	Yes	Yes	
GUADGP6S	8:17 AM	0	-0.06	Yes	Yes	
GUADGP6D	8:19 AM	0	-0.06	Yes	Yes	

Immediately notify compliance personnel of any readings in excess of 5 percent methane.

STRUCTURE FID MONITORING DATA

Analyst: Cruz

Date: 9/12/2022

Instrument: TVA 1000

Serial #: 0914635772

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	12:55 PM	0	
Scale House #1 Electrical Closet	1:00 PM	0	
Scale House #2 Occupied Space	12:45 PM	0	
Scale House #2 Electrical Closet	12:35 PM	0	
Scale House #3 Occupied Space	1:11 PM	0	
Scale House #3 Electrical Closet	1:15 PM	0	
Admin Office Crawl Space	12:20 PM	0	
Admin Office Electrical Closet	12:25 PM	0	
Admin Trailer	12:35 PM	0	
Security Trailer	9:50 AM	0	9-14-22 Monitored
MRF Scale House	9:55 AM	0	9-14-22 Monitored
MRF Building East Electrical	10:05 AM	0	9-14-22 Monitored
Maintenance Building Office Outlet	11:40 AM	0	
Maintenance Building Kitchen Outlet	11:35 AM	0	
Maintenance Building Office Outlet	11:45 AM	0	
Maintenance Building Electrical Room	11:50 AM	0	

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

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% CH₄ = 12,500 ppm CH₄



GAS DETECTOR CALIBRATION RECORD

LOCATION: Guadalupe Recycling and Disposal Inc.

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #0908401174M

CALIBRATED BY/INSTRUMENT USED: Sierra Monitor Corporation

CALIBRATION GAS EXPIRATION DATE: June 16, 2023

LOCATION	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED/ COMMENTS ON MONITOR CONDITION
Scale House #1	9-12-22	1500700093GAM	Yes	Good Condition
Scale House #2	9-12-22	1500700098GAM	Yes	Good Condition
Scale House #3	9-12-22	1500700101GAM	Yes	Good Condition
Admin. Trailer	9-12-22	1500700097GAM	Yes	Good Condition
Main Office	9-12-22	1500700090GAM	Yes	Good Condition
Materials Yard Trailer	9-14-22	1500700091GAM	Yes	Good Condition
Shop Office #1	9-12-22	1500700010GAM	Yes	Good Condition
Shop Office #2	9-12-22	1500700094GAM	Yes	Good Condition
Shop Office #3	9-12-22	1500700095GAM	Yes	Good Condition
Kitchen #4	9-12-22	1500700092GAM	Yes	Good Condition

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

**CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION
REPORT**

Landfill Name: GUADALUPE

Date: Sept 12, 2020

Time: 12:00 (PM)

Instrument Make: THERMO

Model: TVA-1000

S/N: 0914635772

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.
Stable Reading = 503 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): 0 ppm (b)

Calculate Background Value:

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

Performed By: Carlos Cruz

**CALIBRATION PROCEDURE AND BACKGROUND
DETERMINATION REPORT**

Landfill Name: GUADALUPE Date: Sept 14, 2022
Time: 9:50 AM _____ PM
Instrument Make: THERMO Model: TUA-1000 S/N: 0914635772

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

Calculate Background Value:

$$\frac{(a) + (b)}{2} \text{ Background} = \underline{1} \text{ ppm}$$

Performed By: 

CALIBRATION PRECISION TEST RECORD

Landfill Name: Quadalpe Date: 7/20/22

Expiration Date (3 months): 10/20/22

Time: 815 AM _____ PM

Instrument Make: TVA-1000 Model: Thermo S/N: 0914435772

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 503 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 504 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 500 ppm (f)

Calculate Precision:

$$\frac{\{|(500) - (b)| + \{|(500) - (d)| + \{|(500) - (f)|\}}}{3} \times \frac{1}{500} \times 100$$

_____ % (must be < than 10%)

Performed By: [Signature]

RESPONSE TIME TEST RECORD

Date: 7/20/22

Expiration Date (3 months): 10/20/22

Time: 8:15 AM _____ PM

Instrument Make: TVA-1000 Model: Thermo S/N: 091463577

Measurement #1:

Stabilized Reading Using Calibration Gas: 503 ppm
90% of the Stabilized Reading: 472 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 0 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 460 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: 503 ppm
90% of the Stabilized Reading: 470 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 4 seconds (c)

Calculate Response Time:

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

Performed By: Paul S



Guadalupe Rubbish Disposal Company, Inc.
 15999 Guadalupe Mines Road
 PO Box 20957
 San Jose, California 95160
 T: 408.268.1670

July 7, 2022

Ms. Becky Azevedo
 Guadalupe Recycling & Disposal Facility
 15999 Guadalupe Mines Road
 San Jose, CA 95120

**Re: Second Quarter 2022 Perimeter Gas and Methane in Structure Monitoring Report
 Guadalupe Recycling & Disposal Facility**

Dear Ms. Azevedo:

This report for the Guadalupe Recycling & Disposal Facility (GRDF) contains the results of the Second Quarter 2022 Perimeter Gas and Methane in Structure Monitoring conducted at the GRDF. All monitoring was conducted by GRDF 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.

Table 1 Monitoring Results

Probe ID	Time	CH ₄ (%)	Probe Pressure (in-H ₂ O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	6/7/2022; 2:33 PM	0	0.01	Yes	Yes	
GUADGP02	6/7/2022; 2:41 PM	0	-1.38	Yes	Yes	
GUADGP03	6/7/2022; 2:57 PM	0	0.05	Yes	Yes	
GUADGP04	6/7/2022; 2:15 PM	0	-1.13	Yes	Yes	
GUADGP05	6/7/2022; 2:09 PM	0	0.18	Yes	Yes	
GUADGP6S	6/7/2022; 6:34 AM	0	-0.02	Yes	Yes	
GUADGP6D	6/7/2022; 6:35AM	0	-0.02	Yes	Yes	

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles
Instrument: TVA 1000

Date: 6/13/2022
Serial #:0928538411

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	12:55 PM	0	
Scale House #1 Electrical Closet	1:00 PM	0	
Scale House #2 Occupied Space	12:45 PM	0	
Scale House #2 Electrical Closet	12:35 PM	0	
Scale House #3 Occupied Space	1:11 PM	0	
Scale House #3 Electrical Closet	1:15 PM	0	
Admin Office Crawl Space	12:20 PM	0	
Admin Office Electrical Closet	12:25 PM	0	
Admin Trailer	12:35 PM	0	
Security Trailer	12:40 PM	0	
MRF Scale House	1:20 PM	0	
MRF Building East Electrical	11:52 AM	0	
Maintenance Building Office Outlet	11:40 AM	0	
Maintenance Building Kitchen Outlet	11:35 AM	0	
Maintenance Building Office Outlet	11:45 AM	0	
Maintenance Building Electrical Box	11:50 AM	0	
Scale House #1 Occupied Space	12:55 PM	0	

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

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% CH₄ = 12,500 ppm CH₄

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 the monitoring events.

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

Perimeter Gas Monitoring

The Second Quarter 2022 monitoring was conducted by Tino Robles on June 7, 2022, using a GEM 5000. The static pressure of each probe was monitored using the GEM 5000. Following the measurement of the static pressure, the probes were monitored to determine methane concentration.

Facility Structures

Tino Robles used a Toxic Vapor Analyzer (TVA1000) to monitor buildings and structures to check for the presence of methane on June 13, 2022. The instrument was calibrated on June 13, 2022, using 500 parts per million by volume (ppm_v) 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. This event was conducted by Tino Robles on June 13 and 15, 2022.

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

General weather conditions at the time of monitoring are presented in Table 2.

Table 2 General Weather Conditions

Description	6/7/2022
General Conditions	Partly Sunny
Temperature (°F) Low/High	57/73
Wind Speed (mph)	5.0
Wind Direction	NNW
Barometric Pressure ("Hg)	29.95

CLOSING

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

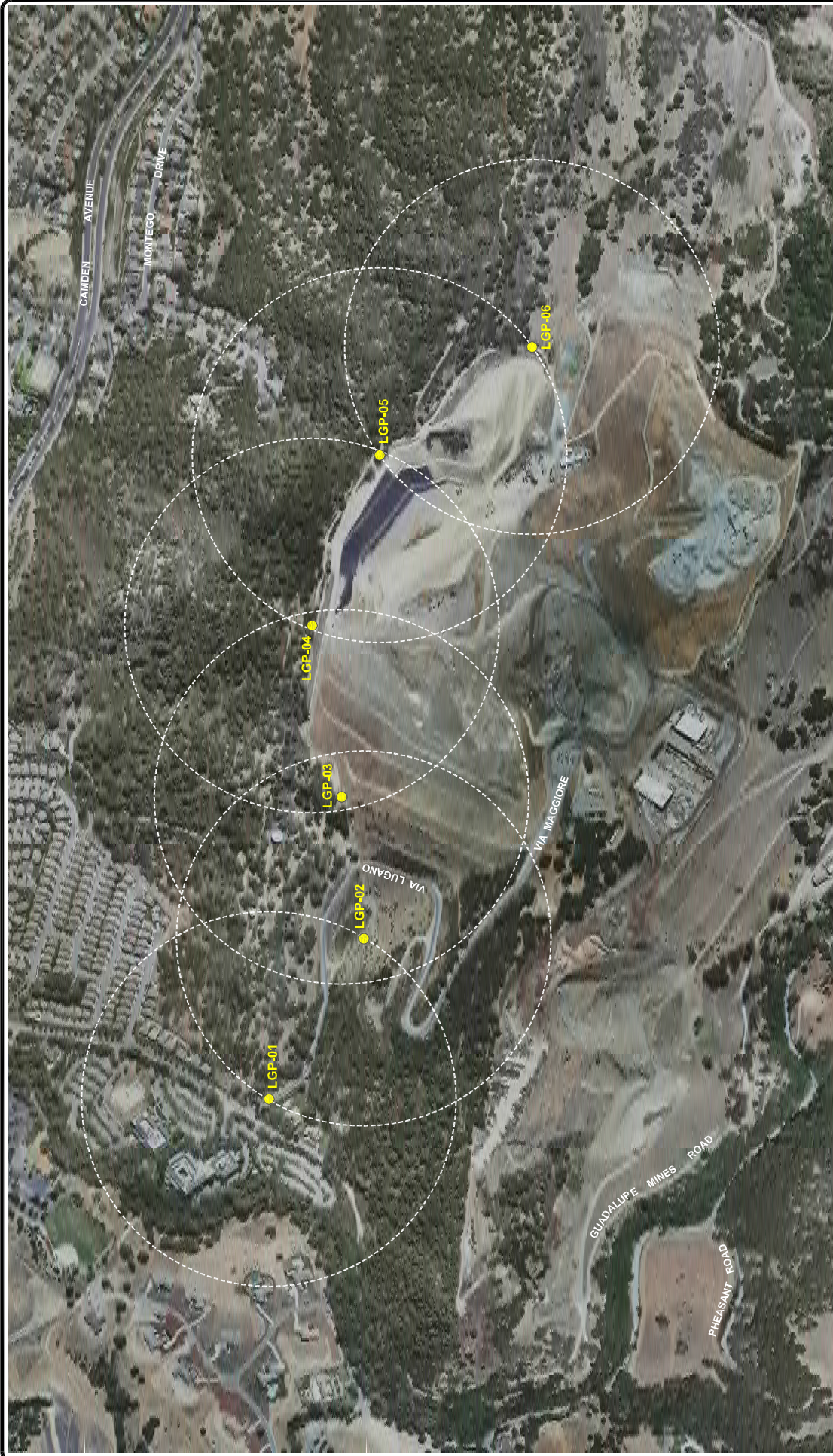
Thank you,

Waste Management,

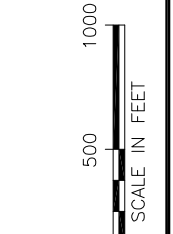


Rajan Phadnis
Environmental Protection Specialist

ATTACHMENT A
PROBE LOCATION MAP



TITLE: PERIMETER GAS PROBE LOCATIONS	
LOCATION: Guadalupe Rubbish Disposal Company, Inc. 15999 Guadalupe Mines Roads, San Jose CA	
APPROVED: KH	FIGURE: 1
DRAFTED: CP	PROJECT #: 117-2402070.01
DATE: 10-7-08	



- LEGEND**
- LGP-04 ● LFG MIGRATION MONITORING PROBE AND DESIGNATION
 - 1000 FT RADIUS FROM LFG MIGRATION MONITORING PROBE

ATTACHMENT B

FIELD DATA

Guadalupe Rubbish Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Robles

Date: 6/7/22

Instrument: Gem5000 Serial #: G502468

Atmospheric Temperature (Deg F): 74

Barometric Pressure: 30 Inch of HG

Wind Speed: 15 mph **Wind Direction:** NW

Weather Condition: Sunny

Probe ID	Time	CH ₄ (%)	Probe Pressure (in-H ₂ O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	2:33 PM	0	0.01	Yes	Yes	
GUADGP02	2:41 PM	0	-1.38	Yes	Yes	
GUADGP03	2:57 PM	0	0.05	Yes	Yes	
GUADGP04	2:15 PM	0	-1.13	Yes	Yes	
GUADGP05	2:09 PM	0	0.18	Yes	Yes	
GUADGP6S	6:34 AM	0	-0.02	Yes	Yes	
GUADGP6D	6:35AM	0	-0.02	Yes	Yes	

Immediately notify compliance personnel of any readings in excess of 5 percent methane.

STRUCTURE FID MONITORING DATA

Analyst: Robles

Date: 6/13/2022

Instrument: TVA 1000

Serial #: 0928538411

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	12:55 PM	0	
Scale House #1 Electrical Closet	1:00 PM	0	
Scale House #2 Occupied Space	12:45 PM	0	
Scale House #2 Electrical Closet	12:35 PM	0	
Scale House #3 Occupied Space	1:11 PM	0	
Scale House #3 Electrical Closet	1:15 PM	0	
Admin Office Crawl Space	12:20 PM	0	
Admin Office Electrical Closet	12:25 PM	0	
Admin Trailer	12:35 PM	0	
Security Trailer	12:40 PM	0	
MRF Scale House	1:20 PM	0	
MRF Building East Electrical	11:52 AM	0	
Maintenance Building Office Outlet	11:40 AM	0	
Maintenance Building Kitchen Outlet	11:35 AM	0	
Maintenance Building Office Outlet	11:45 AM	0	
Maintenance Building Electrical Box	11:50 AM	0	

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

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% CH₄ = 12,500 ppm CH₄



GAS DETECTOR CALIBRATION RECORD

LOCATION: Guadalupe Recycling and Disposal Inc.

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #0908401174M

CALIBRATED BY/INSTRUMENT USED: / Sierra Monitor Corporation

CALIBRATION GAS EXPIRATION DATE: June 16, 2023

LOCATION	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED/ COMMENTS ON MONITOR CONDITION
Scale House #1	6-15-22	1500700093GAM	Yes	Good Condition
Scale House #2	6-15-22	1500700098GAM	Yes	Good Condition
Scale House #3	6-15-22	1500700101GAM	Yes	Good Condition
Admin. Trailer	6-15-22	1500700097GAM	Yes	Good Condition
Main Office	6-13-22	1500700090GAM	Yes	Good Condition
MRF Scale House	6-13-22	1500700099GAM	Yes	Good Condition
Materials Yard Trailer	6-13-22	1500700091GAM	Yes	Good Condition
Shop Office #1	6-13-22	1500700010GAM	Yes	Good Condition
Shop Office #2	6-13-22	1500700094GAM	Yes	Good Condition
Shop Office #3	6-13-22	1500700095GAM	Yes	Good Condition
Kitchen #4	6-13-22	1500700092GAM	Yes	Good Condition

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

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Guadalupe Date: 6/13/22
Time: 7:10 AM _____ PM
Instrument Make: TEVA 6000B Model: Thermal 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 = 504 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

Calculate Background Value:

$$\frac{(a) + (b)}{2} \text{ Background} = \underline{1} \text{ ppm}$$

Performed By: 

CALIBRATION PRECISION TEST RECORD

Landfill Name: Krbx Date: 4/7/22
Expiration Date (3 months): 7/7/22
Time: 6:45 AM _____ PM
Instrument Make: TVA100B Model: Thermal S/N: 0928538911

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)
Meter Reading for Calibration Gas: 501 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)
Meter Reading for Calibration Gas: 499 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)
Meter Reading for Calibration Gas: 502 ppm (f)

Calculate Precision:

$$\frac{|(500) - (b)| + |(500) - (d)| + |(500) - (f)|}{3} \times \frac{1}{500} \times 100$$

_____ % (must be < than 10%)

Performed By: *[Signature]*

RESPONSE TIME TEST RECORD

Date: 4/7/22

Expiration Date (3 months): 7/7/22

Time: 645 AM _____ PM

Instrument Make: TVA 1000B Model: THERMAL S/N: 092853411

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: 5 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 498 ppm
90% of the Stabilized Reading: 448 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 4 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 451 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 5 seconds (c)

Calculate Response Time:

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

Performed By: R. Jones

APPENDIX N

SOURCE TEST SUMMARY AND RESULTS

Guadalupe Rubbish Disposal Facility (GRDF)

Facility # 3294

Compliance Emissions Test Report #20122 Landfill Gas Control Flare- Source A-9

Located at:

15999 Guadalupe Mines Road,
San Jose, CA

Prepared For:

Dave Bearden
SCS Engineers
3117 Fite Circle, Suite 108
Sacramento, CA 95827
(916) 361-1297
dbearden@scsengineers.com

For Submittal To:

Attn: Gloria Espena & Marco Hernandez
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
gespena@baaqmd.gov & mherandez@baaqmd.gov
sourcetest@baaqmd.gov

Testing Performed On:

April 29th, 2020

Final Report Submitted On:

June 24th, 2020

Performed and Reported by:

Blue Sky Environmental, Inc.
624 San Gabriel Avenue
Albany, CA 94706
bluesky@blueskyenvironmental.com
Office (510) 525 1261
Cell (510) 508 3469

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 (510) 508-3469.



Guy Worthington
Principal Project Manager

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SECTION 1. INTRODUCTION

1.1. Summary

Blue Sky Environmental, Inc was contracted to perform emissions testing on the A-9 Landfill Gas (LFG) Flare at Guadalupe Rubbish Disposal Facility. (GRDF), 15999 Guadalupe Mines Road, San Jose, California. This report presents the results of the test program. Table 1 summarizes the source test information. Table 2 summarizes the results compared to the emission limits. The flare met all compliance emission criteria when tested with Condensate On and Condensate Off.

Table 1. Source Test Information

Test Location:	Guadalupe Rubbish Facility (GRDF), 15999 Guadalupe Mines Road, San Jose, California, 95120, Site Number 3294
Source Contact:	Becky Azeredo (408) 960 - 0769
Source Tested:	Enclosed Gas Flare (A-9)
Source Test Date:	April 29 th , 2020
Test Objective:	Determine Compliance with BAAQMD Regulation 8, Rule 34, AB32 Landfill Methane Rule and BAAQMD Permit Condition 6188
Test Performed By:	Blue Sky Environmental, Inc 624 San Gabriel Ave., Albany, CA 94706 Guy Worthington (510) 508-3469 Blueskyenvironmental@yahoo.com
Test Parameters:	Landfill Gas O ₂ , N ₂ , CO ₂ , BTU, THC, CH ₄ , NMOC, HHV, F-Factor, Sulfur Species, Volumetric Flow rate Flare Emissions THC, CH ₄ , NMOC, NO _x , CO, O ₂ , SO ₂ , Volumetric Flow rate.

Table 2. Compliance Summary

<u>Condensate On</u>	Average Test Result	Permit Limit	Compliance Status
NO _x , ppmvd @ 15% O ₂	9.5	16	In Compliance
CO, ppmvd @ 15% O ₂	<3.3	134	In Compliance
SO ₂ , ppmvd	55.4	300	In Compliance
NMOC, (ppmvd @ 3% O ₂ as CH ₄)	<0.5	30	In Compliance
NMOC Destruction Efficiency	>99.89	98%	In Compliance
Methane Destruction Efficiency	>99.998	99%	In Compliance
<u>Condensate Off</u>	Average Test Result	Permit Limit	Compliance Status
NO _x , ppmvd @ 15% O ₂	8.4	16	In Compliance
CO, ppmvd @ 15% O ₂	<3.4	134	In Compliance
SO ₂ , ppmvd	46.4	300	In Compliance
NMOC, (ppmvd @ 3% O ₂ as CH ₄)	<1.6	30	In Compliance
NMOC Destruction Efficiency	>99.65	98%	In Compliance
Methane Destruction Efficiency	>99.996	99%	In Compliance

SECTION 2. SOURCE TEST PROGRAM

2.1. Overview

This performance test was conducted to demonstrate that the LFG flare is operating in accordance with the Bay Area Air Quality Management District (BAAQMD) Title V Permit for Site Number 3294 and BAAQMD Regulation 8, Rule 34. Testing was also performed to demonstrate compliance with the State Landfill Methane Gas Rule AB32 for Flare performance with Condensate On and Condensate Off.

2.2. Pollutants Tested

The following EPA and ASTM sampling and analytical methods were used:

EPA Method 1	Sample and Traverse Point Determination
EPA 3A	O ₂ , CO ₂
EPA 10	CO
EPA 25A	THC, CH ₄ and NMOC
EPA 7E	NO _x
EPA 18	CH ₄
EPA 19	Flow Rate Calculation, DSCFM
EPA 25C	LFG Gas analysis for NMOC by GC
EPA 4 part 4.16	Moisture Calculated
ASTM 1945/3588	LFG Gas analysis for BTU and F-Factor
ASTM 5504	Sulfur Species, H ₂ S and TRS

2.3. Test Date(s)

Testing was conducted on April 29th, 2020.

2.4. Sampling and Observing Personnel

Testing was performed by Guy Worthington and Timothy Eandi representing Blue Sky Environmental.

Dave Bearden of SCS Engineers was present to operate the Flare and assist in coordinating testing and the collection of process data during testing.

The BAAQMD was notified of the test in a plan submitted by SCS Engineers on behalf of Waste Management dated April 8th, 2020 (NST #5928). A Source Test Protocol acknowledgement was received on April 8th, 2020, but no agency observers were present to witness the testing. A copy of the source test protocol and related email correspondence can be found in Appendix I.

2.5. Source/Process Description

The enclosed LFG flare at GRDF consists of a 70 million British Thermal Units per hour (MMBtu/hr) multiple nozzle burner manufactured by LFG Specialties, Inc. The flare shell is 35 feet high and 9.5 feet in diameter. The inside diameter (ID) is approximately 8.5 feet.

The flare was operated at an average 901 standard cubic feet per minute (SCFM). The flare set-point was established at 1,645 Degrees Fahrenheit (°F). Methane quality is typically about 46-49 percent (%), and the Oxygen content typically around 1% or less. 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 operating temperature and the LFG flow rate records are contained in Appendix-F. The condensate injection rate was 0.9 gallons per minute (gpm).

The flare was operated at 1,642 - 1,643 °F average (avg.). The average LFG flow rate ranged between 885 – 919 standard cubic feet per minute (scfm).

The LFG methane content ranged between 49.4 and 50.2 percent (%). The average LFG Methane content of the six test runs was 49.9%.

SECTION 3. SAMPLING AND ANALYSIS PROCEDURES

3.1. Port location

The Flare sampling was conducted in the 8 feet 6 inch diameter ID stack (102”), via ports approximately 30 feet above grade, accessible by boom-lift. Four, 4-inch flange ports are available approximately 5 stack diameters downstream from the burners and ~2 stack diameters upstream from the exit.

3.2. Point description/Labeling – ports/stack

Blue Sky Environmental, Inc. conducted two perpendicular 8-point traverses per BAAQMD ST-18 and found O₂ stratification about 10% therefore subsequent CEM sampling was conducted with 8-point traverses per port to achieve the required (BAAQMD ST-7, 6.6) representative sampling of the emissions.

The traverse points for the exhaust of the flare with 8 feet 6 inch (102”) diameter plus 4 inch ports were 7.3, 14.7, 23.8, 36.9, 73.1, 86.2, 95.3 and 102.7 inches.

3.3. Sample train description

Sampling system diagrams are included in the appendices. Additional descriptive information is included in the following section.

3.4. Sampling procedure description

Three, 30-minute minimum test runs were conducted with the Condensate Injection Off, and three 30-minute test runs with the Condensate Injection On.

Sampling & Traverse Points Selection by EPA Method 1. 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 (O₂, CO₂), 7E (NO_x) and 10 (CO) are 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 CEM test van. The sampling system consists of a stainless steel sample probe, a heated Teflon sample line, glass-fiber particulate filter, glass moisture-knockout condensers in ice, followed by thermoelectric coolers, Teflon sample transfer tubing, diaphragm pump and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 PSI was provided to each analyzer to avoid pressure variable response differences. The entire sampling system was leak checked prior to and at the end of the sampling program. The sampling and analytical system (for EPA Methods) was 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 usually use the calibration gas that most closely matches the stack gas effluent. Along with the Sampling System Bias, the Zero and Calibration Drift values were determined for each test. 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. In addition, the NO_x analyzer NO₂ to NO conversion efficiency check defers to EPA Method 20 section 5.6 for the criteria and procedure.

All calibration gases are EPA Protocol #1. The analyzer data recording system consists of a Honeywell DPR3000 strip chart recorder supported by a Data Acquisition System (DAS).

System Performance Criteria

Instrument Linearity	≤2% Full Scale
Instrument Bias	≤5% Full Scale
System Response Time	≤± 2 minutes
NO _x Converter Efficiency (EPA 7E)	≥ 90%
Instrument Zero Drift	≤± 3% Full Scale
Instrument Span Drift	≤± 3% Full Scale

EPA Method 25A Total Hydrocarbons, Methane and Non-Methane Hydrocarbons.

EPA Method 25A employs a heated FID, Teflon sample gas transfer lines to provide a continuous sample to the heated FID Hydrocarbon Analyzer. Heated lines were used if necessary to avoid moisture or hydrocarbon condensation. Calibration gases are selected to fall within 25-35%, 45-55% and 80-90% of Range for Total Hydrocarbon.

Methane in the exhaust is usually determined per EPA Methods (M18). An integrated tedlar bag or SUMMA canister is collected and either analyzed by GC or onsite using a charcoal scrubber to remove the non-methane organics, and determining the difference between the total hydrocarbon and non-methane hydrocarbon concentrations. Where the total hydrocarbon numbers are well below detection limits and less than 5 ppm for example, the methane may not be determined separately.

EPA Method 18 (VOC or Methane) is used to measure the Methane and ethane to subtract from the THC of Method 25A. This method is used to determine emissions of volatile organics or Methane analyzed by gas chromatograph/mass spectroscopy (GC/MS). Gaseous emissions are drawn through a teflon sample line to a pre-evacuated 6-Liter SUMMA canister. Sample is drawn into the canister by pre-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 between 20 to 60 minutes. The canister samples are taken to a laboratory and analyzed within 72 hours.

To prevent moisture condensation, a condenser may be used before the canister and the condensate analyzed separately, or the canister can be partially pre-filled with a known quantity zero air or nitrogen, prior to collecting the gas sample, or the system can be heated and kept heated above the condensation point until analysis.

Method 19 (gas) was used to determine stack gas volumetric flow rates using oxygen based F-factors. F-factors are ratios of combustion gas volumes generated from heat input. The heating value of the fuel in Btu per cubic foot is determined from analysis of the fuel gas samples using ASTM D1945/3588 gas chromatography analytical procedures. Total fuel consumption for each source is monitored by a dedicated fuel gas meter. 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 were used to determine emission rates.

Fuel Analysis per ASTM D-1945/3588 and ASTM D-5504 are used for fuel sampling and analysis for F-Factor and BTU determination, fixed gas analysis O₂, CO₂, CO, N₂, H₂, CH₄, C₂-C₆+, and sulfur compounds, including H₂S. Samples may be collected in tedlar bags and analyzed within 24 hours or Silco SUMMA canisters and analyzed within 72 hours. Hydrogen Sulfide, Carbonyl Sulfide, Sulfur Dioxide, Methyl Mercaptan, Ethyl Mercaptan, Dimethyl Sulfide, Carbon Disulfide, Isopropyl Mercaptan, tert-Butyl Mercaptan, n-Propyl Mercaptan, Methylethylsulfide, sec-Butyl Mercaptan, Thiophene, iso-Butyl Mercaptan, Diethyl Sulfide, n-Butyl Mercaptan, Dimethyl Disulfide, 2-Methylthiophene, 3-Methylthiophene, Tetrahydrothiophene, Bromothiophene, Thiophenol, Diethyl Disulfide, Total Unidentified Sulfurs, Total Reduced Sulfurs as H₂S.

EPA Method 4-16.4 is an acceptable alternative to EPA Method 4 for the determination of moisture from combustion using F-factors. In this case the mole fraction of the 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 from 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 from the hydrogen in the fuel. To determine the moisture in the fuel, the sum of the raw fuel analysis before normalization, is subtracted from 100.

ASTM Method 1945/5504/25C Concurrent with the exhaust sampling, Blue Sky collected a total of six 6-L Silco Canisters of the LFG for analysis. The canisters were equipped with a 30 minute flow controller and vacuum gauge to aim for a final internal vacuum of the canister of approximately above 5" of Hg. The samples were collected directly from the inlet line. All the samples were analyzed for NMOC, HHV, F-Factor, Fixed Gases, Sulfur Species (including H₂S and TRS). The inlet volumetric flow rate was continuously measured and recorded by the LFG Flowmeter.

3.5. Instrumentation and Analytical procedures

The following continuous emissions analyzers were used:

Instrumentation	Parameter	Principle
TECO 42C	NO _x	Chemiluminescence
TECO 42C	NO	Chemiluminescence
TECO 48C	CO	GFC/IR
Ratfisch RS-55	THC	FID
Fuji ZRH	CO ₂	IR
Servomex 1440	O ₂	Paramagnetic

The instrument response was recorded on strip charts, but the analyzer data collected on the DAS was used for reporting the results. The averages were corrected for drift using EPA Method 7E equations.

3.6. Comments: Limitations and Data Qualifications

The measured emissions meet the Permit required limits, no deviations from the protocol or abnormalities during the test were observed.

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. Calibration Certifications and Quality Assurance Records**
- H. Sample Train Configuration and Stack Diagrams**
- I. Related Correspondence (Source Test Plan)**
- J. BAAQMD Permit Conditions**
- K. Flare Flow Meter Calibration Document**

A
Tabulated Results

TABLE #1

**WM - GRDF
Flare A-9
LFG - Condensate On**

RUN	1	2	3	AVERAGE	LIMITS
Test Date	4/29/20	4/29/20	4/29/20		
Test Time	1018-1100	1127-1205	1231-1309		
Standard Temp., °F	70	70	70		
Flare Temperature, °F Average	1,643	1,642	1,643	1,643	
Condensate Injection, gpm	0.9	0.9	0.9	0.9	
Fuel Flow Rate, SCFM	885	901	919	902	
Fuel Heat Input, MMBTU/Hr	26.3	26.7	27.4	26.8	
Exhaust Flow Rate, DSCFM (Method 19)	9,850	10,127	10,365	10,114	
Oxygen, O ₂ , %	12.0	12.1	12.1	12.1	
Carbon Dioxide, CO ₂ , %	7.9	7.9	7.8	7.9	
Water Vapor, H ₂ O, % M4.16	5.6	5.4	5.6	5.5	
NO, ppm	14.6	14.6	14.5	14.6	
NO ₂ , ppm	<1.0	<1.0	<1.0	<1.0	
NO ₂ /NO	<0.07	<0.07	<0.07	<0.07	
NOx, ppm	14.2	14.2	14.3	14.2	
NOx, ppm @ 15% O₂	9.4	9.5	9.6	9.5	16
NOx, lbs/hr	0.99	1.03	1.06	1.03	
CO, ppm	<5.0	<5.0	<5.0	<5.0	
CO, ppm @ 15% O₂	<3.3	<3.3	<3.3	<3.3	134
CO, lbs/hr	<0.21	<0.22	<0.23	<0.22	
Total Sulfurs as H ₂ S in fuel, ppm	678	641	544	621	
SO₂ calculated emission, ppm	60.9	57.0	48.3	55.4	300
THC, ppm (25A) wet	<1.0	<1.0	<1.0	<1.0	
THC, ppm dry	<1.1	<1.1	<1.1	<1.1	
THC, lbs/hr as CH ₄	<0.03	<0.03	<0.03	<0.03	
CH ₄ , ppm (M18)	0.9	0.8	0.7	0.8	
CH ₄ , lbs/hr	0.02	0.02	0.02	0.02	
NMOC, ppm as CH ₄	<0.2	<0.3	<0.4	<0.3	
NMOC, lbs/hr as CH ₄	<0.00	<0.01	<0.01	<0.01	
NMOC, ppm @ 3% O₂ as CH₄	<0.3	<0.5	<0.7	<0.5	30
INLET TNMOC (Method 25C)	2,424	2,843	2,732	2,666	
INLET NMOC, lbs/hr as CH ₄	5.3	6.4	6.2	6.0	
NMOC Removal Efficiency	99.93%	99.90%	99.85%	99.89%	98
INLET CH ₄ , ppm	495,000	494,000	497,000	495,333	
INLET CH ₄ , lbs/hr	1,088	1,104	1,134	1,109	
CH₄ Removal Efficiency	>99.998%	>99.998%	>99.998%	>99.998%	99
INLET THC (TOC), ppm as CH ₄	497,424	496,843	499,732	498,000	
INLET THC (TOC), lbs/hr as CH ₄	1,093	1,111	1,141	1,115	
THC (TOC) Removal Efficiency	99.998%	99.998%	99.998%	99.998%	

< Value = 2% of Analyzer Range

WHERE,

ppm = Parts Per Million Concentration
 Lbs/hr = Pound Per Hour Emission Rate
 Tstd. = Standard Temp. (°R = °F+460)
 MW = Molecular Weight
 DSCFM = Dry Standard Cubic Feet Per Minute
 NOx = Oxides of Nitrogen as NO₂ (MW = 46)
 CO = Carbon Monoxide (MW = 28)
 TOC = THC = Total Organic Carbon as Methane including CH₄ (MW = 16)
 THC = Total Hydrocarbons as Methane (MW = 16)
 NMOC = Total Non-Methane Organic Carbon as Methane (MW = 16)
 SO₂ = Sulfur Dioxide as SO₂ (MW = 64.1)

CALCULATIONS,

PPM @ 15% O₂ = ppm * 5.9 / (20.9 - %O₂)
 PPM @ 3% O₂ = ppm * 17.9 / (20.9 - %O₂)
 Lbs/hr = ppm x 8.223 E-05 x DSCFM x MW / Tstd. °R
 Lbs/day = Lbs/hr * 24
 Removal Efficiency = (inlet lbs/hr- outlet lbs/hr) / inlet lbs/hr
 SO₂ emission ppm = H2S in fuel * Fuel Flow/Stack Gas Flow

TABLE #2

**WM - GRDF
Flare A-9
LFG - Condensate Off**

RUN	1	2	3	AVERAGE	LIMITS
Test Date	4/29/20	4/29/20	4/29/20		
Test Time	1346-1428	1448-1527	1604-1642		
Standard Temp., °F	70	70	70		
Flare Temperature, °F Average	1,642	1,643	1,643	1,643	
Condensate Injection, gpm	0.0	0.0	0.0	0.0	
Fuel Flow Rate, SCFM	913	891	894	899	
Fuel Heat Input, MMBTU/Hr	27.5	26.9	27.0	27.1	
Exhaust Flow Rate, DSCFM (Method 19)	10,738	10,506	10,427	10,557	
Oxygen, O ₂ , %	12.4	12.4	12.3	12.3	
Carbon Dioxide, CO ₂ , %	7.6	7.6	7.6	7.6	
Water Vapor, H ₂ O, % M4.16	5.5	5.5	5.7	5.6	
NO, ppm	12.1	12.3	12.6	12.3	16
NO ₂ , ppm	<1.0	<1.0	<1.0	<1.0	
NO ₂ /NO	<0.08	<0.08	<0.08	<0.08	
NOx, ppm	11.9	12.1	12.4	12.1	
NOx, ppm @ 15% O₂	8.2	8.4	8.5	8.4	
NOx, lbs/hr	0.91	0.91	0.92	0.91	
CO, ppm	<5.0	<5.0	<5.0	<5.0	134
CO, ppm @ 15% O₂	<3.5	<3.5	<3.4	<3.4	
CO, lbs/hr	<0.23	<0.23	<0.23	<0.23	
Total Sulfurs as H ₂ S in fuel, ppm	616	583	436	545	300
SO₂ calculated emission, ppm	52.4	49.5	37.4	46.4	
THC, ppm (25A) wet	<1.0	<1.0	<1.0	<1.0	30
THC, ppm dry	<1.1	<1.1	<1.1	<1.1	
THC, lbs/hr as CH ₄	<0.03	<0.03	<0.03	<0.03	
CH ₄ , ppm (M18)	1.5	1.9	1.9	1.8	
CH ₄ , lbs/hr	0.04	0.05	0.05	0.05	
NMOC, ppm as CH ₄	<0.5	<0.9	<0.9	<0.8	
NMOC, lbs/hr as CH ₄	<0.01	<0.02	<0.02	<0.02	
NMOC, ppm @ 3% O₂ as CH₄	<1.0	<1.9	<1.9	<1.6	
INLET TNMOC (Method 25C)	2,454	2,625	2,608	2,562	
INLET NMOC, lbs/hr as CH ₄	5.6	5.8	5.8	5.7	
NMOC Removal Efficiency	99.76%	99.60%	99.60%	99.65%	98
INLET CH ₄ , ppm	501,000	502,000	502,000	501,667	99
INLET CH ₄ , lbs/hr	1,135.3	1,110.9	1,113.7	1,120	
CH₄ Removal Efficiency	>99.996%	>99.996%	>99.996%	>99.996%	
INLET THC (TOC), ppm as CH ₄	503,454	504,625	504,608	504,229	
INLET THC (TOC), lbs/hr as CH ₄	1,141	1,117	1,119	1,126	
THC (TOC) Removal Efficiency	99.998%	99.998%	99.998%	99.998%	

< Value = 2% of Analyzer Range

WHERE,

ppm = Parts Per Million Concentration
 Lbs/hr = Pound Per Hour Emission Rate
 Tstd. = Standard Temp. (°R = °F+460)
 MW = Molecular Weight
 DSCFM = Dry Standard Cubic Feet Per Minute
 NOx = Oxides of Nitrogen as NO₂ (MW = 46)
 CO = Carbon Monoxide (MW = 28)
 TOC = THC = Total Organic Carbon as Methane including CH₄ (MW = 16)
 THC = Total Hydrocarbons as Methane (MW = 16)
 NMOC = Total Non-Methane Organic Carbon as Methane (MW = 16)
 SO₂ = Sulfur Dioxide as SO₂ (MW = 64.1)

CALCULATIONS,

PPM @ 15% O₂ = ppm * 5.9 / (20.9 - %O₂)
 PPM @ 3% O₂ = ppm * 17.9 / (20.9 - %O₂)
 Lbs/hr = ppm x 8.223 E-05 x DSCFM x MW / Tstd. °R
 Lbs/day = Lbs/hr * 24
 Removal Efficiency = (inlet lbs/hr- outlet lbs/hr) / inlet lbs/hr
 SO₂ emission ppm = H2S in fuel * Fuel Flow/Stack Gas Flow

Guadalupe Rubbish Disposal

BAAQMD Facility 3294

Compliance Test Report #22050

Landfill Gas Flare A-17

Located at:

Guadalupe Recycling and Disposal Facility (GRDF)

15999 Guadalupe Mines Road

San Jose, CA 95120

Prepared for:

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Testing Performed on:

February 16th, 2022

Final Report Submitted on:

April 8th, 2022

Performed and Reported by:

Blue Sky Environmental, Inc.

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REVIEW AND CERTIFICATION

Team Leader:

The work performed herein was conducted under my supervision, and I certify that:

- a) the details and results contained within this report are to the best of my knowledge an authentic and accurate representation of the test program,
- b) that the sampling and analytical procedures and data presented in the report are authentic and accurate,
- c) that all testing details and conclusions are accurate and valid, and
- d) that the production rate and/or heat input rate during the source test are reported accurately.

If this report is submitted for compliance purposes, it should only be reproduced in its entirety. If there are any questions concerning this report, please contact me at (810) 923-3181.

Jeramie Richardson
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 emissions testing for at the Guadalupe Recycling and Disposal Facility (GRDF) in San Jose, California. The source test was conducted to demonstrate that landfill gas Flare A-17 is operating in compliance with Bay Area Air Quality Management District (BAAQMD) authority to construct application 21927 for Facility 3294. Results of the test program are presented in this report. The source test information is summarized in Table 1-1. Test results derived from the source test are summarized in Table 1-2. Results for individual test runs are provided in Appendix A. The flare met all compliance emission criteria.

Table 1-1 Source Test Information

Test Location:	Guadalupe Recycling and Disposal Facility (GRDF) 15999 Guadalupe Mines Road, San Jose, CA 95120
Source Contact:	Becky Acevedo, Waste Management (408) 779-2206
Source Tested:	Flare A-17 – 120 MMBtu/hr LFG Specialties, Inc. enclosed landfill gas flare
Source Test Date:	February 16 th , 2022
Test Objective:	Determine compliance with condition 25320 of Bay Area Air Quality Management District (BAAQMD) authority to construct application 21927 for Facility 3294; BAAQMD 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 Jeramie Richardson (810) 923-1198 jrichardson@blueskyenvironmental.com
Test Parameters:	<u>Landfill Gas</u> O ₂ , N ₂ , CO ₂ , Btu, THC, CH ₄ , NMOC, HHV, F-factor, sulfur species, volumetric flow rate <u>Flare Emissions</u> THC, CH ₄ , NMOC, NO _x , CO, O ₂ , SO ₂ , moisture, volumetric flow rate



Table 1-2 Compliance Summary

Flare A-17 Condensate ON

Emission Parameter	Average Results (Condensate ON)	Permit Limit	Compliance Status
NO _x , ppmvd @ 15% O ₂	12.7	15	In Compliance
CO, ppmvd @ 15% O ₂	3.7	81	In Compliance
SO ₂ , ppmvd	70.8	300	In Compliance
NMOC, ppmvd @ 3% O ₂	<2.2	30	In Compliance
NMOC Destruction Efficiency, %	>99.46%	>98%	In Compliance
CH ₄ Destruction Efficiency, %	>99.97%	>99%	In Compliance

Flare A-17 Condensate OFF

Emission Parameter	Average Results (Condensate OFF)	Permit Limit	Compliance Status
NO _x , ppmvd @ 15% O ₂	9.6	15	In Compliance
CO, ppmvd @ 15% O ₂	4.8	81	In Compliance
SO ₂ , ppmvd	84.8	300	In Compliance
NMOC, ppmvd @ 3% O ₂	<2.3	30	In Compliance
NMOC Destruction Efficiency, %	>99.46%	>98%	In Compliance
CH ₄ Destruction Efficiency, %	>99.97%	>99%	In Compliance



SECTION 2. SOURCE TEST PROGRAM

2.1. Overview

This source test was performed to demonstrate that landfill gas Flare A-17 (previously A-14) is operating in compliance with NO_x, CO, and NMOC emission limits specified in condition 25320 of Bay Area Air Quality Management District (BAAQMD) authority to construct application 21927 for Facility 3294, and BAAQMD Regulation 8, Rule 34. This testing also satisfies 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 Emissions, Stack Gas Molecular Weight
EPA Method 7E	NO _x Emissions and NO ₂ Converter Check
EPA Method 10	CO Emissions
EPA Method 4	Moisture Calculation
EPA Method 18	CH ₄ Emissions
EPA Method 19	Flow Rate Calculation DSCFM
EPA Method 25A	THC, NMOC 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 ₂ S) and TRS

2.3. Test Date

Testing was conducted on February 16th, 2022.

2.4. Sampling and Observing Personnel

Testing was conducted by Jeramie Richardson and Timothy Eandi, representing Blue Sky Environmental, Inc.

Rajan Phadnis, James Dutra, and Tino Robles of Waste Management (WM) were on-site to oversee flare operations and assist in coordinating testing and the collection of process data during testing. Jon Silva of SCS Engineers was also on-site to coordinate and assist with the test program.

BAAQMD was notified of the scheduled testing in a source test protocol submitted by SCS Engineering on behalf of Waste Management on January 21st, 2022. A Source Test Protocol acknowledgement (NST-7171) was received on January 24th, 2022; however, no agency observers were present during the test program. A copy of the source test protocol and email correspondence are provided in Appendix I.



2.5. Source/Process Description

Guadalupe Recycling and Disposal Facility is an operating multi-material landfill located in San Jose, California with a landfill gas collection system that is abated by an industrial landfill gas flare. Flare A-17 has a 120 MMBtu/hr multiple nozzle burner. The flare shell is 50 feet high and 12 feet in diameter. The inside diameter (ID) is approximately 130 inches.

The flare is maintained at a setpoint of 1,500 °F. It is typically operated at ~1,850 standard cubic feet per minute (SCFM) with the condensate on and 1,976 SCFM with the condensate off. Methane quality on average ranges from 44 to 49%, with an oxygen content to be in range of 1-2%. Collected landfill gas condensate is periodically injected into the flare through one vertical nozzle positioned near the burner.

2.6. Source Operating Conditions

The flare was operated under normal conditions with an average exhaust temperature of 1,499 °F during testing. The flare was operated on landfill gas with a condensate injection rate of 1.78 gallons per minute (gpm) for the first set of tests, and on landfill gas with the condensate injection turned off for the second set of tests.

The LFG flowrate ranged from 1,784 to 1,836 SCFM. The facility exhaust temperature and LFG flowrate records are provided in Appendix F.

Landfill gas samples collected at the head of the flare had an average methane content of 44.2% and an oxygen content of 1.6%.



SECTION 3. SAMPLING AND ANALYSIS PROCEDURES

3.1. Port Location

Sampling was conducted at the 130-inch diameter ID stack of the flare through ports that were accessed with a 60-foot boom lift. Four 4-inch flange ports were located approximately 45 feet above grade, five stack diameters downstream from the burners and one stack diameter upstream from the exhaust.

3.2. Point Description/Labeling – Ports/Stack

Blue Sky Environmental, Inc. conducted two perpendicular 8-point traverses of the stack (90° apart) to check for the presence of cyclonic flow. The traverse points for the 130-inch diameter stack with 8-inch ports were 4.2, 13.7, 25.2, 42.0, 88.0, 104.8, 116.4 and 125.8 inches from the inside wall of the stack. Sampling was performed for two minutes per point for a total of 16 points over the 32-minute test run. Oxygen stratification was greater than 10%; therefore, subsequent CEM sampling was conducted using all traverse points.

3.3. Sample Train Description

Sampling system diagrams are provided in Appendix H. Additional descriptive information is included in the following section.

3.4. Sampling Procedure Description

Six consecutive 32-minute gaseous emissions tests were performed for oxides of nitrogen (NO_x), nitric oxide (NO), carbon monoxide (CO), carbon dioxide (CO₂), oxygen (O₂), methane (CH₄) 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 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. Any drift or bias was corrected using equation 100-3 from CARB Method 100. A NO_x 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 Environmental collected a total of three integrated fuel samples (three samples with the condensate injection on and three samples with the condensate injection off) for off-site analysis by Atmospheric Analysis & Consulting, Inc. (AAC) in Ventura, California. The samples were collected in 6-liter SUMMA canisters and analyzed for sulfur species (including H₂S and total reduced sulfur compounds) by ASTM D-5504, and HHV, F-factor, fixed gases, volatile organic compounds (VOCs), nonmethane organic compounds (NMOCs) and C₁-C₆₊ hydrocarbons by EPA Method 25C and ASTM D-1945.



The sampling and analysis procedures are summarized below:

EPA Method 1 – Sample and Velocity Traverses for Stationary Sources

This method is used to determine the duct or stack area and appropriate traverse points that represent equal areas of the duct for sampling and velocity measurements.

EPA Method 3A – Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)

This method is used to measure oxygen and carbon dioxide in stationary source emissions using a continuous instrumental analyzer to determine the molecular weight of the stack gas. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. A small portion of the sample is passed through a fuel cell type paramagnetic oxygen analyzer which measures the electrical current generated by the oxidation reaction at the gas/fuel cell interface. Carbon dioxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon dioxide absorbs infrared radiation.

EPA Method 7E – Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)

This method is used to measure nitrogen oxides in stationary source emissions using a continuous instrumental analyzer. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Nitric oxide is determined by passing the sample through a chemiluminescent analyzer. The chemiluminescent process is based on the light given off when nitric oxide and ozone react. Nitrogen dioxide (NO₂) concentrations are determined by passing the sample through a catalyst which reduces the NO₂ to NO. The total oxides of nitrogen concentration (NO₂ + NO) is then determined by chemiluminescence.

Section 16.2.2 of the method is used to determine the NO_x analyzer NO₂ to NO conversion efficiency.

EPA Method 10 – Determination of Carbon Monoxide Emissions from Stationary Sources

This method is used to measure carbon monoxide from integrated or continuous gas samples extracted from a sampling point. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Carbon monoxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon monoxide absorbs infrared radiation.

EPA Methods 3A, 7E and 10 are all continuous monitoring techniques using instrumental analyzers. Sampling is performed by extracting exhaust flue gas from the stack, conditioning the sample, and analyzing it by continuous monitoring gas analyzers in a continuing emissions monitoring (CEM) test van. The sampling system consists of a stainless steel sample probe, Teflon sample line, glass-fiber particulate filter, and glass moisture-knockout condensers in ice, followed by thermoelectric coolers (optional), Teflon sample transfer tubing, a diaphragm pump, and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 psi is provided to each analyzer to avoid pressure variable response differences. The entire sampling system is leak checked prior to and at the end of the sampling program.



The sampling and analytical system is checked for linearity with zero, mid (40-60%) and high span (80-100%) calibrations and is checked for system bias at the beginning and end of each run. System bias is determined by introducing calibration gas to the probe and pulling it through the entire sampling system. Individual test run calibrations use the calibration gas that most closely matches the stack gas effluent. All calibrations during testing are performed externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test. EPA Methods 3A, 7E and 10 all defer to EPA Method 7E for the calculations of effluent concentration, span, calibration gas, analyzer calibration error (linearity), sampling system bias, zero drift, calibration drift and response time.

System Performance Criteria

Instrument Linearity	≤2% Full Scale
Instrument Bias	≤5% Full Scale
System Response Time	≤± 2 minutes
NO _x Converter Efficiency (<i>EPA Method 7E</i>)	≥ 90%
Instrument Zero Drift	≤± 3% Full Scale
Instrument Span Drift	≤± 3% Full Scale

EPA Method 4 – Determination of Moisture Content in Stack Gas

This method is used to determine the moisture content of stack gas. The sample is extracted and condensed in Greenburg-Smith impingers immersed in an ice bath and in a final impinger silica gel trap. The moisture is condensed in a solution of de-ionized water, or solutions of another type of sampling train if the moisture is being determined as part of another sampling method, such as EPA Method 5, SCAQMD Method 201.7 or BAAQMD ST-32. The moisture gain in the impinger solutions and silica gel is determined volumetrically and gravimetrically respectively.

QA/QC procedures require that a minimum of 21 cubic feet of sample is pulled using a leak tight pump. The sample volume is measured with a calibrated dry gas meter. The impingers are immersed in an ice bath to maintain a gas outlet temperature of less than 68°F. Pre-test leak checks are performed for each run using a minimum 15 inches of mercury vacuum. Post-test leak checks are performed at the highest sample vacuum or greater. The leak test is acceptable if the leak rate is less than 0.02 cubic feet per minute or 4% of the average sampling rate, whichever is less. If the final leak check exceeds the criteria, either the volume is corrected based on the leak rate or the run is voided and repeated.

EPA Method 19 – Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emission Rates

This method is used to determine stack gas volumetric flow rates using oxygen-based F-factors. F-factors are ratios of combustion gas volumes to heat inputs. The heating value of the fuel in Btu per cubic foot is determined from analysis of fuel gas samples using ASTM D1946/1945 gas chromatography analytical procedures. The total cubic feet per hour of fuel multiplied times the Btu/cf provides million Btu per hour (MMBtu) heat input. The heat input in MMBtu/hr is multiplied by the F-factor (DSCF/MMBtu) and adjusted for the measured oxygen content of the source to determine volumetric flow rate. The flow rates are used to determine emission rates.

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.

Methane in the exhaust is determined using EPA Method 18.

EPA Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography

This method is used to determine emissions of methane using a gas chromatograph with a flame ionization detector. An integrated Tedlar bag is collected and either analyzed offsite by GC or onsite using a charcoal scrubber to remove the non-methane organics and determining the difference between the total hydrocarbon and non-methane hydrocarbon concentrations.

EPA Method 25C – Determination of Nonmethane Organic Compounds (NMOC) in Landfill Gas

This method is used to sample and measure NMOC in landfill gases. Gases are collected in a pre-evacuated 6-Liter SUMMA canister with pre-set flow controller set to integrate over the desired test duration. The SUMMA® passivated canisters allow holding times up to 14 days. The sample gas is drawn by the canister vacuum through a micro-filter, pre-set orifice flow controller and on/off valve into the canister. The canister vacuum is monitored with a vacuum gauge to verify sample collection. The flow controller consists of capillary orifice tubing designed to sample for a pre-set duration of 0.5 hrs. The sample is injected into a GC column where the methane and CO₂ are flushed through and removed then the NMOC (ROC) fraction is oxidized to form CO₂ then reduced to methane and analyzed.

ASTM D-1945 – 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.



3.5. Instrumentation and Analytical procedures

The following continuous emissions analyzers were used:

Instrumentation	Parameter	Principle
TECO Model 42C	NO _x /NO/NO ₂	Chemiluminescence
CAI Model Fuji ZRH	CO ₂	Infrared (IR)
TECO Model 48C	CO	Gas Filter Correlation/IR
Servomex Model 1440	O ₂	Paramagnetic
TECO Model 55C	NMOC/CH ₄	Flame Ionization (FID)

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 BAAQMD. No deviations from the protocol or anomalies were observed during testing. The measured emissions 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**



Blue Sky Environmental, Inc

A Tabulated Results

TABLE #1

Guadalupe Recycling and Disposal Facility (GRDF)

Flare A-17

1,499°F - Condensate ON

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	2/16/22	2/16/22	2/16/22		
Test Time	0837-0921	0956-1039	1101-1145		
Standard Temperature, °F	70	70	70		
Process Parameters:					
Flare Temperature, °F	1,498	1,499	1,499	1,499	
Condensate Injection, gpm	1.8	1.8	1.8	1.8	
Fuel:					
Fuel Flow Rate, SCFM	1,784	1,792	1,785	1,787	
Fuel Heat Input, MMBtu/hr	46.2	46.7	47.0	46.6	
Stack Gas:					
Exhaust Flow Rate, DSCFM (EPA Method 19)	19,301	20,019	20,072	19,798	
Oxygen (O ₂), % volume dry	12.74	12.98	12.94	12.89	
Carbon Dioxide (CO ₂), % volume dry	7.47	7.25	7.28	7.33	
Water Vapor (H ₂ O), % volume (EPA Method 4)	7.86	8.77	8.14	8.25	
NO/NO₂/NO_x Emissions:					
NO, ppmvd	17.6	17.6	16.6	17.2	
NO ₂ , ppmvd	<1.0	<1.0	<1.0	<1.0	
NO ₂ /NO Ratio	<0.06	<0.06	<0.06	<0.06	
NO _x , ppmvd	17.7	17.4	16.6	17.2	
NO _x , ppmvd @ 15% O ₂	12.8	13.0	12.3	12.7	15
NO _x , lb/hr	2.43	2.48	2.37	2.43	
CO Emissions:					
CO, ppmvd	2.6	7.5	5.1	5.1	
CO, ppmvd @ 15% O ₂	1.9	5.6	3.7	3.7	81
CO, lb/hr	0.22	0.66	0.44	0.44	
Total Reduced Sulfurs (ASTM 5504):					
Total Reduced Sulfurs as H ₂ S, ppmv in Fuel	724	778	852	785	
Sulfur Dioxide (SO ₂) Emissions, ppmvd (calculated)	66.9	69.6	75.8	70.8	300
THC Emissions (reported as CH₄):					
THC, ppmv wet (EPA Method ALT-097)	<11.0	<11.0	<11.0	<11.0	
THC, ppmvd	<11.9	<12.1	<12.0	<12.0	
THC, lb/hr	<0.572	<0.599	<0.597	<0.589	
Methane (CH₄) Emissions:					
CH ₄ , ppmv wet (EPA Method ALT-097)	<10.0	<10.0	<10.0	<10.0	
CH ₄ , ppmvd	<10.9	<11.0	<10.9	<10.9	
CH ₄ , lb/hr	<0.479	<0.497	<0.498	<0.491	
NMOC Emissions (reported as CH₄):					
NMOC, ppmv wet (EPA Method ALT-097)	<1.0	<1.0	<1.0	<1.0	
NMOC, ppmvd	<1.1	<1.1	<1.1	<1.1	
NMOC, ppmvd @ 3% O ₂	<2.2	<2.3	<2.2	<2.2	30*
NMOC, lb/hr	<0.048	<0.050	<0.050	<0.049	
Inlet Hydrocarbons (reported as CH₄):					
Inlet NMOC, ppmvd (EPA Method 25C)	2,013	1,997	2,203	2,071	
Inlet NMOC, lb/hr	8.92	8.88	9.76	9.19	
NMOC Destruction Efficiency, %	>99.46%	>99.44%	>99.49%	>99.46%	>98%*
Inlet CH ₄ , % (ASTM D-1945)	440,000	442,000	447,000	443,000	
Inlet CH ₄ , lb/hr	1,949	1,966	1,980	1,965	
CH₄ Destruction Efficiency, %	>99.98%	>99.97%	>99.97%	>99.97%	>99%
Inlet THC (TOC), %	442,013	443,997	449,203	445,071	
Inlet THC (TOC), lb/hr	1,958	1,975	1,990	1,974	
THC (TOC) Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	>98%

WHERE,

ppmvd = parts per million concentration by volume expressed on a dry gas basis
 lb/hr = pound per hour emission rate
 Tstd. = standard temperature (°R = °F+460)
 MW = molecular weight
 DSCFM = dry standard cubic feet per minute
 NO_x = oxides of nitrogen, reported as NO₂ (MW = 46)
 CO = carbon monoxide (MW = 28)
 THC = TOC = total hydrocarbons including CH₄, reported as CH₄ (MW = 16)
 NMOC = non-methane organic compounds, reported as CH₄ (MW = 16)

CALCULATIONS,

ppm @ 15% O₂ = ppm · 5.9 / (20.9 - %O₂)
 ppm @ 3% O₂ = ppm · 17.9 / (20.9 - %O₂)
 lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R
 NMOC, ppm as CH₄ = THC · CH₄
 Destruction Efficiency (DE) = (inlet, lb/hr - outlet, lb/hr) / inlet, lb/hr
 < Value = 2% of Analyzer Range

* NMOC permit limits are 30 ppmvd @ 3% O₂ or DE >98%

TABLE #2

Guadalupe Recycling and Disposal Facility (GRDF)

Flare A-17

1,499°F - Condensate OFF

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	2/16/22	2/16/22	2/16/22		
Test Time	1216-1300	1318-1402	1419-1502		
Standard Temperature, °F	70	70	70		
Process Parameters:					
Flare Temperature, °F	1,498	1,498	1,501	1,499	
Condensate Injection, gpm	0.0	0.0	0.0	0.0	
Fuel:					
Fuel Flow Rate, SCFM	1,825	1,836	1,832	1,831	
Fuel Heat Input, MMBtu/hr	47.5	47.1	48.2	47.6	
Stack Gas:					
Exhaust Flow Rate, DSCFM (EPA Method 19)	20,218	20,849	20,223	20,430	
Oxygen (O ₂), % volume dry	12.92	13.20	12.81	12.98	
Carbon Dioxide (CO ₂), % volume dry	7.40	7.12	7.33	7.28	
Water Vapor (H ₂ O), % volume (EPA Method 4)	9.49	7.96	9.01	8.82	
NO/NO₂/NO_x Emissions:					
NO, ppmvd	13.4	12.3	13.1	12.9	
NO ₂ , ppmvd	<1.0	<1.0	<1.0	<1.0	
NO ₂ /NO Ratio	<0.07	<0.08	<0.08	<0.08	
NO _x , ppmvd	13.4	12.2	13.0	12.9	
NO _x , ppmvd @ 15% O ₂	9.9	9.4	9.5	9.6	15
NO _x , lb/hr	1.93	1.82	1.87	1.87	
CO Emissions:					
CO, ppmvd	4.1	3.8	11.5	6.5	
CO, ppmvd @ 15% O ₂	3.0	2.9	8.4	4.8	81
CO, lb/hr	0.36	0.35	1.01	0.57	
Total Reduced Sulfurs (ASTM 5504):					
Total Reduced Sulfurs as H ₂ S, ppmv in Fuel	778	1,095	965	946	
Sulfur Dioxide (SO ₂) Emissions, ppmvd (calculated)	70.2	96.4	87.4	84.8	300
THC Emissions (reported as CH₄):					
THC, ppmv wet (EPA Method ALT-097)	<11.0	<11.0	<11.0	<11.0	
THC, ppmvd	<12.2	<12.0	<12.1	<12.1	
THC, lb/hr	<0.610	<0.619	<0.607	<0.612	
Methane (CH₄) Emissions:					
CH ₄ , ppmv wet (EPA Method ALT-097)	<10.0	<10.0	<10.0	<10.0	
CH ₄ , ppmvd	<11.0	<10.9	<11.0	<11.0	
CH ₄ , lb/hr	<0.502	<0.518	<0.502	<0.507	
NMOC Emissions (reported as CH₄):					
NMOC, ppmv wet (EPA Method ALT-097)	<1.0	<1.0	<1.0	<1.0	
NMOC, ppmvd	<1.1	<1.1	<1.1	<1.1	
NMOC, ppmvd @ 3% O ₂	<2.2	<2.3	<2.2	<2.3	30*
NMOC, lb/hr	<0.050	<0.052	<0.050	<0.051	
Inlet Hydrocarbons (reported as CH₄):					
Inlet NMOC, ppmvd (EPA Method 25C)	2,035	2,077	2,134	2,082	
Inlet NMOC, lb/hr	9.22	9.46	9.71	9.46	
NMOC Destruction Efficiency, %	>99.46%	>99.45%	>99.48%	>99.46%	>98%*
Inlet CH ₄ , % (ASTM D-1945)	442,000	436,000	446,000	441,333	
Inlet CH ₄ , lb/hr	2,002	1,987	2,029	2,006	
CH₄ Destruction Efficiency, %	>99.97%	>99.97%	>99.98%	>99.97%	>99%
Inlet THC (TOC), %	444,035	438,077	448,134	443,415	
Inlet THC (TOC), lb/hr	2,011	1,996	2,038	2,015	
THC (TOC) Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	>98%

WHERE,

ppmvd = parts per million concentration by volume expressed on a dry gas basis
 lb/hr = pound per hour emission rate
 Tstd. = standard temperature (°R = °F+460)
 MW = molecular weight
 DSCFM = dry standard cubic feet per minute
 NO_x = oxides of nitrogen, reported as NO₂ (MW = 46)
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CALCULATIONS,

ppm @ 15% O₂ = ppm · 5.9 / (20.9 - %O₂)
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 lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R
 NMOC, ppm as CH₄ = THC · CH₄
 Destruction Efficiency (DE) = (inlet, lb/hr - outlet, lb/hr) / inlet, lb/hr
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