February 9, 2022

Ventura County Air Pollution Control District 4567 Telephone Road, 2nd Floor Ventura, California 93003 805-303-4005

Mr. Matt Salazar Air Enforcement Office US EPA, Region IX 75 Hawthorne Street San Francisco, CA 94105

Initial 40 CFR 63, Subpart AAAA Semi-Annual Report Simi Valley Landfill and Recycling Center, Simi Valley, California

Dear Mr. Keith Macias.

Pursuant to Title 40 Code of Federal Regulations 63.1981(h), Waste Management of California. Inc. is submitting the Initial Semi-Annual Report for the Simi Valley Landfill and Recycling Center (SVLRC). This report covers the period from September 27, 2021 (the effective date of the rule) to December 31, 2021.

If you have any questions or comments regarding this document, please call Collin Pavelchik at (510) 714-6098 (cpavelch@wm.com).

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Ventura County Air Pollution Control District as public record.

Sincerely,

Mark Grady

District Manager

Mr. Christian Colline, Waste Management

Ms. Jayna Morgan, Waste Management

Mr. Dustin Colyar, Waste Management

Mr. Matthew Darr, Waste Management

v.

EXECUTIVE SUMMARY

The Simi Valley Landfill and Recycling Center (SVLRC) is a municipal solid waste (MSW) landfill located in Ventura, California in Ventura County and is owned/operated by Waste Management of California, Inc. The facility is subject to the requirements of the 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 and as such is submitting this NESHAP AAAA Report.

Updates to 40 CFR Part 62, Subpart F, Plan for the Control of Designated Pollutants from Existing Facility (Section 111(D) Plan) became effective on June 21, 2021. SVLRC is subject to this rule. New provisions under 40 CFR 63, Subpart AAAA, National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills, took effect on September 27, 2021. SVLRC is also subject to this rule, and in accordance with 40 CFR 62 Subpart F the facility is complying with the Subpart AAAA requirements in lieu of the incorporated OOO sections of Subpart F requirements as of that effective date.

In accordance with 63.1981, SVLRC is certifying prior submission of respective NESHAP AAAA reports under 40 CFR part 60 subpart WWW; 40 CFR part 60, subpart XXX; federal plan or EPA-approved and effective State Plan that implements either subpart Cc or Cf. This includes initial and amended (as applicable): design capacity report, NMOC emission rate report, collection and control system Design Plan as well as the initial performance test report.

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1.0 40 CFR 63.1981(h) SEMI-ANNUAL REPORT

SVLRC is submitting this Report because the existing MSW landfill owns and/or operates an active landfill gas collection and control system. The following summarizes the report requirements pursuant to §63.1981(h). This report covers from September 27, 2021 through December 31, 2021.

1.1 Exceedance of Applicable Parameters §63.1981(h)(1)

§63.1981(h)(1) Number of times that applicable parameters monitored under §63.1958(b), (c), and (d) were exceeded and when the gas collection and control system was not operating under §63.1958(e), including periods of SSM. For each instance, report the date, time, and duration of each exceedance.

(i) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the temperature and nitrogen or oxygen operational standards in introductory paragraph §63.1958(c), provide a statement of the wellhead operational standard for temperature and oxygen you are complying with for the period covered by the report. Indicate the number of times each of those parameters monitored under §63.1961(a)(3) were exceeded. For each instance, report the date, time, and duration of each exceedance.

(ii) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard for temperature in §63.1958(c)(1), provide a statement of the wellhead operational standard for temperature and oxygen you are complying with for the period covered by the report. Indicate the number of times each of those parameters monitored under §63.1961(a)(4) were exceeded. For each instance, report the date, time, and duration of each exceedance.

(iii) Beginning no later than September 27, 2021, number of times the parameters for the site-specific treatment system in §63.1961(g) were exceeded.

1.1.1 Wells Operating Under Positive Pressure §63.1958(b)

§63.1958(b) Operate the collection system with negative pressure at each wellhead except under the following conditions:

(1) A fire or increased well temperature. The owner or operator must record instances when positive pressure occurs in efforts to avoid a fire. These records must be submitted with the semi-annual reports as provided in §63.1981(h);

(2) Use of a geomembrane or synthetic cover. The owner or operator must develop acceptable pressure limits in the design plan;

(3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes must be approved by the Administrator as specified in §63.1981(d)(2);

SVLRC operated in compliance with all wellhead monitoring standards listed in §63.1958(b) during the reporting period. All instances of positive pressure were corrected within applicable Subpart AAAA timelines.

On a monthly basis operations and maintenance personnel measure the gauge pressure, temperature, and oxygen concentration at each well head. The gauge pressure taken at the wellhead is used in determining the presence of vacuum at the collector. Measurements are taken with a portable meter which is calibrated per the manufacturer's specifications.

Wells that were found to be operating at positive pressures are summarized in the following table.

Wells Operating Under Positive Pressure

	Initial Rea	ading		5-Day	Final Rea	ading	
Name	Date	Value ("H₂0)	Corrective Action Date	Corrective Action	Date	Value ("H₂0)	Duration (days)
SIH02113	11/3/21	0.03	11/3/21	Inc. Flow/Vac.	11/3/21	-0.02	<1
SIH2001B	11/1/21	0.0	11/1/21	Inc. Flow/Vac	11/1/21	-0.2	<1
SIH2001B	12/1/21	0.0	12/1/21	Inc. Flow/Vac	12/1/21	-0.3	<1
SIM1572S	11/2/21	0.0	11/2/21	Inc. Flow/Vac	11/2/21	-0.4	<1
SIM1778S	10/21/21	2.1	10/21/21	Inc. Flow/Vac	10/21/21	-21.0	<1
SIM1793S	12/13/21	0.46	12/13/21	Inc. Flow/Vac	12/13/21	-4.3	<1
SIM1924S	12/1/21	0.1	12/1/21	Inc. Flow/Vac	12/1/21	-0.6	<1
SIM1931S	10/4/21	0.0	10/4/21	Inc. Flow/Vac	10/4/21	-0.4	<1
SIM1933S	10/4/21	0.0	10/4/21	Inc. Flow/Vac	10/7/21	-0.3	3
SIM1933S	11/1/21	0.0	11/1/21	Inc. Flow/Vac	11/1/21	-0.4	<1

Wells Operating Under Positive Pressure

Initial Reading		ading		5-Day	Final Rea	ading	D
Name	Date	Value ("H₂0)	Corrective Action Date	Corrective Action	Date	Value ("H₂0)	Duration (days)
SIM1933S	11/2/21	0.0	11/2/21	Inc. Flow/Vac	11/2/21	-2.0	<1
SIM2052S	12/1/21	0.1	12/1/21	Inc. Flow/Vac	12/1/21	-0.3	<1
SIM2061D	10/14/21	5.6	10/14/21	Inc. Flow/Vac	10/14/21	-33.3	<1
SIM2101S	9/23/21	0.03	9/23/21	Inc. Flow/Vac	10/8/21	-0.35	15
SIM2104S	10/27/21	0.4	10/27/21	Inc. Flow/Vac	10/27/21	-10.6	<1
SIMW0031	12/1/21	24.6	12/1/21	Inc. Flow/Vac	12/1/21	-1.1	<1
SIMW0808	12/8/21	0.06	12/8/21	Inc. Flow/Vac	12/8/21	-0.22	<1
SIMW1101	12/1/21	3.8	12/1/21	Inc. Flow/Vac	12/1/21	-0.7	<1
SIMW1776	12/1/21	4.9	12/1/21	Inc. Flow/Vac	12/1/21	-2.2	<1
SIMW1811	12/7/21	0.43	12/7/21	Inc. Flow/Vac	12/7/21	-2.43	<1
SIMW1815	10/20/21	3.4	10/20/21	Inc. Flow/Vac	10/20/21	-16.4	<1
SIMW2005	10/20/21	1.2	10/20/21	Inc. Flow/Vac	10/20/21	-9.2	<1
SIMW2009	11/2/21	0.14	11/2/21	Inc. Flow/Vac	11/2/21	-0.31	<1
SIMW2009	12/3/21	0.0	12/3/21	Inc. Flow/Vac	12/3/21	-0.1	<1
SIMW2047	11/1/21	0.49	11/1/21	Inc. Flow/Vac	11/1/21	-1.04	<1
SIMW2065	10/25/21	0.0	10/25/21	Inc. Flow/Vac	10/27/21	-1.0	<1
SIMW2065	11/4/21	0.0	11/4/21	Inc. Flow/Vac	11/10/21	-1.3	6
SIMW2076	10/4/21	0.7	10/4/21	Inc. Flow/Vac	10/7/21	-8.3	3
SIMW2076	11/9/21	0.15	11/9/21	Inc. Flow/Vac	11/9/21	-3.32	<1

1.1.2 Wells with Temperatures >145°F or HOV §63.1958(c)

 $\S63.1958(c)$ Operate each interior wellhead in the collection system as specified in 40 CFR 60.753(c), until the landfill owner or operator elects to meet the operational standard for temperature in paragraph (c)(1) of this section.

- (1) Beginning no later than September 27, 2021, operate each interior wellhead in the collection system with a landfill gas temperature less than 62.8 degrees Celsius (145 degrees Fahrenheit).
- (2) The owner or operator may establish a higher operating temperature value at a particular well. A higher operating value demonstration must be submitted to the Administrator for approval and must include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens. The demonstration must satisfy both criteria in order to be approved (i.e., neither causing fires nor killing methanogens is acceptable).

The applicable standard for temperature and oxygen during this reporting period was §63.1958(c)(1), [62.8°C (145°F) or higher operating value (HOV), no oxygen limits]. SVLRC operated in compliance with all wellhead monitoring standards listed in §63.1958(c) during the reporting period. There were no instances of temperatures greater than 145°F (or HOV).

Each landfill gas collector is equipped with an access port allowing for measuring temperature at each wellhead. On a monthly basis operations and maintenance personnel measure the gauge pressure, temperature, and oxygen concentration at each well head. Measurements are taken with a portable meter which is calibrated per the manufacturer's specifications.

Wells with Landfill Gas Temperature Greater than 145°F or HOV

Nama	Initial Re	eading	5-Day	Final Re	eading	
Name	Date	Temp (°F)	Corrective Action	Date	Temp (°F)	Duration (days)
			N/A			

A list of all current HOVs (greater than 145°F) is presented in the following table:

Wells with Temperature HOVs

Device	Date	HOV
SIM1778D	6/18/2021	150
SIMW1779	6/18/2021	150

Device	Date	ноч
SIMW1232	6/18/2021	150
SIMW1233	6/18/2021	150

^{*}SVLRC also has seventy-two (72) existing HOVs for temperatures equal or greater than 131°F and equal or less than 145°F.

1.1.3 Surface Emissions Monitoring §63.1958(d)

§63.1958(d)(1) Operate the collection system so that the methane concentration is less than 500 parts per million (ppm) above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator must conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at no more than 30-meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan must be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.

- (2) Beginning no later than September 27, 2021, the owner or operator must:
 - (i) Conduct surface testing using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in §63.1960(d).
 - (ii) Conduct surface testing at all cover penetrations. Thus, the owner or operator must monitor any cover penetrations that are within an area of the landfill where waste has been placed and a gas collection system is required.
 - (iii) Determine the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

Surface emissions monitoring is discussed in Section 1.5.

1.1.4 Treatment System Monitoring §63.1981(h)(1)(iii)

§63.1981(h)(1) (iii) Beginning no later than September 27, 2021, number of times the parameters for the site-specific treatment system in §63.1961(g) were exceeded.

§63.1959(b)(2)(iii)(C) using a landfill gas treatment system must calibrate, maintain, and operate according to the manufacturer's specifications a device that records flow to the treatment system and bypass of the treatment system (if applicable). Beginning no later than September 27, 2021, each owner or operator must maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan required in §63.1983(b)(5)(ii). The owner or operator must:

(1) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the treatment system at least every 15 minutes; and

(2) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

SVLRC does not operate a treatment system and therefore, is not subject to the requirements of §63.1981(h)(1)(iii).

1.2 Gas Stream Diversion §63.1981(h)(2)

§63.1981(h)(2) Description and duration of all periods when the gas stream was diverted from the control device or treatment system through a bypass line or the indication of bypass flow as specified under §63.1961.

The gas collection system is not designed nor equipped to bypass the control device(s); therefore §63.1981(h)(2) is not applicable.

1.3 Control or Treatment System Downtime Events §63.1981(h)(3)

§63.1981(h)(3) Description and duration of all periods when the control device or treatment system was not operating and length of time the control device or treatment system was not operating.

Control device and treatment system downtime events were recorded in compliance with §63.1981(h)(1) and (3) during the reporting period. The following tables summarize all the periods when the control devices and/or treatment system were not operating.

Enclosed Flare No. 3 Downtime Events

Shutdown	Startup	Duration (hours)	Reason
10/7/21 11:30	10/7/21 12:30	1.0	Biogas System Signal Malfunction
10/8/21 0:20	10/8/21 4:35	4.25	Biogas System Signal Malfunction
10/8/21 6:20	10/8/21 7:30	1.17	Biogas System Signal Malfunction
10/20/21 7:40	10/20/21 10:45	3.08	Biogas System Troubleshooting
10/22/21 7:10	10/22/21 10:35	3.42	Sump Failure Sump 4
10/26/21 5:50	10/26/21 13:45	7.92	Sump Clean Out
11/11/21 14:05	11/11/21 15:15	1.17	Vibration Test Combustion Air Blower (CAB)
11/17/21 12:10	11/17/21	0.83	Blower Seal Replacement BL- 103/BL-104
11/18/21 8:30	11/18/21 18:10	9.67	Blower-105 Install
11/18/21 19:05	11/19/21 12:50	17.75	Blower-105 Install
11/25/21 4:40	11/26/21 13:45	33.08	Power Outage
12/6/21 8:40	12/6/21 14:55	Replacement Bear 55 6.25 Blower-104 installe Breakthroug	
12/16/21 11:05	12/17/21 9:40	22.58	CAB Flare 4 Restart
12/23/21 7:55	12/23/21 8:15	0.33	Biogas System Signal Malfunction
12/24/21 5:35	12/24/21 14:50	9.25	High Burner Temperature/Surging Due to Condensate Build Up in H2S Tank

Enclosed Flare No. 4 Downtime Events

Shutdown	Startup	Duration (hours)	Reason
10/1/21 18:55	10/2/21 6:50	11.92	High O2 affected the Gas Line
10/7/21 11:30	10/7/21 12:25	0.92	Biogas System Signal Malfunction
10/8/21 0:20	10/8/21 4:25	4.08	Biogas System Signal Malfunction
10/8/21 6:20	10/8/21 7:25	1.08	Biogas System Signal Malfunction

10/14/21 8:05	10/14/21 9:10	1.08	High O2 affected the Gas Line
10/20/21 7:45	10/20/21 10:45	3.0	Biogas System Troubleshooting
10/22/21 7:10	10/22/21 10:15	3.08	Sump Failure Sump 4
10/26/21 5:50	10/26/21 13:35	7.75	Sump Cleanout
10/27/21 19:15	12/23/21 10:05	1358.83	Combustion Air Blower Failure
12/23/21 10:10	12/23/21 10:15	0.08	Biogas System Signal Malfunction

1.4 Collection System Downtime Events §63.1981(h) (4)

§63.1981(h)(4) All periods when the collection system was not operating.

§63.1958(e) Operate the system as specified in § 60.753(e) of this chapter, except:

(1) Beginning no later than September 27, 2021, operate the system in accordance to §63.1955(c) such that all collected gases are vented to a control system designed and operated in compliance with \$63.1959(b)(2)(iii). In the event the collection or control system is not operating:

(i) The gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating; and

(ii) Efforts to repair the collection or control system must be initiated and completed in a manner such that downtime is kept to a minimum, and the collection and control system must be returned to operation.

The gas collection system was operated in accordance with §63.1955(c) during the reporting period to in a manner consistent with safety and good air pollution control practices to minimize emissions and downtime. All collected gases were vented to a control system design and operated in compliance with §63.1959(b)(2)(iii). In the event of collection or control system downtime the gas mover system is shut down and all valves in the collection and control system contributing to the venting of gas to the atmosphere are closed within 1 hour of the collection or control system not operating. Efforts to repair the collection or control system are initiated and completed pursuant to the work practice standards of Section 112(h) of the Clean Air Act such that downtime is kept to a minimum, and the collection and control system is returned to operation.

Collection System Downtime Events

Shutdown	Startup	Duration (hours)	Reason
10/7/2021	10/7/2021	0.92	Biogas System Signal Malfunction
10/8/2021	10/8/2021	5.16	Biogas System Signal Malfunction
10/20/2021	10/20/2021	3.0	Biogas System Signal Malfunction
10/22/2021	10/22/2021	3.08	Sump failure sump 4
10/26/2021	10/26/2021	7.75	Sump cleanout
11/11/2021	11/11/2021	1.17	Flare 4 offline due to Combustion Air Blower (CAB) failure; CAB Vibration test
11/17/2021	11/17/2021	0.83	Flare 4 offline due to CAB failure; blower seal replacement
11/18/2021	11/18/2021	9.67	Flare 4 offline due to CAB failure; new blower install
11/18/2021	11/19/2021	17.75	Flare 4 offline due to CAB failure; new blower installed
11/25/2021	11/26/2021	33.08	Flare 4 offline due to CAB failure; power outage
12/6/2021	12/6/2021	Flare 4 offline due to 6.25 failure; replace bearing blower	
12/16/2021	12/17/2021	22.58	Flare 4 offline due to CAB failure; CAB restart
12/23/2021	12/23/2021	0.33	Biogas System Signal Malfunction
12/24/2021	12/24/2021	9.25	High Burner Temp/Surging Due to Condensate Build Up In H2S Tank

1.5 Surface Emissions Monitoring §63.1981(h)(5)

§63.1981(h)(5) The location of each exceedance of the 500-ppm methane concentration as provided in §63.1958(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. Beginning no later than September 27, 2021,

for location, you record the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

Surface emissions monitoring was completed in compliance with §63.1960(c) during the reporting period. Monitoring included the perimeter of the landfill, the serpentine path with a 30-meter spacing, penetration and openings monitoring and per Method 21 requirements areas where visual observations indicate possible elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover are monitored.

Monitoring for the Fourth Quarter 2021 was completed during the reporting period. There were eleven (11) locations with recorded methane concentrations greater than 500 ppm as methane. All locations were remediated within §63.1960(c)(4) timelines. The location information plus initial and final remediated methane concentrations are presented in the following table. Applicable monitoring data is presented in Appendix A.

Surface Emissions Monitoring - Areas over 500 ppmv

Initial Monitoring Event					10-Day Rem	onitoring	1-Mo Remon	
Flag	Date	Loca	ation	CH ₄	Date	CH ₄	Dete	CH ₄
Number	Date	Longitude	Latitude	(ppm _v)	Date	(ppm _v)	Date	(ppm _v)
1	10/11/21	-118.794695	34.29738102	4211	10/21/21	90	11/10/21	7
21	10/11/21	-118.794776	34.29862297	576	10/21/21	8	11/10/21	15
22	10/11/21	-118.79543	34.29844603	2056	10/21/21	12	11/10/21	11
31	10/11/21	-118.793394	34.29783097	1500	10/21/21	58	11/10/21	19
32	10/11/21	-118.79623	34.29903997	3800	10/21/21	15	11/10/21	10
33	10/11/21	-118.796943	34.2986497	3000	10/21/21	24	11/10/21	13
34	10/11/21	-118.792307	34.30078902	2000	10/21/21	102	11/10/21	16
35	10/11/21	-118.793443	34.30015401	2200	10/21/21	74	11/10/21	5
36	10/11/21	-118.793893	34.30047797	2500	10/21/21	56	11/10/21	7
41	10/11/21	-118.796052	34.29686797	1700	10/21/21	28	11/10/21	9
42	10/11/21	-118.796924	34.29560398	700	10/21/21	60	11/10/21	4

1.6 System Expansion §63.1981(h)(6)

§63.1981(h)(6) The date of installation and the location of each well or collection system expansion added pursuant to §63.1960(a)(3) and (4), (b), and (c)(4).

SVLRC complied with the requirements of §63.1960(a)(3) and (4), (b), and (c)(4).

SVLRC continually looks for ways to optimize the collection system and additional wells or collectors are installed on an as needed basis maintain collection efficiency. The following table summarizes the locations of the wells added to the collection system during the reporting period. Locations of the wells are shown on the GCCS Map included in Appendix B.

Wellfield Expansions to Comply with §63.1960(a)(3) (Pressure Exceedances)

Well ID	Startup Date
N/A no expansions were re	equired to correct pressure exceedances

Wellfield Expansions to Comply with §63.1960(a)(4) (Temperature Exceedances)

Well ID	Startup Date				
N/A, no expansions were required to	correct temperature exceedances				

Wellfield Expansions to Comply with §63.1960(b) (Collection System Coverage)

Well ID	Startup Date				
N/A, no expansions were required	to increase collection system coverage				

Wellfield Expansions to Comply with §63.1960(c)(4) (Surface Emissions)

Well ID	Startup Date
N/A, no expansions were required to	o correct surface emissions exceedance

1.7 Root Cause / Corrective Action Analyses §40 CFR 63.1981(h)(7)

§63.1981(h)(7) For any corrective action analysis for which corrective actions are required in §63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

SVLRC complied with the requirements of §63.1960(a)(3)(i) and (a)(5). No root cause or corrective action analyses were required during the reporting period. During the reporting period all wells with positive pressures or temperatures greater than 145°F (or applicable HOV) were corrected within 0 to 60 days.

1.8 Enhanced Monitoring §40 CFR 63.1981(h)(8)

§63.1981(h)(8) Each owner or operator required to conduct enhanced monitoring in §63.1961(a)(5) and (6) must include the results of all monitoring activities conducted during the period.

- (i) For each monitoring point, report the date, time, and well identifier along with the value and units of measure for oxygen, temperature (wellhead and downwell), methane, and carbon monoxide.
- (ii) Include a summary trend analysis for each well subject to the enhanced monitoring requirements to chart the weekly readings over time for oxygen, wellhead temperature, methane, and weekly or monthly readings over time, as applicable for carbon monoxide.
- (iii) Include the date, time, staff person name, and description of findings for each visual observation for subsurface oxidation event.

1.8.1 Enhanced Monitoring for Wellhead Temperature Exceedances §63.1961(a)(5)

The enhanced monitoring requirements of §63.1961(a)(5) for temperature exceedances were not applicable during the reporting period.

1.8.2 Summary Trend Analyses for Wells Subject to Enhanced Monitoring Requirements

No wells were subject to the enhanced monitoring requirements of §63.1961(a)(5) during the reporting period.

1.8.3 Visual Observations for Wells to Enhanced Monitoring Requirements

No wells were subject to the enhanced monitoring requirements of §63.1961(a)(5) during the reporting period.

1.9 Enclosed Combustor Monitoring §63.1983(c)

§63.1983(c) Except as provided in §63.1981(d)(2), each owner or operator of a controlled landfill subject to the provisions of this subpart must keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in

§63.1961 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.

(1) The following constitute exceedances that must be recorded and reported under §63.1981(h):

(i) For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million Btu per hour) or greater, all 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with §63.1959(b)(2)(iii) was determined.

(ii) For boilers or process heaters, whenever there is a change in the location at which the vent stream is introduced into the flame zone as required under paragraph (b)(3) of this section.

The SVLRC operated in compliance with all enclosed combustor monitoring standards listed in 63.1983(c) during the reporting period. There were no reportable exceedances under 63.1983(c)(1)(i).

SVLRC operates two enclosed combustors in accordance with the Part 70 Title V Permit No. 01395 and the Temporary Permit to Operate (TPTO) No. 1395-351, issued by the Ventura County Air Pollution Control District (VCAPCD). As required, the enclosed combustors are equipped with thermocouple(s) that serve as the temperature monitoring device(s). The thermocouples send temperature monitoring data to the digital data recorder. Temperature data is continuously monitored and recorded at least once every 15 minutes.

The enclosed combustors are equipped with flow meters which monitor flow to the enclosed combustors. The flow meters send the data to the digital data recorder, which must record flow rate at least once every 15 minutes.

The enclosed flares are subject to a minimum operating temperature of 28°C (50°F) below the average combustion temperature during the most recent source test (3-hr block averages). The following thresholds apply to the enclosed flares during the reporting period:

Applicable 3-hr Block Average Temperature Limits Flare No. 3

Parameter	June 29, 2021 Source Test Report
Avg. Test Temperature	1,554 °F
3-hr Min Combustion Temperature	1,504°F

Flare No. 4

Parameter	April 16, 2021 Source Test Report				
Avg. Test Temperature	1,551 °F				
3-hr Min Combustion Temperature	1,501°F				

Appendix A
SEM Data

WASTE MANAGEMENT



January 27, 2022

172 98th Avenue Oakland, CA 94603 (510) 430-8509

Mr. Mark Grady 2801 Madera Road Simi Valley, California 93065

Fourth Quarter 2021 Surface Emissions and Component Leak Monitoring Report for the Simi Valley Landfill and Recycling Center

Dear Mr. Tignac:

This monitoring report for the "Simi Valley Landfill and Recycling Center (SVLRC)" contains the results of the Fourth Quarter 2021 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 site-wide surface emissions and component leak monitoring was also conducted by RES personnel.

APPLICABLE REQUIREMENTS

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

Surface Emission Monitoring (SEM)

- 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).
- 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; and updated Title 40 CFR part 63, Subpart AAAA (63.1960), promulgated by the United States Environmental Protection Agency (USEPA).
- Ventura County Air Pollution Control District (VCAPCD) Rule 74.17.1 (Municipal Solid Waste Landfills)

Component Leak

• 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).

SVLRC Plan and Alternative Compliance Measures

An Alternative Compliance Option (ACO) Request was submitted to the California Air Resources Board (CARB) on May 24, 2011. A response from the CARB was not received to the ACO Request within 120 days from the date of submittal, therefore SVLRC assumes that the alternative compliance measures, monitoring requirements, and test measures and procedures were deemed acceptable as of September 21, 2011, per CCR Title 17 §95468(c).

All monitoring and reporting was completed in accordance with the 2011 SVLRC AB-32 SEM Plan.

PROCEDURES

General

The surface of the SVLRC disposal area has been divided into one-hundred eighty-five (185), (approximately) 50,000 square foot monitoring grids. The entire landfill surface is monitored with the exception of active portions of the Landfill, slope areas, and as requested in the approved ACO, areas containing only asbestos-containing waste, inert waste and/or non-decomposable waste which are excluded for safety as allowed by CCR Title 17 §95466.

Field personnel walked the surface of the landfill following the walking pattern as depicted the 2011 SVLRC 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) and 63.1960, 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. In addition, penetrations were monitoring per Title 40 CFR part 63, Subpart AAAA (63.1960).

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was calibrated to 500 parts per million by volume (ppmv) methane, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The FID was calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The Instantaneous SEM procedures followed the requirements of 40 CFR 60.755 (c) and (d), CCR Title 17 §95471(c)(2), VCAPCD Rule 74.1.7, and 40 CFR part 63, Subpart AAAA 63.1960.

RES personnel walked the surface of the landfill on a grid-by-grid basis with the wand tip held at 3 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 ppmv (areas of concern) or 500 ppmv (exceedances) for instantaneous were recorded, flagged, and marked on an SEM Map, which, wherever required, is included in the Attachments of this report. Applicable corrective action and re-monitoring timelines are listed below:

- Re-monitoring shall be conducted within 10 days of the initial exceedance.
 - o 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 ppmv 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 at 3 inches above the landfill surface. The Integrated monitoring procedures followed the requirements of CCR Title 17 §95471(c)(2).

Grids with results greater than 25 ppmv were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppmv are subject to the following corrective action and 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.
- If the second 10-day re-monitoring event shows a third grid exceedance, an additional well shall be installed within 120 days of the initial exceedance.

Component Leak Monitoring Procedures

RES personnel monitored the exposed LFG components under positive pressure (pipes, wellheads, valves, blowers, and other mechanical appurtenances) using a TVA 1000 calibrated to 500 ppmv. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppmv 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) were recorded. Applicable corrective action and re-monitoring timelines are listed below:

• Leaks at or above 500 ppmv must be corrected and re-monitored within 10 days of the initial exceedance.

FOURTH QUARTER SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and Component leak monitoring results completed during the Fourth Quarter 2021.

Instantaneous Surface Emission Monitoring Results

The Instantaneous surface monitoring was performed on October 11, 2021, in accordance with the NSPS NESHAP, Rule 74.1.17, CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

Initial Monitoring Event Exceedances of 500 ppmv

There were eleven (11) exceedances of 500 ppmv as methane detected during the initial monitoring events conducted on October 11, 2021. RES personnel remediated the locations, and the following re-monitoring was conducted as described below.

First Ten-Day Re-Monitoring Results

RES personnel performed the first ten-day re-monitoring events on October 21, 2021. No exceedances were observed during the first ten-day re-monitoring event.

Thirty-Day Re-Monitoring Results

RES personnel performed the thirty-day monitoring event on November 10, 2021. No exceedances were observed during the thirty-day re-monitoring event.

Readings between 200 ppmv and 499 ppmv (Initial and Re-monitored)

There were zero (0) readings between 200 ppmv and 499 ppmv, measured as methane detected during the initial monitoring event on October 11, 2021. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppmv but below 500 ppmv are required to be recorded.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on October 12 & 13, 2021, in accordance with the ACO, requirements outlined in CCR Title 17 §95469, and VCAPCD Rule 74.1.17. See Attachment B for details.

Initial Monitoring Event Exceedances of 25 ppmv

There were zero (0) grids with an exceedance above 25 ppmv as methane detected during the initial monitoring event conducted on October 12 & 13, 2021.

Ten-Day Re-Monitoring Results

No exceedances were observed during the initial monitoring events, therefore the 10-day remonitoring was not required.

The average methane concentration of each grid was recorded during the monitoring event per applicable requirements. See Attachment B for details.

Component Leak Monitoring Results

Component leak monitoring was conducted per the applicable requirements on October 12, 2021. There were two (2) locations with a component leak detection of greater than 500 ppmv during the initial monitoring event. RES personnel remediated the locations, and the ten-day remonitoring event was performed on October 21, 2021; no exceedances were observed. See Attachment C for details.

WEATHER CONDITIONS

Wind Speed Conductions during the Surface Emission Monitoring Events

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

Precipitation Requirements

Per the SVLRC'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 ppmv in air for integrated sample analyses and 500 ppmv 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

Mark Grady January 27, 2022 Page 7

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 the undersigned at (510) 714-6098.

Thank you, Waste Management

Collin Parellik

Collin Pavelchik

Environmental Protection Air Quality 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

Component Leak Exceedances and Monitoring Logs

Attachment D - Weather Station Data

• Strip Chart Data and Legend

Attachment E - Calibration Records

• Instrument and Gas Calibration Records

Attachment A

Instantaneous Surface Emission Monitoring Event Records

SIMI VALLEY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hevshey		A	1. par.	idea .	T-Spiver	
į.	Gr. Poble	3		Juy		al. Gas Exp. Date: 1-19-23
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24	GIR	0845	0900	6	7	9	117	
25	mp	1842	0900	2	7	4	12	
26	Sp	1845	0900	1	7	4	12	
27	Ju	0845	0900	4	1	4	12	
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Attach Calibration Sheet

Attach site map showing grid ID

Page __/_ of ______

SIMI VALLEY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

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57	SH	1000	105	8	7	9	12	
58	SP	1000	1015	3	3	4	12	
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Attach Calibration Sheet

Attach site map showing grid ID

Page 2 of 5

SIMI VALLEY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

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Attach Calibration Sheet Attach site map showing grid ID

SIMI VALLEY LANDFILL

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94	GR	1215	1230	7	4	l _k		
95	Mp	1215	1230	5	Y	b	8	
96	SP	1215	1230	6	Ч	6	8	
97	5p TN	1215	1230	6	4	6	8	
90	J3	1215	1230	3	4	6	8	
99	SH	1230	1245	8 2	9	6	8	
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SIMI VALLEY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

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31	Sp	1330	1345	4	4	15	13	
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33	55	1330	1345	3	4	10	8	
SY	SH	1345	1400	2	9	/ 0	8	
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SIMI VALLEY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

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					0.00		
				- 1/2			
	-	-	-				
1				1 1			
	STAFF INITIALS SH OP SP TW GIR MP JS SH	12-21 Instruction	12-21 Instrument Use 12-21 Instrument	12-21 Instrument Used: TVA	STAFF START STOP TOC NITTALS TIME TIME TIME PPM AVG SPEED	TVA 1000 Gri Gri	INITIALS TIME TIME PPM AVG SPEED DIRECTION 16 POINT SH (1800 O815 /0 Y C S OP 0800 0815 8 Y C S FR 0800 0815 7 Y S The 0800 0815 3 Y S GIR (1800 0815 9 Y S MP 0800 0815 6 Y S SH 0815 0830 12 Y G SH 0815 0830 12 Y G

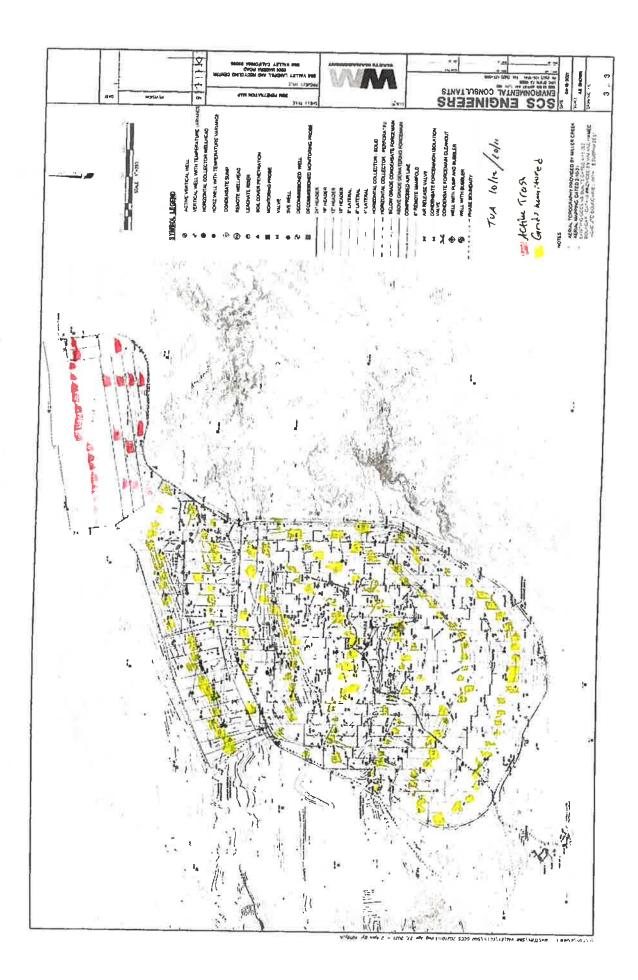
Attach Calibration Sheet Attach site map showing grid ID

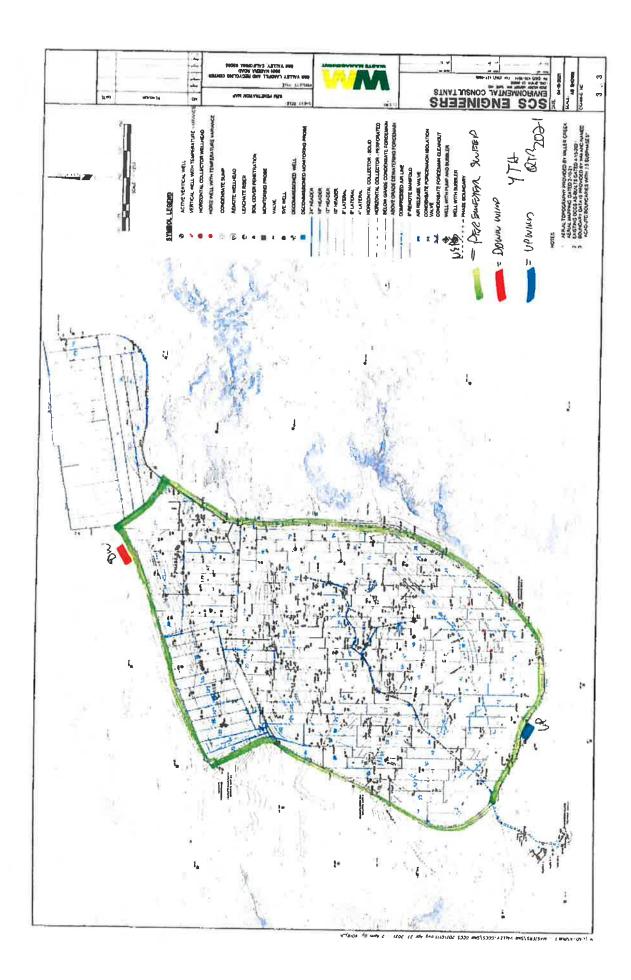
Page _____ of _____

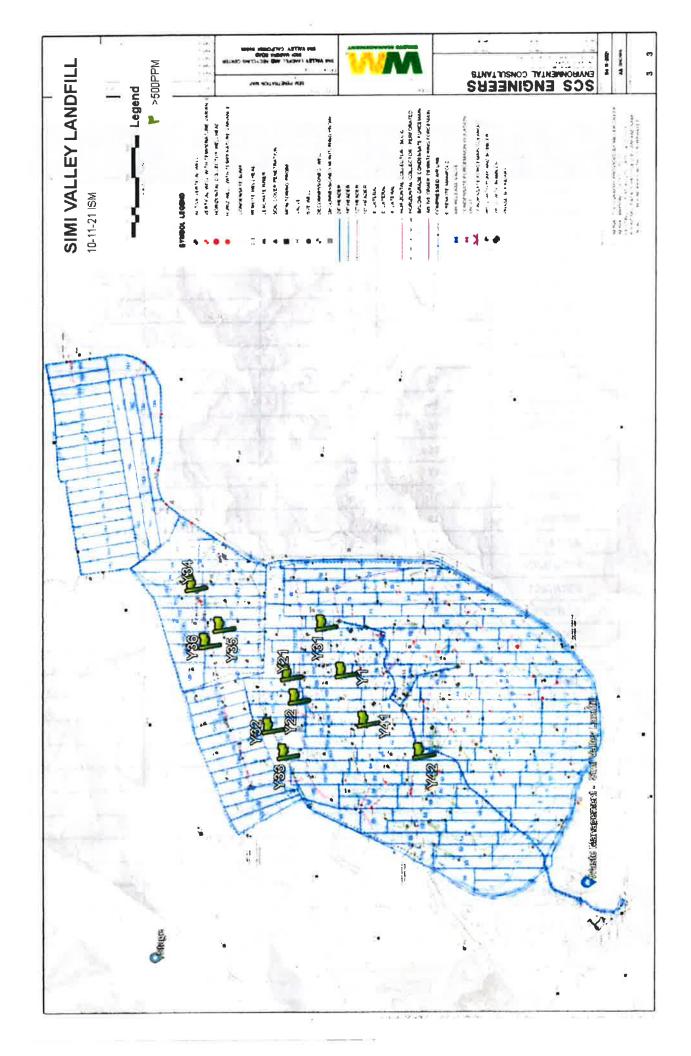
SIMI VALLEY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

							Cal. Gas E	xp. Date:
ate: 10	12-21	Instrur	nent Used	ACHVE 1:	Trash	Grid	d Spacing:	
Date: 10-12-21 Instrument Use								
Temperature: Precip:		cip:	Up	wind BG:		Downwind BG:		
GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIN	ID INFORM	MATION	REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
157								
158								
159								
160								17.72
161	K.							
162								
163								
164								
165								
166								
167								
168								
169								
170								
121								
172								
173								
174								
175								
176								
177								
178								
179								
180								
181								
185								
183								
184								
185								

Page _____ of _____







PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW0019	4	5		
SIMW0001	6	G.		
SIMW0002	6	7		
SIMW0808	7	4		
8IMW0020	8	9		
SIMW1808	8	3		
SIMW0004	9	3		
SIMW0006	10	4		
SIMW1015	13	2	-	
SIMW709D	14	6		
SIMW709S	14	5		
SIMH0017	16	7		
SIH1363B	17	4		
SIMW0708	17	8		
SIMW2006	18	3		
SIMH022S	19	7		
SIMW2007	20	4		
SIMW2008	20	20		
SIH1361B	21	15		
SIMSVE02	21	8	12	
SIMLR00B	21	3		
SIMH016N	22	7	,,,	
SIH1359B	24	7		-
SIMI0905	24	7		
SIMI0904	25	6		
SIMH022N	27	9		
SIM10903	27	3		
SIM10901	29	3		
SIMI0902	30	7		
SIMW116R	31	2		
SIMW1565	31	8		

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW2084	31	8.		
SIM1570D	32	4		
SIM1570S	32	9		
SIMW2045	33	3		
SIMW703D	33	Ζ		
SIMW703S	33	9		
SIMW1785	35	ş		
SIMW2083	35	6		
SIMW1233	36	12		
SIMW1790	36	15		
SIMW1571	37	8		
SIH1362B	38	3		
SIM1792D	38	2		
SIM1792S	38	2		
SIMW1232	39	40		
SIMW707D	39	7		-
SIMW1791	40	3		
SIM2042D	41	9		
SIM2042S	41	7		
SIMW805D	41	8		
SIMW805S	41	2		
SIMW1231	42	n		
SIMW2041	43	6		
SIMW09RD	44	7		
SIMW1012	44	2.		
SIMW1228	44	5		
SIMWO9RS	44	8		
SIMW010R	45	4		
SIMW007R	46	y		
SIMW1227	47	9		
SIMW1234	47	6		

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIM1572D	48	3		
SIM1572S	48	7		
SIMW810D	51	8		
SIMW810S	51	9		
SIMW0018	52	7		
SIMW0812	52	7		
SIMW0811	53	6		
SIMLROOD	55	4		
SIMW0003	57	5		
SIMW0813	57	8		
SIMW2009	57	2		
SIMW1014	58	9		
SIMW1107	59	y		To an
SIH1405B	60	6		
SIH1406B	60	6		
SIMW1806	60	3		
SIMW1013	61	2		
SIMW1226	62	8		
SIMW1011	63	7		
SIM1673S	64	4		
SIM1793D	64	6		
SIM1793S	64	2		
SIMW012R	64	700	60	4
SIH1406A	65	12		
SIM2044D	65	11		
SIM2044S	65	12		
SIMW1229	65	8		
SIM1788D	66	5		
SIM1788S	66	6		
SIH1362A	67	6		
SIH1404A	67	2		

	W DEST		9 <u></u>	
PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW1008	67	Q	<u> </u>	
SIMW1787	67	8	****	
SIM1789D	68	5		
SIM1789S	68	9		
SIM2054D	68	/		
SIM2054S	68	4		
SIMW1005	68	Z		
SIMW1225	68	9		
SIM2043D	69	5		
SIM2043S	69	3		
S!MW1786	69	8		99-3-311
SIM1573D	70	5		
SIM1573S	70	6		
SIM1783D	70	6		
SIM1783S	70	3		
SIM2064D	70	2		
SIM2064S	70	5		
SIMW2086	70	6		
SIM1805D	71	6		
SIM1805S	71	10		
SIMW1224	71	5		
SIMW1569	71	4		
SIH1359A	72	5		
SIM1927S	72	14		
SIMW1784	72	6		
SIMW1779	73	5		
SIM1568D	74	8		
SIM1568S	74	7		
SIM2052D	74	7		
SIM2052S	74	4		
SIMW2065	74	5-		

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIM1564D	75	/3	All the second	
SIM1564S	75	10	300 1101	
SIMW0045	78	Ý		
SIMW1563	78	5		
SIM1562D	81	8		
SIM1562S	81	フ		
SIMW0047	81	4		
SIM2061D	82	0621	58	19
SIM2061S	82	3		
SIM1778D	83	5		
SIM1778S	83	2		
SIMW1802	83			
SIMW822D	83	9		
SIMW822S	83	16		
SIMW1220	84	4		
SIMW2053	84	5		
SIM1780D	85	13		
SIM1780S	85	9		
SIMW1804	85	9		
SIH1401A	86	5		
SIMW1104	86	4211	90	7
SIMW2047	86	12		
SIMHL004	86	8		
SIH1403A	88	9		
SIM2081D	88	8		
SIM2081S	88	7		
SIMW1105	88	6		
SIMW1781	88	4		
SIMHL005	88	3		
SIM1782D	89	3		
SIM1782S	89	δ		

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIM1928S	89	9	her schools	
SIMW2056	89	17		
SIMLROAR	89	10		
SIMW1356	90	11		
SIMLR00A	90	1700		
SIM1929S	91	15	28	9
SIMW1797	91	8		
SIMW1801	91	3		
SIM1799D	92	6	0	
SIM1799S	92	4		
SIMW1222	93	8		
SIMW2046	93	9		
SIMW2049	93	5		
SIMW1798	94	7		
SIMW1010	95	7		
SIMW1355	95	9		
SIMW2048	95	6		
SIM1937S	96	8.		
SIH1403B	97	6		
SIH1404B	97	6		
SIMW0814	98	4		
SIMLR602	99	2		
SIMLR603	99	9		
SIMW0816	99	5		
SIMW0817	100	3		
SIMW0818	101	2		
SIMW0819	103	3000	24	13
SIMW1102	103	6		
SIMW1796	103	14		
SIMW2055	104	18		
SIH1235A	105	10		

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIM1933S	105	/2		
SIM1938S	105	18		
SIMW1354	105	16		
SIMW1794	105	3		
SIH2001A	106	4		- 1-
SIM1932S	106	3		
SIMW1007	106	5-		
SIM1931\$	107	8		
SIMW1807	107	9		
SIMW1353	108	6		
SIMW1795	108	7		
SIH2001B	109	7		
SIM1930S	109	2056	12	[1
SIMW1803	109	4		
SIM1777D	110	7		
SIM1777S	110	8		
SIM1924S	110	þ		
SIMW1101	110	3		
SIMW1219	110	9		
SIMW1776	110	576	8	15
SIMHL002	110	8		
SIMHL003	110	7		
SIMW2057	111	9		
SIMHL001	112	10		
SIMW0048	113	12		
SIMW1560	113	15		4
SIMW2062	113	6		
SIMW1816	114	4		
SIMW2058	114	5	C	
SIMW1561	115	3		
SIMW2060	116	9		

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW0031	117	9		
SIMW2001	117	4		
SIMW2000	118	8	a a	
SIH1401B	119	9		
SIMW2099	119	9		
SIMW0820	120	3800	15	10
SIMW2059	120	14		
SIMW2098	122	6		
SIMLR31A	123	3		
SIMW2076	126	7		
SIMW2096	127	12		
SIMW2097	127	8		
SIMW2077	128	3		
SIMW2095	129	5		
SIMW2074	130	8		
SIMW2078	131	9		
SIMW2073	132	8		
SIMW2094	132	フ		
SIMW2079	133	8		
SIMW2072	134	5		4.0
SIMW2093	134	3		
SIMW2080	135	9		
SIMW2002	136	2		
SIMW2071	136	6	Y	
SIMW2087	136	4 2		
SIMW2088	137	2		
SIMW2003	138	5		
SIMW2004	138	2500	56	7
SIMW1809	139	20		
SIMW1815	139	2200	74	5
SIMW1814	141	18		

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)	
SIMW2005	141	13	917		
SIMW1817	142	8			
SIMW1811	143	2000	102	16	
SIMW1813	143	2	111		
SIMW2082	143	4			
SIMW1812	144	J			
SIMW1821	144	2			
SIMW2070	144	7			
SIMSVE03	144	6		3	
SIH02004	145	8			
SIM1936S	145	9			
SIH2115F	146	7			
S(H02106	146	3			
SIMW1820	149	2			
SIMW2089	149	9			
SIMW1B10	151	6			
SIMW1819	151	7			
SIMW1818	153	8			
SIMW2090	153	3			
SIMW2091	155	9			
SIMW2092	156	15			
SIH2115E	157	6			
SIH02107	157	18			
SIH02108	157	12			
SIH2115D	158	30			
SIH02109	158	14			
SIH02110	158	10			
SIH2115C	159	8			
SIH02111	159	11			
SIH02112	159	16			
SIH2115B	161	10			

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIH2115A	168	15		- V-8 (V-8/V-9/V-1
SIH02113	168	12		
SIH02114	168	16		
SIMLR22A	168	14		
SIMLR22B	168	21		
SIMHL010	172	36		
SIMHL009	175	14		
SIMHL008	177	11		
SIMHL007	179	28		
SIMHL006	182	19		
SIM2101S	184	31		
SIM2100S	185	16		
SIMLR22C	185	25		

Waste Management Instantaneous Landfill Surface Emissions Monitoring Exceedance and Monitoring Logs

Quarter. Yen BTR 2021

Initial Monitoring Performed By: Shawn HUShay

Follow-up Monitoring Performed By: Michael orline, Buckey Ramines

Landfill Name: Simi Valley

	ste			-		102							
	Comments	שייון וויים		GW 1730	G1907 40	Unmanced pile	918 mg	181 20	FIR 1815	Gran rock	Sumo A		
후	Exceed. >500												
1# 30-Day Follow-Up	No Exceed. <\$00	7	18	11	19	10	13	16	2	2	6	7	
1#30	Monitoring Date	11-10-21	-									S	
₽D	Exceed. >500												
1* 10-Day Follow-Up	Exceed.	9	20	12	28	15	52	201	74	26	38	90	
1* 10.	Monitoring	h-12-01								_		>	
Corrective Action within 5 Days	Action taken to repair Exceedance												
Correct	Repair Date												
ž	Field Reading	1124	576	2056	1500	5800	3000	202	22000	2520	1700	٥٥٥	
Initial Monitoring Event	Monitoring Date	12-11-01									,	≯	
Initial R	Fing **	1/6	727	77.5	× × ×	735	22	22.2	V3 <	7.3%	74	तु	
	Grid	200	MO			32	A	43	139	158	2	53	1

Attachment B

Integrated Surface Emission Monitoring Event Records

Personnel: S. Hershey	M. Partida	J-Spicer
Diperation On Parties	J. wessan	Cal. Gas Exp. Date: 2-19-2
Date: 10-12-11 Instrume	ent Used: DSG 1-7	Grid Spacing: 25"
Temperature: 70° Precin	Linwind RG L	Downwind BC. 2

GRID	STAFF	START	STOP	тос	ROTO-MTR,	WII	ID INFOR	MATION	DEMARKS
ID	INITIALS	TIME	TIME	PPM	CC/MIN	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
1	UP	0845	09/0	4	333	Y	5	7	
2	612	0845	0910	2	1	4	5	7	
_3	mo	0845	0910	5		4	*	7	
4	Sp	0845	0910	3		y	5	7	
5	JW	0845	0910	3		4	5	7	
6	12	0845	09/0	2		4	5	7	
7	OP	0910	0935	Y		ý	8	19	
8	GR	1910	11935	5		Ý	8	3	V-
9	MP	0910	0835	2		У	3	1	
10	Sp	0410	1435			4	8	1	
1/	TW	0910	0935	3		4	8	7	
12	Q2	1910	11935	7		9	8	7	
13	DP	8935	1000	5		9	Ž	7	
14	GIR	0935	1000	3		4	Ŋ	Ý	
15	MP	0935	1000	3		4	1	ń	
16	Sp	0935	1000	۷		Ÿ)	j	
17	Tw	0935	1000	1		4	1	7	
18	J5	0935	1000	4		Ÿ	7	Ÿ	
19	SH	1000	1125	5		Y	la	7	
20	OP	1000	1025	2		9	7,	7	
21	GIR	1000	1025	5		9	6	7	
22	MP	1000	1075	3		4	6	1	10.
23	Sp	1000	WZ5	3		4	6	ń	
7.4	JU	1000	1025	ጌ		4	ь	7	
15	JS	low		5		ÿ	12	7	
26	SH	1025	1050	3		Ý	6	K	
27	OP	1DTK	1050	2		Y	Ь	8	
28	GR	1025	1000	4		4	6	X ,	
29	MP	1025	1050	t		ÿ	6	8	To the second se
30	SP		1050	3	N.	u	Ĭ	Ý	

Attach Calibration Sheet
Attach site map showing grid ID

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Personnel: S. Hershey	M. partide	I-spicer
Graphus	J. Lusson	Cal. Gas Exp. Date: 179-23
Date: <u>/レー1マーマ</u> Instrum	nent Used: ISSI-7	Grid Spacing: 25
Temperature: 70 Prec	ip: - Upwind BG: /	Downwind BG: 2

GRID	STAFF	START	STOP	тос	ROTO-MTR,	WIN	ID INFOR	MATION	REMARKS
ID	INITIALS	TIME	TIME	PPM	CC/MIN	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REPIARRS
31	JW	1025	1050	4	333	4	6	8.	
52	Je	1075	1050	2		У.	6	8	
33	SH	1200	1225	3		7	9	8	
34	OP	1200	1225	2		1 4	Q	8	
35	InR	1200	1225	2		4	9	8	
36	MP	1200	1225	5		4	y	8	
37	SP	1200	1225	5		9	9	8	
38	JW	1200	1225	1		9	9	ð	
34	J5	1700	1225	z		y'	q	8	
40	SH	1225	1250	Y		9	ρ̈́	9	
41	DP	1225	1750	6		<u> </u>	10	9	
42	GAR	1225	1250	3		9	h	7	
43	Mp	1225	120	2		Ч.	19	9 1	
44	Sp	1225	1250	5		4	10	7	
45	JW	1225	1200	Ь		9	lo	9	
46	JS	1225	1250	7		4	10	9	
47	SH	1250	1315	Z		. 4	10	9	
48	OP	1250	1315	Y		9	10	G	
49	GIR	1250	1315	4		9	19	9]	
23	Mp	1250	1315	١		9	10	9	
51	SP	1250	1315	2		7	D	9	
52	Tw	1250	1315	6		4	10	9	
53	JS	120	1315	3			10	9	
59	SH	1315	1340	7		9	10	Y	
55	Op	1315	1340	4		4	12	9	
56	COR	1315	1340	2		9	15	9	
57	Mo	1315	1540	5		9	10	q	
58	50	1815	1340	3		9	10	9	
59	JW	1315	1340	6		4	Ю	9	
60	JS	1315	1340	6		वा	10	9	

Attach Calibration Sheet

Attach site map showing grid ID

Page _ **3** of <u>3</u>

Person	inel: <u>5.+</u>	tersing	4		M. partida			J-Sp:wer Cal. Gas Exp. Date: 1-19: 23			
	Con	Cablus	۲,	<u> -</u> 옷	poper			Cal Gae Eve	2 Data: 1 19 P3		
Date	e: <u>70 - 72</u>	- 4	Instrumer	nt Used:	155 1-7		Grid S	pacing: _{	25		
Tem	Temperature: 10 Precip: 0 Upwind BG: 1 Downwind BG: 2										
GRID	STAFF	START	STOP	тос	ROTO-MTR,	WIN	ID INFO	RMATION	DEMARKS		
[D	INITIALS	TIME	TIME	PPM	CC/MIN	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS		
61	SH	1346	1405	5	333	4	6	10			
62	Op	1340	1405	Š	1	9	6	lo			
63	GIR MP SP JW	1340	1405	3		4	6	[2			
64	MP	1340	1405	4		4	b	10			
65	Sp	1340	1405	2		Y	b	to.			
66	JW	1340	1405	5		4	6	12			
67	03	1340	1465	8	V	9	6	10			
						•					
						=					

Attach Calibration Sheet Attach site map showing grid ID

Page <u>3</u> of <u>3</u>

Personnel: Mi o Rus	J. Spicer M. Partida	Gilberte Ribles
S. Pope	J. Wesson	Cal. Gas Exp. Date: 6/4/22
Date: 10-13-21 Instrum	ent Used: <u>TSS1-7</u>	_ Grid Spacing:ZSFT
Temperature: 52° Preci	p:O Upwind BG:	3 Downwind BG: 4

GRID	STAFF	START	STOP	тос	ROTO-MTR,	WIN	ID INFOR	MATION	REMARKS
1D	INITIALS	TIME	TIME	PPM	CC/MIN	AVG '	MAX. SPEED	DIRECTION 16 POINT	REMARKS
68	MO	0730	0745	10	333	4	4.	_/}	
69	OP	6730	0795	5		1 9	b	12	
70	SP	0730	0755	5		1 4	b	17	
71	JS	0730	0755	19		Y		12	
72	mp	0730	0755	11		Y	1	17	
173	JW	0730	0755	6		Ψ	J_L	IL.	
74	GR	0730	0755	5		4	6	12	
75	Mo	0755	0820	5		1 4	6	从	
76	OP	0755	0820	6		4	6	1/2	
77	50	0755	0820	9		9	b	14	
78	JS	0755	0820	8		4	6	12	
79	mp	0755	0870	4		1	b	12	
80	TW	0755	0820	6		9	L L	八	
81	GR	0755	0820	5		4	b	12	L
82	Mo	0820	0845	8		4	lo	1),	
83	06	0820	0845	_8		4	Б	12	
84	SP	0520	0845	10		y	6	12	
85	JS	0820	0845	9		Ų	6	1	
86	mp	0826	0845	12		Ļ	6	L	
87	JW	0820	0845	14		1 4	6	12	
88	6R	0820	0845	14		ľ	6	12	
89	Mo	0845	0910	10		4	8	I)	
90	OP	0845	0910	6		9	8	1	
91	SP	0845	0910	5		Ÿ	8	1)_	
92	JS	0845	0910	10		Ý	Y	12	
93	mp	0845	0910	12		4	8	12	
94	JW	0845	0910	8		y	8	12	
95	GR	0845	0910	8		Ÿ	Ý	12	T
96	Mo	0910	0935	8		ģ	7	11.	
97	OP	0910	0935	15		ч	7	12	
-	h Calibrat							-	

Attach Calibration Sheet

Attach site map showing grid ID

Personnel: M. ORVE		spieer		G. RiBles	
S. PoA'.		WUSSON		Cal. Gas Exp. Date:	6-4-22
Date: 10-13-21 Instru	ment Used: _	ISS, 1-7	Grid s	Spacing: 25 FT	
Temperature: _60° Pre	cin: O	Unwind BG:	2	Downwind BG:	u

GRID	STAFF	START	STOP	TOC	ROTO-MTR,	WII	ID INFOR	MATION	DEMARKS
ID	INITIALS	TIME	TIME	PPM	CC/MIN	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
98	50	0910	0935	7	333	4	8	12	
99	J5	0910	0935	6		ÿ	8	W.	
100	mp	0910	0935	10		4	Š	1)	
101	JW	0910	0935	15		ų	Ý	72	
loz	GR	0910	0935	12		y'	V	10	
1103	mo	0935	1000	10		9	8	12	
104	OP	0935	1000	10		4	3	12	
105	SP	0935	1000	9		Ý	8	TI I	
106	JS	0935	lone	8		Ý	8	72	7110
107	mp	0935	1000	7		Ý	8	12	
108	JW	0935	1000	9			8	72	
109	GR	0935	1000	6		Ч	8	12	
110	mo	1000	1025	6		9	8	12	
111	OP	1000	1025	9		4	8	JI.	
112	Sρ	1000	1025	6		4	8	1L	_
113	JS	1000	1025	14		Ý	8	1人	
114	mρ	1000	1025	14		4	8	1	77
115	JW	1000	1025	5		4	8	14	
116	GR	1000	1025	10		y'	8	12	
117	mo	1025	1050	B		Ÿ	8	12	
118	OP	1025	1050	6		Ý	8	12	
119	SP	1025	1050	6		Ÿ	8	2	
120	J.S.	1025	1050	8		Ÿ	8	14	
121	mρ	1025	1050	7		У	3	12	
12.2	The	107.5	1050	7		4	Š	14	
123	GR	1025	1050	6		V	8	12	
124	ma	1050	1115	5		ď	8	龙	
125	OP	1050	1115	4		4		12	
126	SP	1050	1115	6		4	8	12	
127	JS	1050	1115	8		- tr	8	12	

Attach Calibration Sheet

Attach site map showing grid ID

Page <u>2</u> of <u>3</u>

Personnel: M. owe	M. Artida	G. RiBles	
S. Pape	J. WESSON	Cal. Gas Exp. Date:	6-4-22
Date: 10-13-7 Instrum	ent Used: <u> </u>	Grid Spacing:75FT	
Temperature:70° Preci	p: O Upwind BG:	3 Downwind BG:	4

GRID	STAFF	START	STOP	тос	POTO-MTP	ROTO-MTR, WIND INFORMATION		REMARKS	
ID	INITIALS	TIME	TIME	PPM	CC/MIN	AVG '	MAX. SPEED	DIRECTION 16 POINT	REMARKS
128	MP	1050	1115	6	333	4	3	12	
129	JW	1050	1115	8		1 9	8	IL.	
136	GR	1050	1115	6		4	8	12	
131	Mo	1215	1240	6		7	4	从	
132	oP	1215	1240	5′		3	Ú	12	
//33	SP	1215	1240	7		(5,	4	11	
_134	J.5	1215	1240	6)	Y	1)	
135	mp	1215	1240	5		ے	У.	12	
136	JW	1215	1240	7		2	4-	12	
137	GR	1215	1240	6		3	4.	12	
138	mo	1240	1305	5		3	Ÿ	1)	
139	OP	1240	1305	8		3	4	Ď	
140	58	1240	1305	14		3	4	D	
141	JS	1240	1305	6		כ	Ÿ	۵	
142	mp	1240	1305	5		С	4	D	
143	Jω	1240	1305	5		C	4	B	
144	GR	1240	1305	10		2	4	B	
145	MO	1305	1330	8		y	5	D L	,
146	oρ	1305	1330	6		Ÿ	5	۵	
147	SP	1305	1330	5		У	5	13	
148	JS	1305	1330	6		4	5	13	
149	mp	1305	1330	6		Ÿ	2	13	
150	JW	1305	1330	5		4	2	13	
151	GR	1305	1330	7		'Y	5	D	
152	mo	1330	1355	6		ų	6	Ü	
153	OΡ	1330	1355	5		Ý	Ь	מ	
154	Sρ	1330	1355	6		4	7	D	
155	J3	1330	1335	8		4	6	ä	
156	mp	1330	1355	9		Ÿ	t	D	

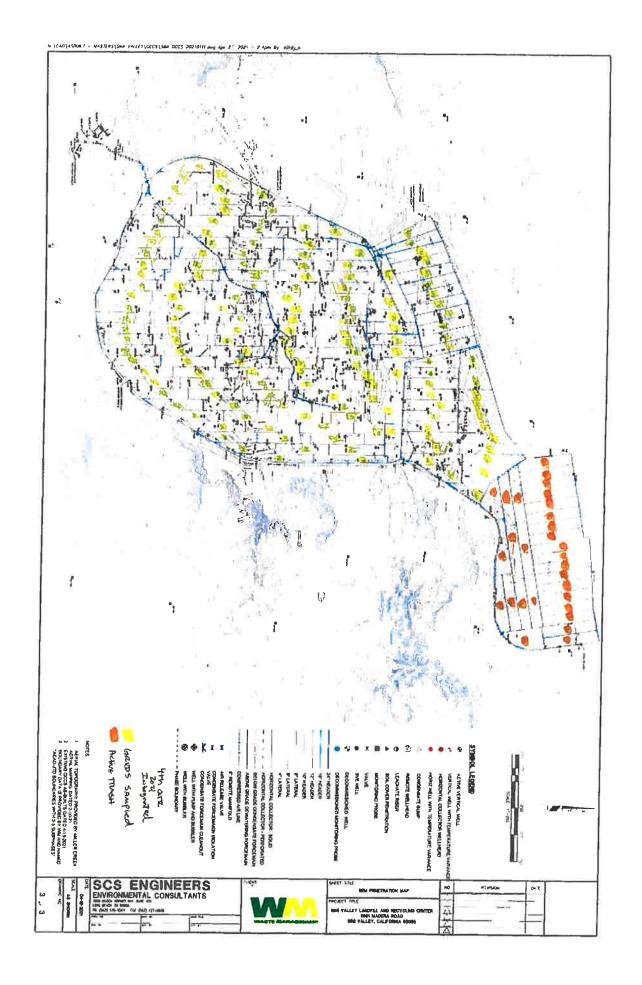
Attach Calibration Sheet Attach site map showing grid ID

Page <u>3</u> of <u>3</u>

Person	nel: <u>M.o</u>	RUE								
								Cal. Gas Exp.	Date:	
Date	≥: <u>10-13-</u>	<i>zı</i> I	nstrumer	nt Used:			Grid St	oacing:		
Tem	perature:		_ Precip:		Upwind E	BG:		Downwind	BG:	
GRID	STAFF	START	STOP	тос	ROTO-MTR,	MIN	ND INFOR	MATION	REM	IARKS
ID	INITIALS	TIME	TIME	PPM	CC/MIN	AVG SPEED	MAX. SPEED	DIRECTION 16 POINT		
157									Actuic	TIZASIA
158	-									
159			\vdash							
160				-						
162			-		-					
163					-					
164			\vdash							
165					<u> </u>	 				
166						\vdash		-		
167						\vdash				
168						\vdash				
169									- 1	
170					77		-			
171		E								
172								377		
173										-
174										
175										- 37
176										
177										
178										
179										
180										
181										
182										
183										
184										10
185									V	1

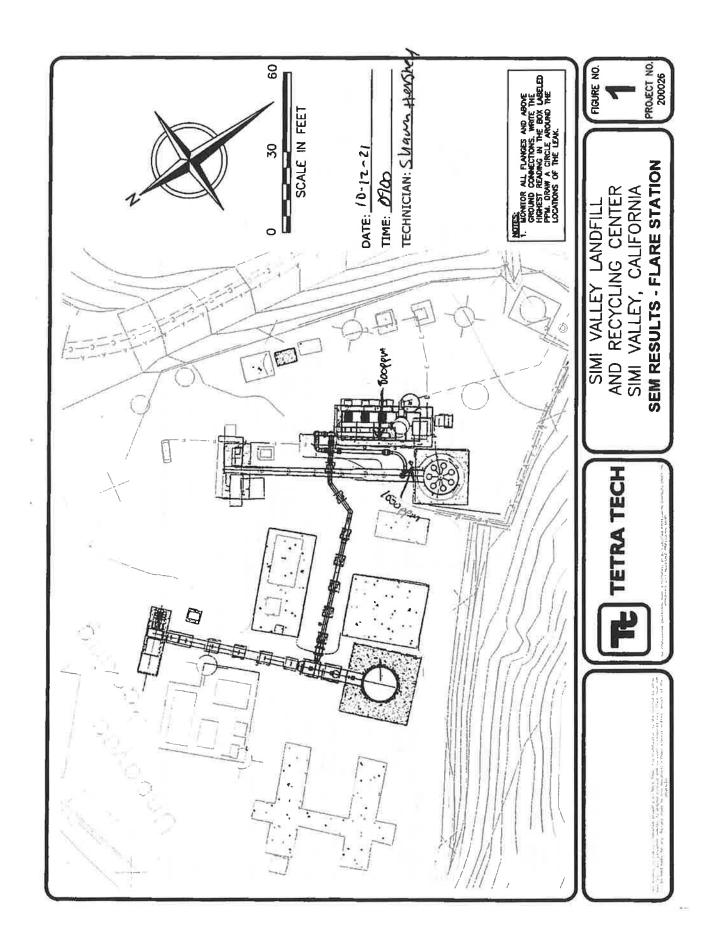
Attach Calibration Sheet Attach site map showing grid ID

Page 1 of 1



Attachment C

Component Leak Monitoring Event Records



LANDFILL NAME: QUARTERLY LFG COMPONENT LEAK MONITORING

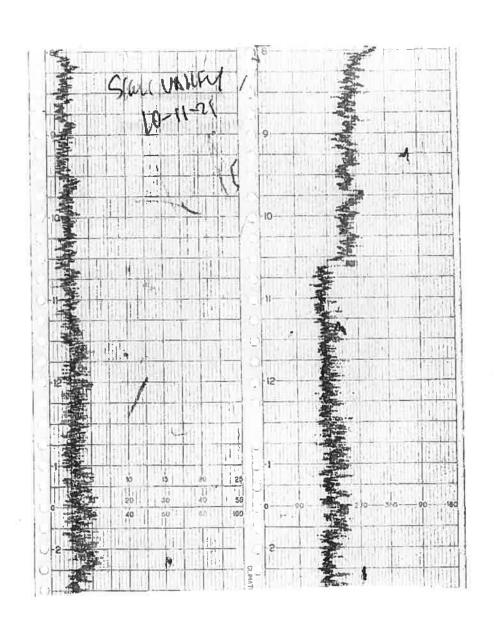
INSTRUMENT FIL MAKE: Themo Erviron MODEL: TVA 1000 SN: {65 24732

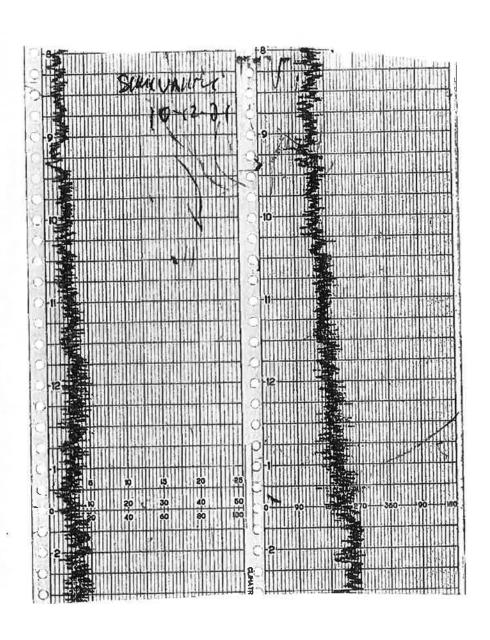
DATE OF SAMPLING: 10-12-21 TECHNICIAN: Shown Hearshary

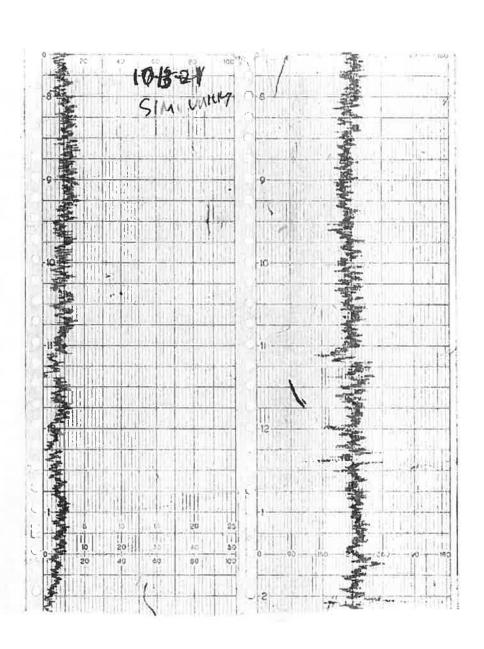
	RE-MONITORED CONCENTRATION (ppmv)	86	
	DATE OF ANY REQUIRED RE- MONITORING	12-12-01	
	DATE OF REPAIR		
-	ACTION TAKEN TO REPAIR LEAK		
	TECHNICIAN	Shoughtershough	
	DATE OF DISCOVERY	12-21-01	
	LEAK CONCENTRATION (ppmv)	जिक्का स्थाप अभिनेत्र	
	LOCATION OF LEAK	Frant Let Thank	

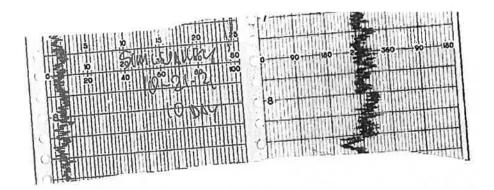
Attachment D

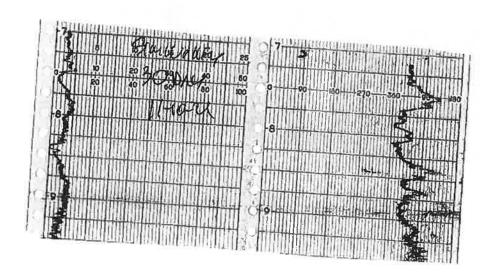
Weather Station Data













	16-POINT V	VIND DIRECTION	INDEX	
<u>NO</u>	DIRECTION		DEGREES	
		FROM	<u>CENTER</u>	<u>TO</u>
16	NORTH (N)	348.8	<u>369,0</u>	0.13
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	090,0	101.3
5	EAST-SOUTHEAST (ESE)	101.3	112.5	123.8
6	SOUTHEAST (SE)	123.8	135.0	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	<u>157.5</u>	168.8
8	SOUTH (S)	168.8	180.0	191,3
9	SOUTH-SOUTHWEST (SSW)	191.3	<u>202.5</u>	213.8
iv	SOUTHWEST (SW)	213.8	<u>225.0</u>	£30,3
11	WEST-SOUTHWEST (WSW)	236,3	<u>247.</u> 5	258.8
12	WEST (W)	258.8	270.0	281.3
13	WEST-NORTHWEST (WNW)	281,3	<u>292.5</u>	303,8
14	NORTHWEST (NW)	301,8	315.0	326.3
15	NORTH-NORTHWEST (NNW)	326.3	<u>337,5</u>	348,8

Attachment E

Calibration Records

Environmental Inc.

CALIBRATION	PROCEDURE	AND BACKGROUND	REPORT -	INSTANTANEOUS

LANDFILL NAME: Sim	: ValleyEQUIPMENT#:		NT MAKE	лечио 0720723626
MONITORING DATE: 10			0755	
2. Introduce calibrati	o zero itself while introducing a on gas into the probe. Stabiliz ngs to read 500 ppm.		7 <u>80</u> ppm	
Background Determination	on Procedure			
Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background V	10120	
) ppm	2 ppm	7	ppm	

Background Value = 1-5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement#	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	201 bbw	450 ppm	10
#2	200 bbw	AZO bbw	11
#3	SOU ppm	YSV ppm	9
	Calculate Response Time (1	+2+3)	10 #DIV/0I
			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 [STO – (B)]
#1	O. a ppm	281 bbu	501,00
#2	0.0 ppm	500 ppm	500.00
#3	10 ppm	500 ррт	498.00
Calculate Precision	on [STD-B1] + [STD-B2] + [S	5TD-B3] X 1 X 100 500 1	#DIV/0! Must be less than 10%

Performed By: Shaw Hero Wy	Date/Time:	10-11-21	/a755
• • • • • • • • • • • • • • • • • • • •		/	

Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

LANDFILL NAME: <u>Simi u</u>	alley	I	NSTRUM	ENT MAKE: 72	evno
MODEL: TVA 1000	EQUIPMENT #: _	5		SERIAL #:	4911480
MONITORING DATE: _/ひー	11-21	«ı;	TIME:	0255	
Calibration Procedure:					
1. Allow instrument to ze	ero itself while introducin	g air.			
Introduce calibration g	gas into the probe. Stab	ilized rea	ding =	SOO ppm	

Background Determination Procedure

Adjust meter settings to read 500 ppm.

Reading:	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2
/ ppm	2 ppm	3 ppm

Background Value = 1-5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	20.3 bbw	450 ppr	n <i>g</i>
#2	201 bbw	450 ppn	11
#3	20 / bbu	450 ppn	10
	Calculate Response Time (1-	2+3)	/O #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	Z.O ppm	503 ppm	501.10
#2	2.0 ppm	537 ppm	489.00
#3	leo ppm	50/ ppm	501.00
Calculate Precisio	in [STD-B1] + [STD-B2] + [S	500 1	#DIV/0

Performed By: Shirum Harshle	Date/Time:	10-11-01	10755
1			

RING - in Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

3

MODEL: TVH 1000	EQUIPMENT #:	0	SERIAL #: 163/	P830
MONITORING DATE:	10-18-21	TIME:	0755	
Introduce calibral	to zero itself while introducing a tion gas into the probe. Stabilize ings to read 500 ppm.		ОО ррт	
Background Determinati	on Procedure			

ppm

3

ppm

	^	
Background Value =	3	ppm

INSTRUMENT RESPONSE TIME RECORD

ppm

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	SUS bbw	450	ppm	10	
#2	COO bbu	450	ppm	10	
#3	501 ppm	450	ppm	10	
	Calculate Response Time (1.3)	+2+3)		10	#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	1. U ppm	502 ppm	571-60
#2	/, o ppm	800 ppm	499-00
#3	1-0 ppm	Mdd (28	500-00
Calculate Precision	on <u>[STD-B1] + [STD-B2] + [</u> 5	500 1	#DIV/0

Performed By: Shawa	Hershey

Date/Time: 10-11-21/0755

558



CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

LANDFILL NAME: Size MODEL: TVA 1000 MONITORING DATE: 10	EQUIPMENT #:	INSTRUMENT MAKE: SERIAL TIME: 0255	# 15865889
Introduce calibrati	o zero itself while introducing on gas into the probe. Stabilizings to read 500 ppm.		
Upwind Background Reading: (Highest in 30 seconds) Downwind Background Reading: (Highest in 30 seconds)		Background Value: (Upwind + Downwind) 2	
1 ppm	2 ppm	2 ppm	

INSTRUMENT RESPONSE TIME RECORD

Background Value □

2

_ ppm

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	SUI ppm	450 ppm	10	
#2	201 bbw	450 ppm	12	
#3	501 ppm	450 ppm	8	
	Calculate Response Time (1	+2+3)	LO #DIV/01	
			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	1-50 ppm	50(ppm	411-50	
#2	· SO ppm	501 ppm	30.50	
#3	-50 ppm	SO1 ppm	500.60	
Calculate Precisio	n <u>[STD-B1] + [STD-B2] + [</u>		#DIV/0! Must be less than 10%	

Performed By: Jhaw4	1 Hershey	Date/Time;	10-11-21	10255
	7		/	

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INS	TANTANEOUS
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LANDFILL NAME: 5:44:	valley	INSTRUMENT MAKE Therms		henno	
MODEL: TVA 1000		1		SERIAL#	16320832
MONITORING DATE: 10-	17 - 21	-	TIME: _	0758	
Calibration Procedure:					
1 Allow instrument to ze	ero itself while introducin	g air.		_	

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Backg Reading: (Highest in 30 secon		Background Valo	
į pp	n 3	ppm	3	ppm

2 Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3 Adjust meter settings to read 500 ppm

Background Value = ____3 ___ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	1	Time to Reach 90 Stabilized Readir switching from Z Calibration Gas	ng after
#1	SO) ppm	450	ррm	8	
#2	500 ppm	450	ppm	10	
#3	Sol ppm	750	ppm	12	
2 47 6	Calculate Response Time (1	+2+3)		10	#DIV/0!
				Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	0,50 ppm	201 bbw	22/0 -20
#2	0-0 ppm	200 bbw	500.00
#3	1-0 ppm	501 ppm	00.002
Calculate Precision	on <u>[STD-B1] + [STD-B2] + [</u> 3	5TD-B3] X 1 X 100 500 1	#DIV/01

Performed By: Shaw Hursley	Date/Time:	00-11-21/0755
Performed By: Shaw Hersley	Date/Time:	20-11-21/0755



CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

SERIAL #: 7784545
eading = <u>SOO</u> ppm
(Upwind + Downwind)

INSTRUMENT RESPONSE TIME RECORD

Background Value = ___

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading		Time to Reach 9 Stabilized Read switching from Calibration Gas	Ing after Zero Air to
#1	205 bbw	490	ppm	12	
#2	500 ppm	450	ppm	7	
#3	500 ppm	450	ppm	LO	
	Calculate Response Time (1-3	2+3)		lo	#DIV/0!
				Must be less then	30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD (B)]
#1	O.O ppm	S ppm	502-00
#2	(-O ppm	See ppm	429-00
#3	/- o ppm	5UD ppm	498-00
Calculate Precisio	n <u>[STD-B1] + [STD-B2] + [S</u>	STD-B3] X 1 X 100 500 1	#DIV/0

Performed By: Shigun thership	Date/Time: 10-11-21/025
/	



CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

ANDFILL NAME: _SiL		(N:	SIKUME	NT MAKE: Thermo
MODEL: TVA LOW	EQUIPMENT #:	_7_		SERIAL #: 1720723626
MONITORING DATE:	10-11-21		TIME:	0755
Calibration Procedure:				
Allow instrument	to zero itself while introducing	ng air		
Allow instrument	to zero itself while introducir tion gas into the probe. Stat	ng air bilized read	ling ≂	500 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2
2 ppm	3 ppm	\$ ppm

Background Value = 15 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading		Time to Reach 90% Stabilized Reading switching from Zea Calibration Gas	after
#1	501 ppm	450	ppm	w	
#2	50z ppm	450	ppm	10	
#3	SUZ ppm	५५०	ppm	10	
	Calculate Response Time (1-	+2+3)		10	#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	/rO ppm	SDI ppm	500.00
#2	20 ppm	SOZ ppm	500.00
#3	(.o ppm	802 ppm	\$01.00
Calculate Precision	(STD-B1] + (STD-B2] + (S	500 1	#OIV/0! Must be less than 10%

Performed By: Shawin	Housey

Date/Time: 10-11-21/0755

558

Environmental in

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INST	TANTANEOUS
--	------------

LANDFILL NAME: Sim	valley	INSTRUMEN	NT MAKE: Thermo	
MODEL: TVA 1000 MONITORING DATE:	EQUIPMENT #:	6	SERIAL#: 07207256	26
Introduce calibrati Adjust meter setti	to zero itself while introducing ion gas into the probe. Stabilings to read 500 ppm.	air: zed reading =	7 <u>00</u> ppm	
Background Determination				
Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Va		
∮ ppm	2 ppm	2	ppm	

INSTRUMENT RESPONSE TIME RECORD

Background Value = _

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading		Time to Reach 90 Stabilized Readin switching from Zi Calibration Gas	g after
#1	SOZ ppm	450	ppm	7	
#2	SOZ ppm	५६०	ppm	10	
#3	571 ppm	450	ppm	13	
	Calculate Response Time (1-	+2+3)		10	#DIV/0!
				Must be less than 3	0 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	Leo ppm	Sus bbw	\$01.00
#2	150 ppm	502 ppm	501,50
#3	(-O ppm	SU(ppm	500,00
Calculate Precisio	n [STD-B1] + [STD-B2] + [S		#DIV/0I Musi be less than 10%

Performed By: Shawn Harshy	Date/Time: 10-12-21/0755
	7



CALIBRATION PROCEDURE	AND BACKGROUND REPORT	INSTANTANEOUS
CALIBRATION FROCEDURE	AND BACKGROUND REPURI	- ING I AN I ANEUUS

LANDF	TLL NAME: Simi Valley		NSTRUM	ENT MAKE Thermo
MODE	ILL NAME: <u>Simi valley</u> L <u>TVA 1000</u> EQUIF	PMENT #: 5		SERIAL #: 49 19480
MONIT				100
MUNIT	ORING DATE: <u>10-11-21</u>		TIME: _	0755
	ation Procedure:	e introducino eir	TIME:	0735
			_	

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2
[ppm	3 ppm	ppm

Background Value = 3 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	.502 ppm	450 pp	m 10
#2	5700 ppm	450 pp	m 12
#3	20S) bbw	450 pp	m y
	Calculate Response Time (1-3	+2+3)	10 #DIV/0!
			Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air	(A) Meter Rea Calibration		Calculate Precision [STD - (B)]
#1	,50 P	pm	502 ppr	501.50
#2	•50 P	pm .	STO PPT	
#3	+0 P		500 ppr	
Calculate Precision	on [STD-B1] + [STD-B2] 3		1 X <u>100</u> 500 1	#OIV/0I Must be less than 10%

				_
Performed By: Jugun Hersluy	Date/Timo:	10-12-2	1/0755	

CALIBRATION	PROCEDURE	AND BACKGROUND REPORT	- INSTANTANEOUS
-------------	-----------	-----------------------	-----------------

LANDFILL NAME: Simi Valley	INSTRUMENT MAKE: Thermu		
MODEL: Tra- Laso EQUIPMENT #:	4	SERIAL #:_	16319830
MONITORING DATE: 10-12-21	TIME:	0753	
		-0.1 1002	

Calibration Procedure:

Background Determination Procedure

Reading:	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2	
ppm	Z ppm	3	ppm

Background Value = 1.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Callbration Gas Reading		Time to Reach 90 Stabilized Readin switching from Z Calibration Gas	ng after
#1	SUZ ppm	450 ppm	12	7
#2	SOZ ppm	450 ppm	8	
#3	500 ppm	450 ppm	10	
	Calculate Response Time (1	+2+3)	10	#DIV/0!
			Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1,0 ppm	Sb2 ppm	501.00
#2	150 ppm	SO2 ppm	501.50
#3	1.10 ppm	SOO ppm	499-00
Calculate Precision	n [STD-B1] + [STD-B2] + [S	500 1	#DIV/0 Must be less than 10%

Performed By: Shawn Hiershey	Date/Time	10-12-21	10755	
------------------------------	-----------	----------	-------	--

CALIBRATION	PROCEDURE	AND BACKGROUND REPORT	- INSTANTANEOUS
CULTATION	LICOLLOUILL		- INO I WIS I WISE OUG

LANDFILL NAME: Sim, valley	INSTRUMENT MAKE Thermo
MODEL: TUALOO EQUIPMENT #:	3 SERIAL # 15865889
MONITORING DATE: 10-12-21	TIME: 0155
Calibration Procedure:	

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	ading: Reading:	
/ ppm	3 ppm	3 ppm

<u>گ____ ppm</u> Background Value = ___

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using 90% of the Stabilized Calibration Gas Reading		Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	502 ppn	1 450 ppr	10
#2	501 ppn		8
#3	500 ppn	450 ppr	12
	Calculate Response Time (1+2+3) 3	10 #DIV/0!
			Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	, 50 ppm	SOZ ppm	501.50
#2	1.50 ppm	501 ppm	499-50
#3	1.0 ppm	500 ppm	499-50
Calculate Precision	on <u>[STD-B1] + [STD-B2] + [</u> 3	500 1	#DIV/0! Must be less than 10%

Performed By _ Shawn	Hershey	Date/Time: 0755/10-12-21

Environmentation.

CALIBRATION PROCEDURE AND BACKGROUND REPORT - IN	NSTANTANEOUS
--	--------------

_ANDF	ILL NAME: Simi Valley	INSTRUMENT MAKE: 1	ermo
	TVA 1000 EQUIPMENT #:		7784545
TINON	ORING DATE:10-12-21	TIME: 0755	
		IIME: <u>0755</u>	
	tion Procedure:	11MC: <u>0755</u>	
	tion Procedure:		
		gair	

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2
(ppm	Z ppm	Z ppm

Background Value = 2 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilize Reading	ed	Time to Reach 9 Stabilized Readi switching from a Calibration Gas	ing after Zero Air to
#1	500 ppm	450	ppm	7	*
#2	571 ppm	450	ppm	/3	
#3	SZIO PPM	450	ppm	10	
	Calculate Response Time (1	+2+3)		10	#DIV/0!
				Must be less than	30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	,50 ppm	5∞ ppm	489.50
#2	1.0 ppm	50/ ppm	500.00
#3	· ZO ppm	500 ppm	49.9.50
Calculate Precision	(STD-B1) + (STD-B2) + (S	500 1	1 / #DIV/0! Must be less than 10%

Performed By: Shown Havs	hey Dato/Timo:	10-12-21/	0755
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CALIBRATION	PROCEDURE	AND BACKGROUND	DEDORT -	METANTANEOUS
CALIBRATION	PROCEDURE	AND BACKGROUND	KEPUKI -	INSTANTANEUUS

MODEL: TVA LOOD	EQUIPMENT #:	1 SERIAL # / 6370832
MONITORING DATE: 16	12-21	TIME: 6755
Calibration Procedure:	o zero itself while introducing a	
Introduce calibrati	on gas into the probe. Stabilizatings to read 500 ppm.	
Introduce calibrati Adjust meter setting	on gas into the probe. Stabilizeings to read 500 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	501 ppm	450 ppm	8
#2	29(bbw	450 ppm	12
#3	502 ppm	450 ppm	10
	Calculate Response Time (1-3	+2+3)	10 #DIV/01
			Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision (STD – (B))
#1	0-0 ppm	701 ppm	501-00
#2	1.0 ppm	SOI ppm	<u>ζ</u> αν ω
#3	l.o ppm	502 ppm	501.00
Calculate Precision	STD-B1] + [STD-B2] + [3	STD-B31 X 1 X 100 500 1	#DIV/0I

Performed By: Shown thershey	Date/Time	10-12-21/0255
Performed By: Shown Hershey	Date/Time	10-12-21/0755

	OCEDURE !						
LANDFILL NAME	Simi v	sulley		INSTRUMENT MAK	Œ	Nemo	
MODEL TVA	1000	EQUIPMEN	VT #:	€ 7 se	ERIAL	#:	
MONITORING DATE	E:	12-21		TIME: 07	55		
Calibration Proced							
Allow instru		e itaali oolia tak					
Introduce c	alibration ga	es into the probe read 500 ppm.	a. Stabiliz	air. zed reading = <u>500</u>	_ ppm		
Background Detern	mination Pr	ocedure					
Upwind Backgrou Reading:		wnwind Backg	round	Background Value:			
(Highest in 30 secon		iding: pleat in 30 secon	ıds)	(Upwind + Downwing 2	0		
1	ppm	2	ppm	2	ρpm		
Background Value	2 =	ppm					
INSTRUMENT RESI	PONSE TIM	E RECORD					
Measurement #	Stal	bilized Reading	Using	90% of the Stabilized	-	Time to Reach 90	% of
	Cali	bration Gas		Reading		Stabilized Reading after switching from Zero Air to Calibration Gas	
#1		503	ppm	५५०	ppm	&	122
				450	ppm	12	
#2		500	ppm	150	ppiii		
#3		501	ppm	450	ppm	10	
	Calcuta		ppm Filme (1	130		10	#DIV/0I
#3		50/ ite Response 1	ppm Filme (1	Y50		10	
#3 CALIBRATION PRE	CISION RE	50 / ate Response 1	ppm Filme (1	Y50		10	
#3 CALIBRATION PREC	CISION REG	50 / ate Response 1 CORD	ppm Fime (1	(50 (50 (1+2+3)	ppm	LO LO Must be less than	30 seconds
#3 CALIBRATION PREC	CISION REG	50 / ate Response 1 CORD	ppm Fime (1	Y50	ppm	10	30 seconds
#3 CALIBRATION PREC	CISION REG	SO (ate Response 1 CORD pm	ppm Fime (1	(50 l+2+3) Meter Reading for Calibration Gas (B)	ppm	LO LO Must be less than	30 seconds
#3 CALIBRATION PRECENT OF STREET PROPERTY OF STREET PROPERTY OF STREET PROPERTY OF STREET PROPERTY #	CISION REG	SO (ate Response 1 CORD pm ading for Zero	ppm Fime (1	Meter Reading for Calibration Gas (B)	ppm	Must be less than:	30 seconds
#3 CALIBRATION PRECallbration Gas Standa Measurement #	CISION REG	SO / ate Response 1 CORD pm ading for Zero	ppm Fime (1	Meter Reading for Calibration Gas (B) 503 ppm 500 ppm	Cai	Must be less than surface Precision [S	30 seconds
#3 CALIBRATION PREC Calibration Gas Standa Measurement # #1 #2	CISION REI ard = 500 p Meter Rei	SO (ate Response 1 CORD pm ading for Zero	ppm Fime (1 3 Air (A) ppm ppm ppm ppm	Meter Reading for Calibration Gas (B) 503 ppm 500 ppm	Cai	Must be less than:	30 seconds 3TD - (B)] #DIV/01

CALIDRATION	PROCEDURE	AND DACKCOOL	IND DECODE	- INSTANTANEOUS
CALIBRATION	PROCEDURE	AND BACKGROU	IND REPURI	- INSTANTANEOUS

LANDFILL NAME: SIMI VAURY		INSTRUMENT MAKE: TVA 1000			
MODEL: THEZWO	EQUIPMENT #:	33	SERIAL #: 00004/1015		
MONITORING DATE	11-10-21	TIME	0730		

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.

Introduce calibration gas into the probe. Stabilized reading = <u>SOO</u> ppm
 Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Backgr Reading: (Highest In 30 sec		Downwind Background Reading: (Highest in 30 seconds)		Background Valu (Upwind + Down 2	Vac W	
2.3	ppm	2.5	ppm	2,4	ppm	

Background Value = 2, 4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading U Calibration Gas	bilized Reading Using 90% of the Stabilized Reading Reading		zed	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas	
#1	500	ppm	450	ppm	5	
#2	501	ppm	450	ppm	6	
#3	503	ppm	450	ppm	Ч	
	Calculate Response Tim	ie (<u>1</u> -	+2+3)		5	#DIV/0!
					Must be less than	n 30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Z	ero Air (A)	Meter Reading for Calibration Gas (B)			
#1	0,49	ppm	500	ppm	0	
#2	0.61	ppm	501	ppm	1	-
#3	0.38	ppm	503	ppm	3	
Calculate Precision	on [STD-B1] + [S	3 3 TD-B2] + [STD-B3] X 1 X 500	100 1	O.)_ Must be less than	#DIV/01

Performed By:	P. MMIREZ	Date/Time:	0930	11-10-7-1	
Репогтеа ву:	1-1 10001102	Date/Time:	0110		_



CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

	FILL NAME: Simi Valley L: TVA 1000 EQUIPMENT #: 32	SERIAL #: _092853842	3
MONIT	TORING DATE: 10-2 - 2	TIME: _0700-	_
Calibra	ation Procedure:		
1, 2. 3.	Allow instrument to zero itself while introducing air. Introduce calibration gas into the probe. Stabilized of Adjust meter settings to read 500 ppm.	reading = <u>523</u> ppm	
Backg	round Determination Procedure		

2.5 ppm	3.8' ppm	3,/ ppm

Background Value = 3.1 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	505 ppm	450 ppm	6	
#2	Se3 ppm	450 ppm	5	
#3	Se3 ppm	450 ppm	6	
	Calculate Response Time (1-3	+2+3)	5.6 #DIV/01	
			Must be less than 30 seconds	

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zo	Pro Air (A)	Meter Reading for Catibration Gas (B)		Calculate Precision [STD – (B)]
#1	0.93	ppm	505	ppm	5
#2	0.89	ppm	503	ppm	3
#3	0.87	ppm	503	ppm	.3
Calculate Precisio	on [STD-B1] + [S	TD-B2] + [5	5TD-B3] X 1 X 500	100	4./% #DIV/0I

Performed By:		
The state of the s	Date/Time: 10 -21-21/ 0700	 558



CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS

LANDFILL NAME: Simi Valley	INSTRUMENT MAKE: THE MO
MODEL: TVA 1000 EQUIPMENT #: 32	SERIAL #: 0928538423
MONITORING DATE: 10-21-21	TIME: <u>0700-</u>

Calibration Procedure:

- Allow instrument to zero itself while introducing air.
 Introduce calibration gas into the probe. Stabilized reading = <u>\$503</u> ppm
 Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) 2
2.5 ppm	3.8 ppm	3./ ppm

Background Value = 3,1

INSTRUMENT RESPONSE TIME RECORD

Stabilized Reading Using Calibration Gas	90% of the Stabilit Reading	Des		after
Sys ppm	450	ppm	6	
nnm		ppm	5	
503 ppm		ppm	6	
Calculate Response Time (14			5.6	#DIV/0
	Calibration Gas SOS ppm SOS ppm	Calibration Gas Reading 505 ppm 450 503 ppm 450 503 ppm 450	Calibration Gas Ppm 450 ppm So3 ppm 450 ppm So3 ppm 450 ppm	Calibration Gas Reading Stabilized Reading switching from Ze Calibration Gas Sos ppm 450 ppm 6 Sos ppm 450 ppm 5 Sos ppm 450 ppm 6

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)		Meter Reading for Calibration Gas (B)		Catculate Precision [STD - (B)]
#1	0,93	ppm	505	ppm	5
#2	0.89	ppm	503	ppm	3
#3	0.87	ppm	503	ppm	3
Calculate Precisio		3 3		<u>100</u> 1	4./% #DIV/0!

(-11	10-			/	
Performed By:	in the	16.7	Date/Time:	10-21-211	0700	
	7	/				

558

CALIBRATION PROCEDURE	AND BACKGROUND REPORT -	INTEGRATED

	EQUIPMENT #:		MAKE:	0720723621
MONITORING DATE:	10-12-21	TIME	073	2
Calibration Procedure:				
1 Allow instrumen	to zero itself while introducing	air.		
Introduce calibra	to zero itself while introducing tion gas into the probe. Stabili		5 ppm	
Introduce calibra			\$ppm	
Introduce calibra	tion gas into the probe. Stabili tings to read 25 ppm		5ppm	
2 Introduce calibra 3 Adjust meter set Background Determination Upwind Background	tion gas into the probe. Stabilitings to read 25 ppm. ion Procedure Downwind Background			
Introduce calibra Adjust meter set Background Determina	tion gas into the probe. Stabili tings to read 25 ppm lon Procedure	zed reading = <u>&</u>	ue:	

1	ppm	2	ppm
Background Val	ue= //	ppm	

INSTRUMENT RESPONSE TIME RECORD

Measurement #	urement # Stabilized Reading Using Calibration Gas				Time to Reach 90 Stabilized Readir switching from Z Calibration Gas	g after
#1	25,1	ppm	22.5	ppm	6	
#2	25.8	ppm	22.5	ppm	5	
#3	25.9	ppm	22.5	ppm	5	
	Calculate Response 1	ime (<u>1:</u> 3	+2+3)		5,3	#DIV/0I
					Must be less than :	30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Zero Air (A) Meter Reading for Calibration Gas (B)			Calculate Precision [STD - (B)]	
#1	0,69	ppm	25,1	ppm	0.1	
#2	0.78	ppm	25.8	ppm	0.3	
#3	0.64	ppm	25,9	ppm	0.4	
Calculate Precision	on [STD-B1] + [S	3 + [S	STD-B3] X 1 X 25	100 1	1.0	#DIV/0l
					Must be less than	10%

Performed By:	OMBR PERAULA	Date/Time:	10-12-71	0730

RIDES Entronman al 1-

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME Simi VI	માસ્ય	INSTRUMENT MAKE THERMO	
MODEL: TVALOGO	EQUIPMENT #:	7 SERIAL # 0720723627	
MONITORING DATE: 10-13	-21	TIME:730	

Calibration Procedure:

- 1. Allow instrument to zero itself while introducing air
- 2. Introduce calibration gas into the probe. Stabilized reading = 25, 8 ppm
- 3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Baci Reading: (Highest in 30		Downwind Back Reading: (Highest in 30 seco		Background Value	
3.3	ppm	4.9	ppm	4.1	ppm

Background Value = _____ 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	26,5 ppm	22.5 ppm	6
#2	25,8 ppm	22.5 ppm	5
#3	25.8 ppm	22.5 ppm	6
	Calculate Response Time (1	+2+3)	5.6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Measurement #	Meter Reading for Z	Aro Air (A)	Meter Reading for Calibration Gas		Calculate Precision [STD - (B)]
#1	0.48	ppm	2615	ppm	1,5
#2	0,71	ppm	25.8	ppm	0.8
#3	0.87	ppm	25.8	ppm	0.8
Calculate Precision	on [STD-B1] + [STD-B2) + [1 <u>00</u> 1	O, Z 10 #DIV/0

Performed By Michael ORUS Date/Time 10-13-21 /0730	730
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CUSTOMER:	RESUNT #		
SERIAL NUMBER:	16320832		
TECHNICIAN:	The Apones	DATE:	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	Fi	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	(0,003	+/- 2500
<1	ZERO GAS	0.64	< 3
	Pil	0	-
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

CUSTOMER:	<u> </u>
SERIAL NUMBER:	
TECHNICIAN: The MBGITS	DATE: /0-2-2-(

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	F1	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	501	+/- 125
10000	10000	10, 100	+/- 2500
<1	ZERO GAS	0,45	<3
	Pil	0	
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

CUSTOMER: PIES VAID # 3	
SERIAL NUMBER: 15865 884	
TECHNICIAN: MARINE DATE:	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	Fil.	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	94	+/- 25
500	500	500	+/- 125
10000	10000	10,031	+/- 2500
<1	ZERO GAS	0.79	< 3
	PII	0	
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

CUSTOMER:	NES Vait	#4	
SERIAL NUMBER:	163198	30	<u>. </u>
TECHNICIAN:	UBIE YS	DATE:	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	Fi	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	Sao	+/- 125
10000	10000	10,021	+/- 2500
<1	ZERO GAS	0.65	< 3
	Pil	0	
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

CUSTOMER:	Plas Vay	+5
SERIAL NUMBER:	4919480	
TECHNICIAN:	M MBERES	DATE: 10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI:	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	(00	+/- 25
500	500	Sel	+/- 125
10000	10000	10,001	+/- 2500
<1	ZERO GAS	0.52	< 3
	Pil)	
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

CUSTOMER:		1/25 (In ut	#6	
SERIAL NUMBER	R:	07207236	126	
TECHNICIAN:	M	MBF15	DATE: _	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FII	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	494	+/- 125
10000	10000	10,126	+/- 2500
<1	ZERO GAS	6,79	< 3
	PI	D .	
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

CUSTOMER:	#7	700
SERIAL NUMBER: 0720723	627	
TECHNICIAN: M MORENTS	DATE: _	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,101	+/- 2500
<1	ZERO GAS	0,69	< 3
	Pil		
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	7	<3

CUSTOMER:	RES VOUT#	- 9	
SERIAL NUMBER:	0532113	801	 -
TECHNICIAN:	MBFINS	DATE: _	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FiD			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	LUIWOO	+/- 2500
<1	ZERO GAS	Q. 6?	< 3
	PII	D	
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

CUSTOMER: MES VANT	# 29
SERIAL NUMBER: 103/445	324
TECHNICIAN: M. MBEJES	_ DATE: /0-2-2-(

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	Fi	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	29	+/- 25
500	500	499	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.71	< 3
	PI)	·
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

CUSTOMER: NES VAT	# 32
SERIAL NUMBER:	8173
TECHNICIAN:	DATE: 10-7-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI.	D	
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
	PI	D	
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

CUSTOMER:	Pris var	# 33	
SERIAL NUMBER:	00041015		
TECHNICIAN:	NUBITIES	DATE:	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10.010	+/- 2500
< 1	ZERO GAS	0,68	< 3
	Pil	D	
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

CUSTOMER:	PIES COUTE &	¥ 36	
SERIAL NUMBER:	0332603	125	
TECHNICIAN:	Ol 1319 115	DATE: _	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	SOU	+/- 125
10000	10000	10,000	+/- 2500
<1	ZERO GAS	0,64	< 3
	Pil	D ,	
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

CUSTOMER:	# 10
SERIAL NUMBER:	773
TECHNICIAN: M (1631-145	_ DATE: 10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,006	+/- 2500
<1	ZERO GAS	0.24	< 3
	PII)	
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

CUSTOMER:	NES UNIT	#11	
SERIAL NUMBER:	10363467	74	
TECHNICIAN:	My MB1915	DATE: _	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FII	D	
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
	PII	D	
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

CUSTOMER:	12	
SERIAL NUMBER:		
TECHNICIAN: MBIE115	DATE:	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FII	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	(00	+/- 25
500	500	500	+/- 125
10000	10000	14,003	+/- 2500
<1	ZERO GAS	0,64	< 3
	PI	D	
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

CUSTOMER:	IES UNIT#	13	
SERIAL NUMBER:	1102746 27	5	
TECHNICIAN:	UBG45	DATE: _	10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID				
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)	
100	100	100	+/- 25	
500	500	SOO	+/- 125	
10000	10000	10,000	+/- 2500	
<1	ZERO GAS	0,72	< 3	
	PII	D		
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	

CUSTOMER: Piss Unit.	4-14
SERIAL NUMBER: / 036346	271
TECHNICIAN: MBILTS	DATE: 10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	Fi	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
<1	ZERO GAS	0.63	< 3
	PII)	
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	7	< 3

CUSTOMER:	PIES	Vat	#	15	

TECHNICIAN: M ABERTS DATE: 10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	Fi	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,004	+/- 2500
<1	ZERO GAS	0,63	< 3
	PI	D	
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	1	< 3

CUSTOMER:	- 16	
SERIAL NUMBER: 1027467	176	
TECHNICIAN: M ABEHS	DATE: _	10-2-20

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

	FI	D	
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	SOU	+/- 125
10000	10000	10,000	+/- 2500
<1	ZERO GAS	0,63	< 3
	PI	0	
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



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Operator:	//9		
Date: 10-2-2-(Time:	0600	
fodel # TVA 1000B			
erial # # 1 /632083	2		
INSTRUMENT INTEGRITY CH	HECKLIST	INSTRUMENT CA	LIBRATION
		CALIBRATION	CHECK
sattery test	as / Fail Calibratio		
eading following ignition	2.6 ppm Gas (ppm	ı) (ppm)	Accuracy
	Soo	500	100%
eak test (#	Pass / Fail / NA	RESPONSE	TIME
lean system check	Paşs / Fail / NA	,	_
check valve chatter)	Calibration		<u> </u>
2 supply pressure gauge		ibration Gas, ppm red to attain 90% of	
acceptable range 9.5 - 12)	1.		од. одо рр
late of last factor, cellbration	10-2-2-1 2.	5	
ate of last factory calibration	3.	6	
actory calibration record	Pass / Fail Average	less than 30 secon	nds? (Y) N
//instrument within 3 months		calibrated to	
	11193 9111916		
comments:			

465



SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Date: 10-2-2(Model # + 1000B	Time:	0615	
_			
Serial # # 2 778 4545			
INSTRUMENT INTEGRITY CHECKLIST	INST	RUMENT CALIBRA	ATION
Battery test Rass / Fail	Calibration	ALIBRATION CHEC	
<i>O</i>	Gas (ppm)	Actual (ppm)	% Accuracy
Reading following ignition	-	500	100
eak test Pas / Fail / NA	500	300	100'r.
ilean system check Pass / Fail / NA		RESPONSE TIME	
1	Calibration Gas,	pom 5	00
<i>n</i>	90% of Calibratio	on Gas, ppm	450
1/2 supply pressure gauge Fast / Fail / NA acceptable range 9.5 - 12)		attain 90% of Cal G	ias ppm
	1.	5	
Pate of last factory calibration 10-2-21		ط	
factory calibration record	Average	5.3	_
//Instrument within 3 months		than 30 seconds?	€ N
	instrument calibr	rated to CV4	_gas.
Comments:			

465



Purpose:	West /	W		
Operator:	fra CI			
Date: /0 -2- 2 (Time:	0630	
Model # JUA 1000 B	-			
ierial# #3 15865	884			
INSTRUMENT INTEGRITY	CHECKLIST	INSTI	RUMENT CALIBRA	ATION
			ALIBRATION CHE	
Sattery test	eas / Fail	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
eading following ignition	_1,9ppm			
	A	500	500	1004
eak test	Pass / Fail / NA		RESPONSE TIME	Ē
lean system check	Facs / Fail / NA			500
check valve chatter)		Calibration Gas,	ррпі	450
l ₂ supply pressure gauge	Pass / Fall / NA	90% of Calibratio	n Gas, ppm attain 90% of Cal (
acceptable range 9.5 - 12)		1.	,	
nata af lant fasta - a allh t'-	10-2-2-1	2.		
Pate of last factory calibration	10-1-0-	J	5	
actory calibration record	Fass / Fail		.6	6
Vinstrument within 3 months		1 '	han 30 seconds? ated to <u>CHU</u>	(e) N
		Instrument Canon	aled to CAA	yas.
Comments:				



ourpose:	1. /1.			
Operator:	11 (19	W. Hills		
Date: 10-2-21		Time:	0645	
Model # _ +VA-1000 V	3			
Gerial # 4 163 199	830			
INSTRUMENT INTEGRITY	CHECKLIST	INSTR	UMENT CALIBRA	ATION
-M	<u> </u>		LIBRATION CHE	CK
attery test	Pass / Fail	Calibration	Actual	%
eading following ignition	2.3 ppm	Gas (ppm)	(ppm)	Accuracy
eak test	Pass / Fail / NA	500	500	100%
	Š		RESPONSE TIME	
lean system check	Rass / Fail / NA	Calibarda - C		Cean
theck valve chatter)		Calibration Gas, p 90% of Calibration		<u>500</u> 450
l₂ supply pressure gauge	(ass / Fail / NA		ittain 90% of Cal (7.7.0
acceptable range 9.5 - 12)		1.	(Phili
hate of last factors, as lib 4'	10-2-21	2.		
ate of last factory calibration	1000	3.	0	
actory calibration record	Pass / Fail		0	60
/instrument within 3 months	•	Equal to or less th	an 30 seconds?	60 N
		Instrument calibra	ited to <u>Cbty</u>	_ gas.
Comments:				
omments.				



1
Time:
INSTRUMENT CALIBRATION
CALIBRATION CHECK Calibration Actual % Gas (ppm) (ppm) Accuracy
900 SOO (907,
RESPONSE TIME A Calibration Gas, ppm 90% of Calibration Gas, ppm
Time required to attain 90% of Cal Gas ppm 1
- 3. <u>5</u>
Average <u>\$.3</u> Equal to or less than 30 seconds? (Y) Instrument calibrated to <u>CHY</u> gas.
-



Site:		_		
Purpose:				
Operator:	Vac My			
Date: 10-2-21		Time:	0715	
Model # TUA 1000 B				
Serial # #6 077077	362b			
INSTRUMENT INTEGRITY	CHECKLIST	INSTR	RUMENT CALIBRA	ATION
Battery test	ass / Fail	Calibration	ACTUAL	%
Reading following ignition	2 11 ppm	Gas (ppm)	(ppm)	Accuracy
Leak test	Pags / Fail / NA	500	500	1004,
Clean system check (check valve chatter)	Pass / Fail / NA	Calibration Gas, p		<u>Soo_</u>
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	Fase / Fail / NA	90% of Calibration Time required to a 1.	attain 90% of Cal C	450 Sas ppm
Date of last factory calibration	10-2-21	2. 3.		
Factory calibration record w/instrument within 3 months	ease / Fail	Equal to or less th	nan 30 seconds?	Ø N _gas.
Comments:				·



perator:	Mr /19	1		
ate: 10-2-21		Time:	0710	
odel# + 1000 V	3			
rial # # 7 072072	3 627			
INSTRUMENT INTEGRIT	Y CHECKLIST	INST	RUMENT CALIBR	ATION
		C/	LIBRATION CHE	CK
ttery test	fass / Fail	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
ading following ignition	_2.0_ ppm			•
-b. 44	^	500	500	100%
ak test	(7a)s / Fail / NA		RESPONSE TIME	E
an system check	Rasis / Fail / NA	Calibaria - Can		500
eck valve chatter)		Calibration Gas, p 90% of Calibration		450
supply pressure gauge	Rass / Fail / NA		attain 90% of Cal	
cceptable range 9.5 - 12)		1	2	
ite of last factory calibration	10-2-2-	2	<u>6</u>	
i la	Ca	3	<u> </u>	
ctory calibration record instrument within 3 months	Pass / Fail		nan 30 seconds?	Ø N
HOUSE CHIRD HOUSE			ated to Clfy	
		I		



Operator:	Mu / My			
Date:		Time:	0747	
Model # + 41 1000B	-			
Serial # #9 0532)	13801			
INSTRUMENT INTEGRITY	CHECKLIST	INSTR	RUMENT CALIBR	ATION
Battery test	Fail	Calibration Gas (ppm)	ACTUAL	%
Reading following ignition			(ppm)	Accuracy
eak test	Pass / Fail / NA	500	SOO RESPONSE TIME	1004,
Clean system check check valve chatter)	Pass / Fail / NA	Calibration Gas, p		<u>500</u>
t₂ supply pressure gauge acceptable range 9.5 - 12)	Pass / Fail / NA	Time required to a	attain 90% of Cal C	
Date of last factory calibration	10-2-21	2. <u>4</u>		
Factory calibration record within 3 months	Pass / Fail	Equal to or less th	nan 30 seconds?	Ø N _gas.



perator:				
ate: 10-2-21		Time:	0800	
odel#	3			
erial # <u>#29 10314</u>	45324			
INSTRUMENT INTEGRITY	CHECKLIST	INSTI	RUMENT CALIBRA	ATION
		C	LIBRATION CHE	CK
attery test	Pass / Fail	Calibration	Actual	%
ading following ignition		Gas (ppm)	(ppm)	Accuracy
acing following ignition		500	500	1007
ak test	Gas / Fail / NA		RESPONSE TIME	
ean system check	Pass / Fail / NA			_
eck valve chatter)	0	Calibration Gas,	—	<u> 500 </u>
supply pressure gauge	Fass / Fail / NA	90% of Calibratio	n Gas, ppm attain 90% of Cal (450
cceptable range 9.5 - 12)		1.	dicam 90 % or Oar C	Jas ppin
ota of last factors callbrakter	10-2-21	2.		
te of last factory calibration	1000		2	
ectory calibration record	Pass / Fail		(cb	(V) N
instrument within 3 months		Instrument calibr	nan 30 seconds? ated to Clfy	nas N
		msuoment campra	sted to	_ Ago.
	-			



Purpose:				
Operator:	u M			
Date: 10-27		Time:	0815	
Hodel # 14 47 1000 12	<u> </u>			
Serial # #3} 0928	<u>5384</u> 23			
INSTRUMENT INTEGRITY	CHECKLIST	INST	RUMENT CALIBRA	ATION
			CALIBRATION CHE	
Battery test	Pass / Fail	Calibration Gas (ppm)	Actual	% Appurpose
leading following ignition	2:6 ppm	VI	(ppm)	Accuracy
eak test		500	500	1008
oak test	as / Fail / NA		RESPONSE TIME	
Clean system check	as / Fail / NA			- - -
check valve chatter)	,—	Calibration Gas 90% of Calibrati		450 450
12 supply pressure gauge	Pass / Fall / NA	1	on Gas, ppmo attain 90% of Cal G	
acceptable range 9.5 - 12)		1.	6	
Date of last factory calibration	10-2-21	2	6	
	~	3	7	
Factory calibration record within 3 months	(Pass / Fail	Average	than 30 seconds?	(v) N
avisuoment within 3 months			prated to CHy	
Comments:				
			- WHO	



Site:				
Purpose:				
Operator:	1 //			x
Date: 10-2-21		Time:	0830	
Model #				
Serial # # 33 00041	1015			
INSTRUMENT INTEGRITY	CHECKLIST	INSTR	RUMENT CALIBR	ATION
	~	C/	LIBRATION CHE	CK
Battery test	(ass) / Fail	Calibration	Actual	%
Reading following ignition	_7.1 ppm	Gas (ppm)	(ppm)	Accuracy
reading londwing ignition	PP'''	500	500	100%
.eak test	Pass / Fail / NA		RESPONSE TIME	
Clean system check	Pass / Fail / NA		KESPONSE TIME	_
check valve chatter)	(AB) / (B) / (B)	Calibration Gas,		SO 0
		90% of Calibration		450
1/2 supply pressure gauge	ess / Fall / NA		attain 90% of Cal	Sas ppm
acceptable range 9.5 - 12)			6	
Date of last factory calibration	10-2-21	3.	6	
P 4	4 3		,,0	
Factory calibration record w/instrument within 3 months	ass / Fail		han 30 seconds?	₩ N
many phone whith a mound			ated to Cly	
Comments:			0	



Purpose:	0/4 04		2.32	
Operator:	My MS			34
Date:		Time:	ወ ጀላ <i>2</i>	
lodel # + VA 1000 /	3			
erial # #36 03326	003185			
INSTRUMENT INTEGRITY	CHECKLIST	INST	RUMENT CALIBR	ATION
-M- A A	<i>m</i> .	A CONTRACTOR OF THE PARTY OF TH	LIBRATION CHE	
Sattery test	Ass / Fail	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
eading following ignition	1,9 ppm	18.00	(ppm)	Accuracy
eak test	ass / Fail / NA	500	500	1004
	ass / Fall / NA		RESPONSE TIME	=
lean system check	(ass / Fail / NA	C-lib-sii- C-		Spa
theck valve chatter)		Calibration Gas, p 90% of Calibration		450
lz supply pressure gauge	Fas / Fail / NA		attain 90% of Cal (
acceptable range 9.5 - 12)		1	5	•
Date of last factory calibration	10-2-21	2.	6	
		3	<u>6</u>	
actory calibration record	Fass / Fail		nan 30 seconds?	N N
THE STREET WILLIAM STREET		Instrument calibra		_ gas.
Comments:	- W			
73 7 000				



Date: 10-2-21		Time:	0900	
Model # <u>+C/+ 1000</u> Serial # <u>#10 10363</u>	The state of the s			
INSTRUMENT INTEGRIT	CHECKLIST	INST	RUMENT CALIBR	RATION
Reading following ignition Leak test Clean system check check valve chatter) 1/2 supply pressure gauge acceptable range 9.5 - 12) Date of last factory calibration Factory calibration record	Pass / Fail / NA Pass / Fail / NA Pass / Fail / NA 10-2-2 (Pass / Fail	Calibration Gas (ppm) Calibration Gas, 90% of Calibratio Time required to 1. 2. 3. Average		Accuracy LOO Y IE SOO USO Gas ppm
v/instrument within 3 months			ated to Clfy	



perator:		Time:	910	
odel #_ TVA 1000 P				
rial# # /03634	6114			
INSTRUMENT INTEGRITY	CHECKLIST	INST	RUMENT CALIBR	ATION
			LIBRATION CHE	CK
ittery test	Pass / Fail	Calibration Gas (ppm)	Actual	% ^====================================
ading following ignition	2,3 ppm	Gas (ppin)	(ppm)	Accuracy
	~	500	500	100%
ak test	Pass / Fail / NA		RESPONSE TIME	·
ean system check	Pass / Fail / NA			
neck valve chatter)	(30) (2 (10)	Calibration Gas,		500
	-	90% of Calibratio		450
supply pressure gauge coeptable range 9.5 - 12)	(ass / Fail / NA		attain 90% of Cal (Gas ppm
Cooptable range 9.5 - (2)	_	1	2	
ate of last factory calibration	10-2-21	4.	5	
·	~	<u> </u>		
ctory calibration record	ast / Fail	Average	20 accorde3	(F) N
instrument within 3 months	•	Instrument calibra		gas.
		THOUSAND COMMEN	200 10	gas.
omments:				



Operator:		Time:	0930	
Model # 412 10362°	<u>B</u> 16411	. 1/4.2.3		
INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	Pass / Fail	Calibration Gas (ppm)	LIBRATION CHE Actual (ppm)	CK % Accuracy
Reading following ignition Leak test	Pass / Fail / NA	500	500 RESPONSE TIME	1004,
Clean system check check valve chatter)	Pass / Fail / NA	Calibration Gas, p		900 1450
rl ₂ supply pressure gauge (acceptable range 9.5 - 12)	Fass / Fail / NA	Time required to a 1. 2.	attain 90% of Cal (7	Gas ppm
Date of last factory calibration Factory calibration record	10-2-2-(3. Average	3	
w/instrument within 3 months		Equal to or less to Instrument calibra	han 30 seconds? ated to <u>CW1</u>	_ gas.
Comments:				



Site:					
Purpose:	1 24-				
Operator:	MI (JU				
Date://0-2-2/		Time:	0945		
Model #	2				
Serial # #13 11027	46775				
INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION			
Battery test	Pass/ Fail	Calibration	ALIBRATION CHE Actual	%	
Reading following ignition	2.8 ppm	Gas (ppm)	(ppm)	Accuracy	
eak test	Pass / Fail / NA	Soo	500	100%	
Clean system check check valve chatter)	Fail / NA	Calibration Gas, p		500	
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	Fass / Fall / NA	90% of Calibration Gas, ppm <u>USD</u> Time required to attain 90% of Cat Gas ppm 1.			
Date of last factory calibration	10-2-21	2. 6 3. 6			
Factory calibration record within 3 months	gass / Fail	Average		y N gas.	
Comments:					
				7.0	



Site:				
Purpose:	- 0.			
Operator:	The M			
Date: 10-2-21		Time:	1000	
Model # 401-10001	3			
Serial # #14 (036)	346771			
INSTRUMENT INTEGRI	TY CHECKLIST	INSTF	RUMENT CALIBR	ATION
	^		LIBRATION CHE	
Battery test	(as) / Fail	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Reading following ignition	2,1 ppm	Gas (ppin)	(ppni)	Accuracy
	~	5000	500	100%
eak test	(Fass / Fait / NA		RESPONSE TIME	=
Clean system check	s / Fail / NA			
check valve chatter)		Calibration Gas, p		<u>500</u> 450
H ₂ supply pressure gauge	Fass / Fail / NA	90% of Calibration	n Gas, ppm attain 90% of Cal (
acceptable range 9.5 - 12)	(3,577, 0,177, 1,077	1.	2	эвэ рртп
	10-2-21	2.	<u> </u>	
Date of last factory calibration	10-2-04	3		
Factory calibration record	Pass / Fall		3.3	0
w/instrument within 3 months		Equal to or less th		Ø N
		Instrument calibra	ited to Levy	_ gas.
Comments:				



Purpose:				:	
Operator:	M				
Date: 10-2-2(Time:	1015		
Hodel # JUA 1000 B					
Serial # #15 103634	6772				
INSTRUMENT INTEGRITY C	HECKLIST	INSTR	UMENT CALIBRA	ATION	
	α	CA	LIBRATION CHE	CK	
Sattery test	Pass / Fail	Calibration	Actual	%	
teading following ignition	2.5 ppm	Gas (ppm)	(ppm)	Accuracy	
Seeing tollowing ightport		500	500	100%	
eak test	@ass / Fail / NA				
clean system check	Pas / Fail / NA		RESPONSE TIME		
check valve chatter)	GIST FBIIT NA	Calibration Gas, p	pm	S00	
	62 -	90% of Calibration		450	
H ₂ supply pressure gauge Réss / Fail / NA (acceptable range 9.5 - 12)					
acceptable latige 5.5 - 12)	1	1	,		
Pate of last factory calibration	10-2-21	3.			
actory calibration record	Pass / Fail	1 · · · · · ·		•	
v/instrument within 3 months	Case / Fall	Equal to or less th	an 30 seconds?	Ø N	
		Instrument calibra	ited to <u>C44</u>	_ gas.	
Comments:					



		-			
1/11/18	1				
	Time:	1010			
3					
6716					
INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION			
Pass / Fail	Calibration	Actual	CK % Accuracy		
2,6 ppm			100%		
(Pass / Fail / NA	140		• • • • • • • • • • • • • • • • • • • •		
Fail / NA	Calibration Gas, ppm 900				
as / Fail / NA	Time required to attain 90% of Cal Gas ppm				
10-2-21	2. 3.	<u>6</u> b ·			
Cass / Fail					
· · · · · · · · · · · · · · · · · · ·					
	Pass / Fail 2,6 ppm Pass / Fail / NA Pass / Fail / NA Pass / Fail / NA Pass / Fail / NA	Y CHECKLIST Pass / Fail 2,6 ppm Pass / Fail / NA Pass / Fail / NA Calibration Gas, pow of Calibration Time required to 1. 2. 3. Average General Security Construment calibration C	Y CHECKLIST INSTRUMENT CALIBRATION CHE Calibration Gas (ppm) Pass / Fail / NA Pass / Fail / NA Calibration Gas, ppm 90% of Calibration Gas, ppm 90% of Calibration Gas, ppm Time required to attain 90% of Calibration Gas, ppm 1. 2. 3. 4. 4. 4. 4. 4. 4. 4. 5. 5. 6. 7. 8. 8. 4. 4. 4. 5. 6. 7. 8. 8. 8. 8. 8. 8. 8. 8. 8		



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CERTIFICATE OF ANALYSIS

Composition Certification **Analytical Accuracy** Air - Zero

THC < 2 PPM

Oxygen 20.9% ± 2%

Nitrogen Balance

Lot# 19-6779

Mfg. Date: 4/3/2019

Parent Cylinder ID 001739, 02268

Number:

Method of Preparation:

Gravimetric/Pressure Transfilled

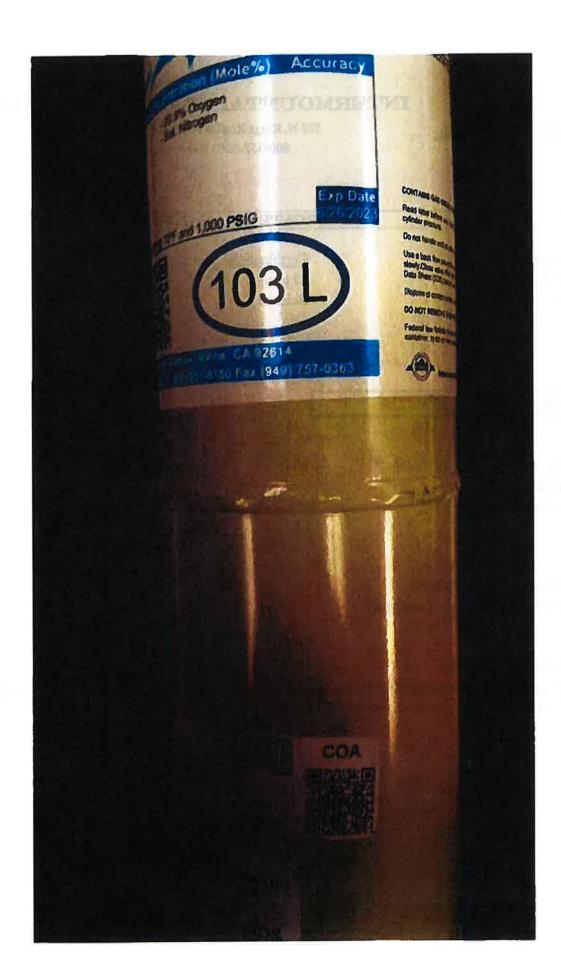
Method of Analysis:

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





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CERTIFICATE OF ANALYSIS

Composition

Methane Air Certification

25 ppm

Balance

Analytical Accuracy

 $\pm 5\%$

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





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

CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

25 ppm

Balance

Analytical Accuracy

 $\pm 5\%$

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

Service
INC.
Accuracy
+/-5% asupply mention (Mole%) O4) · 25 ppm . Balance 360 6 70°F and 1,000 PSIG Lots: 17-6074 P/N:23-0025 103 L Avenue, Irvine, CA 92614 (c. 1800) 201-8150 Fax (949) 757-036

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

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

Lat#

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:

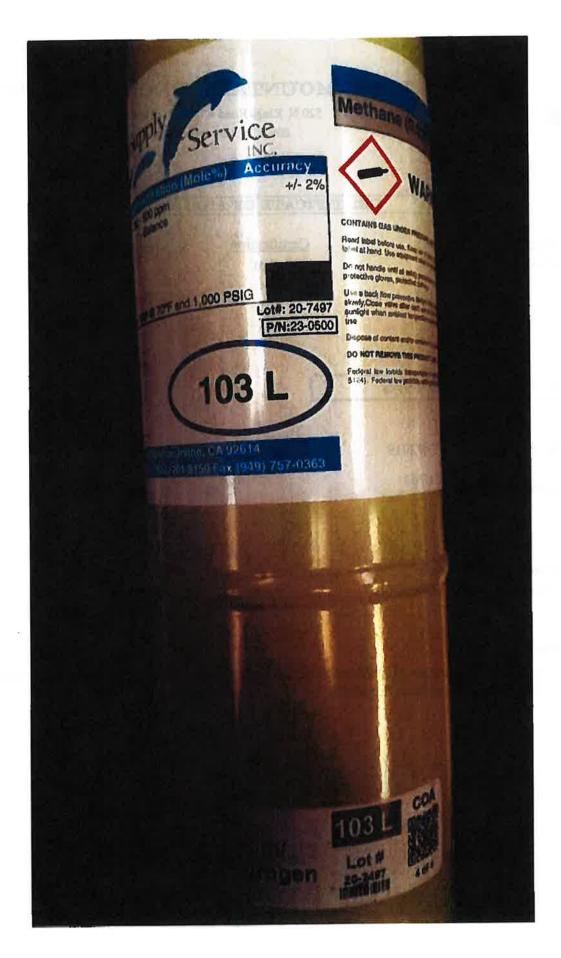
The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By:

Tony Janquart Title: Quality Assurance Manager

Certificate Date:

7/10/2020





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CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

500 ppm

Balance

Analytical Accuracy

± 2%

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



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

 Composition
 Certification
 Analytical Accuracy (+/-)

 Methane
 500 ppm
 2%

Oxygen 20.9 % 2%

Nitrogen Balance UHP

Lot # 18-6641

Mfg. Date: 12/18/2018

Expiration Date:

Transfill Date: see cylinder

Parent Cylinder ID 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.

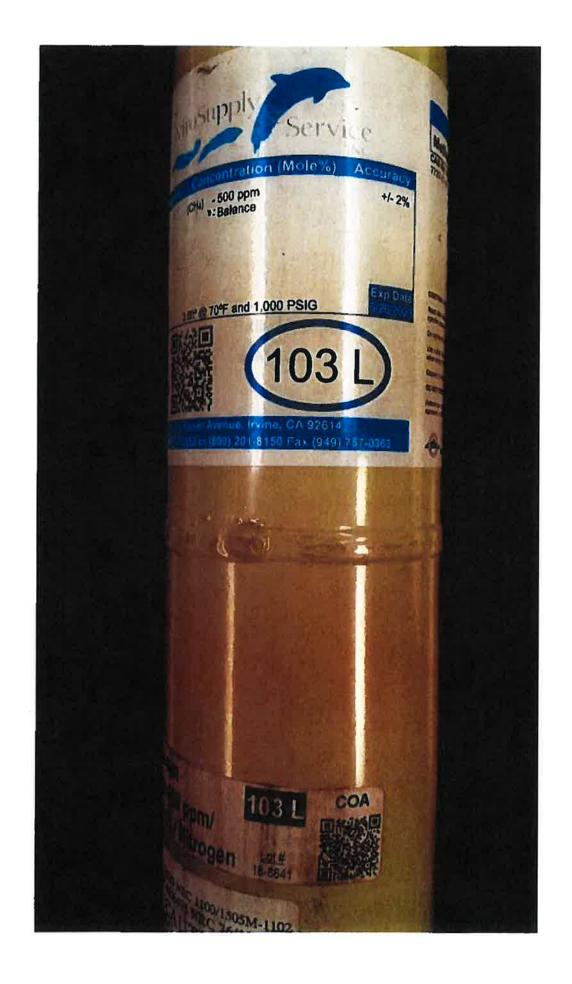
Analysis By:

Tony Janquart

Title:

Quality Assurance Manager

Certificate Date: 12/18/2018



Appendix B GCCS Map

