February 15, 2023

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

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

July – December 2022

To Whom it May Concern,

Pursuant to Title 40 Code of Federal Regulations 63.1981(h), Waste Management of California, Inc. is submitting the Semi-Annual Report for the Simi Valley Landfill and Recycling Center (SVLRC). This report covers the period from July 1, 2022 to December 31, 2022.

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,

Collin Pavelchik
EP Air Quality Specialist
Waste Management

cc Mr. Christian Colline, Waste Management
Mr. Mark Grady, Wase Management
Ms. Jayna Morgan, Waste Management
Mr. Dustin Colyar, Waste Management
Mr. Matthew Darr, Waste Management

FEBRUARY 2023

INITIAL 40 CFR 63, SUBPART AAAA SEMI-ANNUAL REPORT JULY – DECEMBER 2022

WASTE MANAGEMENT

SIMI VALLEY LANDFILL AND RECYCLING CENTER
Ventura, California

2801 Madera Road, Simi Valley, CA 93065
Facility No. 01395

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.

On June 21, 2021, new requirements from 40 CFR 62.1115(b)(2) incorporated monitoring, recordkeeping, and reporting requirements for landfill gas temperatures at wellheads from sections of 40 CFR 62, Subpart OOO that were incorporated into the California State Plan 40 CFR 62 Subpart F. As of September 27, 2021, SVLRC began complying with 40 CFR 63, Subpart AAAA in lieu of the 40 CFR 62 Subpart OOO sections that were incorporated into the 40 CFR 62 Subpart F California State Plan.

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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 July 1, 2022 through December 31, 2022.

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 Appendix B.

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

§63.1958(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

Name	Initial Reading		5-Day Corrective Action	Final Reading		Duration (days)
	Date	Temp (°F)		Date	Temp (°F)	
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	HOV
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.

§63.1961(g) Each owner or operator seeking to demonstrate compliance with §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
8/10/2022 2:25	8/10/2022 19:05	16.67	Power Outage
8/11/2022 7:15	8/11/2022 8:20	1.08	Loop Testing
8/23/2022 6:50	8/23/2022 8:30	1.67	Oxygen Intrusion
9/1/2022 7:30	9/1/2022 9:10	1.67	Manual Shut Down for Maintenance
9/5/2022 10:40	9/5/2022 10:55	0.25	VFD Overheating
9/7/2022 5:45	9/7/2022 6:00	0.25	VFD Overheating
9/7/2022 7:10	9/7/2022 9:40	2.50	VFD Overheating
9/8/2022 8:05	9/8/2022 9:15	1.17	Power Outage
9/12/2022 15:30	9/13/2022 7:15	15.75	Power Outage
10/6/2022 10:35	10/6/2022 11:50	1.25	Low Gas Flow resulting in flare shutdown
10/13/2022 6:45	10/13/2022 7:00	0.25	Manual Shut Down for Field Work
10/17/2022 9:55	10/17/2022 11:50	1.92	Shut Down due to Flow Spike
10/31/2022 7:20	10/31/2022 13:20	6.00	Manual Shut Down for Maintenance
11/2/2022 9:10	11/2/2022 12:55	3.75	Power Outage
11/8/2022 6:35	11/8/2022 7:10	0.58	Power Outage
11/11/2022 8:05	11/11/2022 12:20	4.25	Oxygen Intrusion - Loose Coupling
11/17/2022 2:50	11/18/2022 10:35	31.75	Burner Torched
11/24/2022 7:15	11/24/2022 10:05	2.83	Power Outage
12/21/2022 8:20	12/21/2022 12:45	4.42	VFD on Flare No.4 suffered a minor arc flash

Enclosed Flare No. 4 Downtime Events

Shutdown	Startup	Duration (hours)	Reason
7/20/2022 5:10	7/20/2022 10:50	5.67	Combustion Air Blower Filters
8/10/2022 1:45	8/10/2022 18:55	17.17	Power Outage

8/11/2022 8:40	8/11/2022 9:50	1.17	Loop Testing
8/17/2022 16:25	8/18/2022 7:45	15.33	VFD Overheating
8/18/2022 8:30	8/18/2022 12:40	**4.17**	VFD Overheating
8/18/2022 13:15	8/18/2022 14:25	1.17	VFD Overheating
8/18/2022 14:55	8/19/2022 8:35	17.67	VFD Overheating
8/23/2022 6:50	8/23/2022 8:40	1.83	Oxygen Intrusion
8/31/2022 8:10	8/31/2022 11:55	3.75	High Burner Temp
9/1/2022 11:10	9/1/2022 12:45	1.58	Manual Shut Down for Maintenance
9/1/2022 15:15	9/1/2022 18:45	3.50	VFD Overheating
9/2/2022 12:00	9/2/2022 12:30	0.50	VFD Overheating
9/3/2022 7:10	9/3/2022 7:45	0.58	VFD Overheating
9/3/2022 11:30	9/3/2022 13:30	2.00	VFD Overheating
9/4/2022 10:15	9/4/2022 16:45	6.50	VFD Overheating
9/5/2022 10:40	9/5/2022 13:10	2.50	VFD Overheating
9/5/2022 16:15	9/5/2022 18:00	1.75	VFD Overheating
9/8/2022 8:05	9/8/2022 9:30	1.42	Power Outage
9/12/2022 15:30	9/13/2022 0:50	9.33	Power Outage
9/13/2022 6:55	9/13/2022 9:20	2.42	Power Outage
10/6/2022 10:35	10/6/2022 11:45	1.17	Low Gas Flow resulting in flare shutdowns
10/10/2022 4:50	10/10/2022 9:50	5.00	Combustion Air Blower Filters
10/11/2022 7:10	10/11/2022 15:25	8.25	Manual Shut Down for Field Work
10/13/2022 6:45	10/13/2022 11:55	5.17	Manual Shut Down for Field Work
10/14/2022 6:45	10/14/2022 14:55	8.17	Manual Shut Down for Field Work
10/17/2022 7:40	10/17/2022 14:05	6.42	Combustion Air Blower Filters

10/31/2022 7:20	10/31/2022 7:55	0.58	Manual Shut Down on Flare No. 3 for maintenance
11/2/2022 9:10	11/2/2022 11:11	2.02	Power Outage
11/8/2022 6:30	11/8/2022 9:20	2.83	Power Outage
11/11/2022 8:05	11/11/2022 11:15	3.17	Oxygen Intrusion - Loose Coupling
11/17/2022 2:50	11/17/2022 3:00	0.17	Flow disrupted by Flare 3 shut down
11/24/2022 7:15	11/25/2022 10:40	27.42	Power Outage - Left off for filter swap
12/21/2022 8:20	1/30/2023 10:50	962.50	VFD suffered a minor arc flash

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
8/10/2022 2:25	8/10/2022 18:55	16.50	Power Outage
8/23/2022 6:50	8/23/2022 8:30	1.67	Oxygen Intrusion
9/5/2022 10:40	9/5/2022 10:55	0.25	VFD Overheating
9/8/2022 8:05	9/8/2022 9:15	1.17	Power Outage
9/12/2022 15:30	9/13/2022 0:50	9.33	Power Outage
10/6/2022 10:35	10/6/2022 11:45	1.17	Low Gas Flow resulting in flare shutdowns
10/13/2022 6:45	10/13/2022 7:00	0.25	Manual Shut Down for Field Work
10/17/2022 9:55	10/17/2022 11:50	1.92	Combustion Air Blower Filters - Flare 4
10/31/2022 7:20	10/31/2022 7:55	0.58	Manual Shut Down for Maintenance
11/2/2022 9:10	11/2/2022 11:11	2.02	Power Outage
11/8/2022 6:35	11/8/2022 7:10	0.58	Power Outage
11/11/22 8:05	11/11/22 11:15	3.17	Oxygen Intrusion - Loose Coupling
11/17/2022 2:50	11/17/2022 3:00	0.17	Flare 4 disrupted by Flare 3 shut down
11/24/2022 7:15	11/24/2022 10:05	2.83	Power Outage
12/21/2022 8:20	12/21/2022 12:45	4.42	VFD on Flare No. 4 suffered a minor arc flash

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 Third Quarter 2022 was completed during the reporting period. There were twenty-two (22) 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 tables. Applicable monitoring data is presented in Appendix C.

Monitoring for the Fourth Quarter 2022 was also completed during the reporting period. There were eight (8) 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 tables. Applicable monitoring data is presented in Appendix C.

Surface Emissions Monitoring 3rd Qtr 2022 - Areas over 500 ppmv

Initial Monitoring Event					10-Day Remonitoring		1-Month Remonitoring	
Flag/Grid Number	Date	Location		CH_4 (ppm_v)	Date	CH_4 (ppm_v)	Date	CH_4 (ppm_v)
		Longitude	Latitude					
85	9/21/22	-118.793443	34.29784496	7104	9/29/22	321	10/20/22	6
86	9/21/22	-118.796377	34.29756098	3319	9/29/22	411	10/20/22	4
68	9/21/22	-118.795411	34.29634804	5098	9/29/22	221	10/20/22	32
69	9/21/22	-118.796367	34.30034897	1422	9/29/22	314	10/20/22	23
35	9/21/22	-118.795761	34.29883897	1128	9/29/22	182	10/20/22	12
31	9/21/22	-118.797754	34.30047202	711	9/29/22	241	10/20/22	5
32	9/21/22	-118.797438	34.30053304	560	9/29/22	269	10/20/22	34
83	9/21/22	-118.797068	34.30066103	13000	9/29/22	391	10/20/22	381
67	9/21/22	-118.794837	34.29806096	1468	9/29/22	272	10/20/22	56
39	9/21/22	-118.795311	34.30054704	3157	9/29/22	191	10/20/22	103
38	9/21/22	-118.794515	34.29959502	1428	9/29/22	53	10/20/22	15

Initial Monitoring Event					10-Day Remonitoring		1-Month Remonitoring	
Flag/Grid Number	Date	Location		CH_4 (ppm_v)	Date	CH_4 (ppm_v)	Date	CH_4 (ppm_v)
		Longitude	Latitude					
149	9/21/22	-118.794668	34.30014504	3631	9/29/22	26	10/20/22	211
18	9/21/22	-118.794537	34.30014504	791	9/29/22	81	10/20/22	8
14	9/21/22	-118.794706	34.30060403	681	9/29/22	77	10/20/22	19
72	9/21/22	-118.794771	34.30072398	1081	9/29/22	63	10/20/22	163
71	9/21/22	-118.794695	34.29738102	513	9/29/22	99	10/20/22	29
57	9/22/22	-118.794776	34.29862297	7432	9/29/22	481	10/20/22	455
131	9/22/22	-118.79543	34.29844603	712	9/29/22	66	10/20/22	9
151	9/22/22	-118.793394	34.29783097	611	9/29/22	74	10/20/22	37
45	9/22/22	-118.79623	34.29903997	902	9/29/22	232	10/20/22	374
138	9/22/22	-118.795411	34.29634804	2642	9/29/22	381	10/20/22	299
59	9/28/22	-118.797068	34.30066103	1052	9/29/22	213	10/20/22	257

Surface Emissions Monitoring 4th Qtr 2022 - Areas over 500 ppmv

Initial Monitoring Event					10-day Re-monitoring		1-Month Remonitoring*	
Flag/Grid Number	Date	Location		CH_4 (ppm_v)	Date	CH_4 (ppm_v)	Date	CH_4 (ppm_v)
		Longitude	Latitude					
73	11/28/22	-118.794695	34.29738102	17,012	12/6/22	2	1/7/23	4
85	11/28/22	-118.794776	34.29862297	9534	12/6/22	14	1/7/23	12
132	11/28/22	-118.79543	34.29844603	2038	12/6/22	12	1/7/23	10
139	11/28/22	-118.793394	34.29783097	1542	12/6/22	6	1/7/23	6
57	11/28/22	-118.794668	34.30014504	1029	12/6/22	9	1/7/23	3
153	11/28/22	-118.794537	34.30014504	812	12/6/22	95	1/7/23	20
155	11/28/22	-118.79623	34.29903997	744	12/6/22	13	1/7/23	10
39	11/28/22	-118.796377	34.29756098	558	12/6/22	8	1/7/23	6

*Pushed back to January 7, 2023 due to rain.

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 A.

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

Well ID	Startup Date
N/A, no expansions were required 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
2116, 2117, 2118, 2119, 2120, LR23A, LR23B	11/21/22
2215, 2220, 2221, 2223, 2224, 2225, 2226, 2227, 2234, 2235	12/20/22
2210, 2222, 2228, 2229, 2230, 2231, 2232, 2233	12/23/22

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

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

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

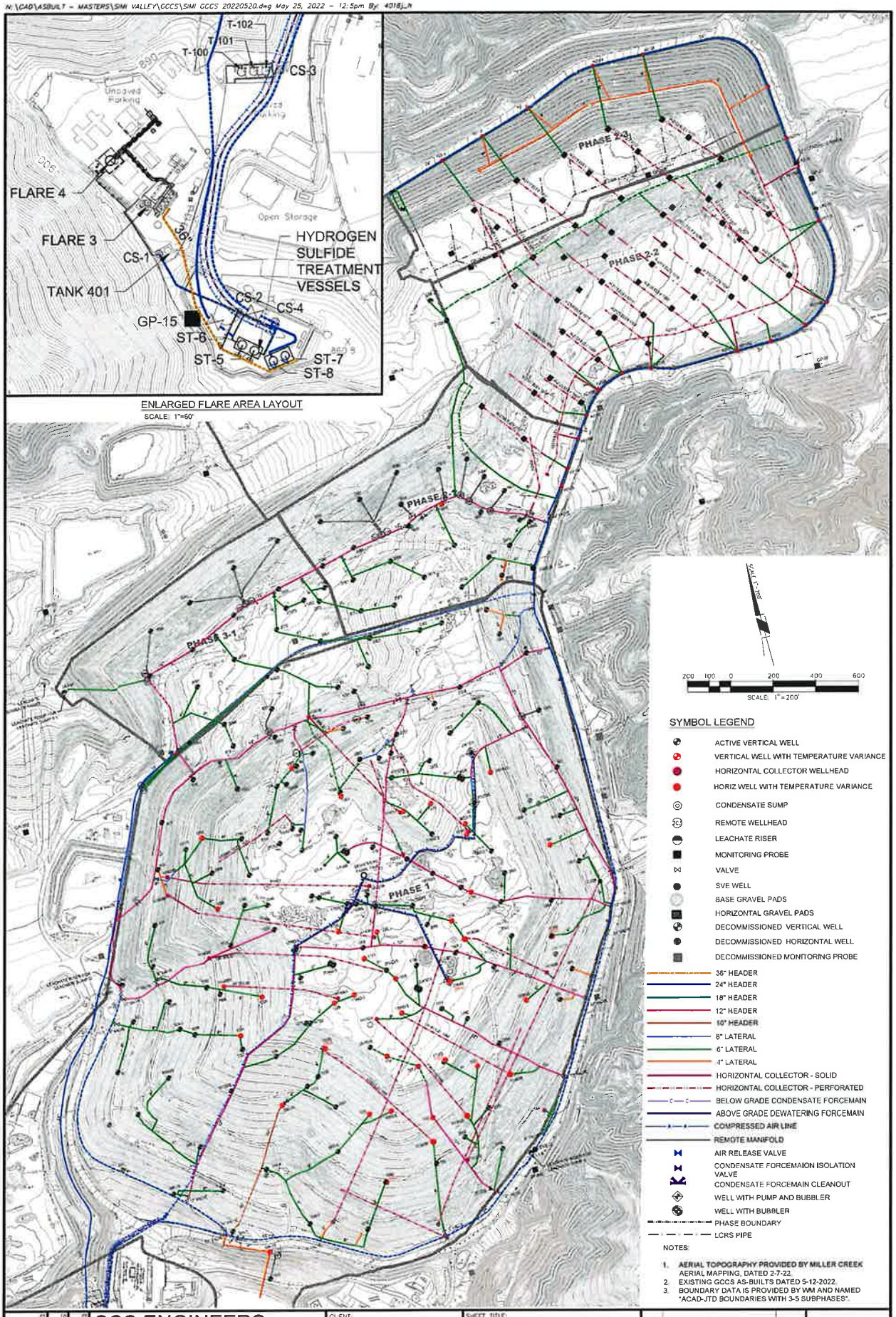
Flare No. 4

Parameter	June 30, 2022 Source Test Report
Avg. Test Temperature	1,514 °F
3-hr Min Combustion Temperature	1,464°F

Appendix A

GCCS MAP

N:\CAD\ASBUILT - MASTERS\SIMI VALLEY\GCCS\SIMI GCCS 20220520.dwg May 25, 2022 - 12:5pm By: 4018jh



DRAWING NO. 2 of 3

SCALE: AS SHOWN

DATE: 05-25-2022

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

CLIENT: WM WASTE MANAGEMENT

SHEET TITLE: GCCS AND DEWATER LAYOUT

PROJECT TITLE: SIMI VALLEY LANDFILL AND RECYCLING CENTER
2801 MADERA ROAD
SIMI VALLEY, CALIFORNIA 93065

NO.	REVISION	DATE

Appendix B

WELL POSITIVE PRESSURE DATA

WWW 5-15 EXCEEDANCE REPORT: Simi Valley Landfill
Range: 01-Jul-2022 to 31-Dec-2022
Report Generated: 28-Feb-2023 8:32:43PM

Exceedance at 0 to 5 days
Exceedance at 5 to 15 days
Exceedance at 15+ days
Returning to Non-Exceedance

Results for Static Pressure

Range	Device ID	Monitoring Date/Time	Days Exceeded	Static Press ("H2O)	% O2	% N2	Gas Temp (oF)	Comments
0 to 5	SIH02116	11/21/2022 11:20:58AM	Initial	0.88	0.0		89.3	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH02116	11/21/2022 11:20:58AM	0	-0.20	0.0		91.8	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH02116	12/22/2022 1:43:21PM	Initial	0.50	0.1		81.6	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH02116	12/22/2022 1:43:21PM	0	-0.54	0.1		82.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH02117	11/21/2022 11:15:49AM	Initial	1.81	0.1		85.2	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH02117	11/21/2022 11:15:49AM	0	-0.11	0.1		95.9	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH02117	12/22/2022 1:40:26PM	Initial	0.75	0.2		90.4	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH02117	12/22/2022 1:40:26PM	0	-0.22	0.2		90.6	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH02118	11/21/2022 11:03:57AM	Initial	1.58	0.1		83.4	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH02118	11/21/2022 11:03:57AM	0	-0.58	0.1		96.5	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH02118	12/22/2022 1:35:26PM	Initial	0.25	0.2		92.3	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH02118	12/22/2022 1:35:26PM	0	-0.25	0.2		92.4	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH02119	11/21/2022 10:47:17AM	Initial	1.41	0.1		79.9	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH02119	11/21/2022 10:47:17AM	0	-0.56	0.1		90.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH02120	11/21/2022 10:38:40AM	Initial	0.60	0.0		79.6	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH02120	11/21/2022 10:38:40AM	0	-0.12	0.0		87.6	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH02120	12/22/2022 1:26:11PM	Initial	0.28	0.1		85.5	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH02120	12/22/2022 1:26:11PM	0	-0.25	0.1		86.2	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH1235A	7/8/2022 3:46:44PM	Initial	0.00	0.0		88.0	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH1235A	7/8/2022 3:46:44PM	0	-1.60	0.0		92.6	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH1235A	7/19/2022 7:07:28PM	Initial	0.00	17.3		96.0	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIH1235A	7/19/2022 7:07:28PM	0	0.00	17.3		96.0	NSPS/EG CAI;Dec. Flow/Vac.

WWW 5-15 EXCEEDANCE REPORT: Simi Valley Landfill
Range: 01-Jul-2022 to 31-Dec-2022
Report Generated 28-Feb-2023 8:32:43PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Static Press ("H2O)	% O2	% N2	Gas Temp (oF)	Comments
0 to 5	SIH1235A	7/20/2022 11:08:46AM	1	0.10	0.0		89.0	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH1235A	7/20/2022 11:08:46AM	1	-1.30	0.0		91.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIH1235A	8/3/2022 10:48:29AM	Initial	0.02	0.2		96.0	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIH1235A	8/3/2022 10:48:29AM	0	-1.36	0.2		98.2	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1573D	9/8/2022 2:02:40PM	Initial	4.05	0.1		121.3	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIM1573D	9/8/2022 2:02:40PM	0	-0.30	0.1		128.6	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1782D	8/3/2022 8:59:45AM	Initial	5.76	0.0		88.3	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIM1782D	8/3/2022 8:59:45AM	0	-6.13	0.0		111.6	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1782D	9/14/2022 3:01:08PM	Initial	8.33	0.4		87.4	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIM1782D	9/14/2022 3:01:08PM	0	-37.02	0.4		129.1	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1783D	9/8/2022 11:19:52AM	Initial	18.25	0.2		119.0	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIM1783D	9/8/2022 11:19:52AM	0	-8.42	0.2		127.8	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1788D	9/12/2022 1:44:33PM	Initial	7.94	0.1		137.0	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIM1788D	9/12/2022 1:44:33PM	0	-20.16	0.1		140.7	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1805D	9/14/2022 11:43:06AM	Initial	43.43	0.1		136.3	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIM1805D	9/14/2022 11:43:06AM	0	-20.56	0.1		137.7	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1927S	9/14/2022 11:30:50AM	Initial	0.17	0.0		100.4	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIM1927S	9/14/2022 11:30:50AM	0	-0.40	0.0		102.7	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2054S	9/8/2022 3:04:39PM	Initial	0.18	0.4		141.2	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2054S	9/8/2022 3:04:39PM	0	0.18	0.4		141.5	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIM2054S	9/21/2022 11:33:58AM	13	-0.61	0.0		135.6	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2100S	7/19/2022 3:48:17PM	Initial	0.00	0.0		98.0	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIM2100S	7/19/2022 3:48:17PM	0	-0.20	0.0		98.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMLR23A	11/21/2022 10:30:46AM	Initial	0.25	0.2		75.8	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMLR23A	11/21/2022 10:30:46AM	0	-0.28	0.2		81.3	NSPS/EG CAI;Inc. Flow/Vac.

WWW S-15 EXCEEDANCE REPORT: Simi Valley Landfill
Range: 01-Jul-2022 to 31-Dec-2022
Report Generated 28-Feb-2023 6:32:43PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Static Press ("H2O)	% O2	% N2	Gas Temp (oF)	Comments
0 to 5	SIMLR23A	12/22/2022 1:19:30PM	Initial	0.36	0.2		94.0	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMLR23A	12/22/2022 1:19:30PM	0	-0.47	0.2		97.9	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMLR23B	12/22/2022 1:48:28PM	Initial	0.11	0.2		84.7	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMLR23B	12/22/2022 1:48:28PM	0	-0.44	0.2		85.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1225	9/8/2022 2:27:15PM	Initial	2.72	0.0		101.6	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMW1225	9/8/2022 2:27:15PM	0	-22.00	0.0		110.7	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1354	9/19/2022 2:28:17PM	Initial	0.04	0.0		95.2	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMW1354	9/19/2022 2:28:17PM	0	-23.07	0.0		100.2	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1571	9/21/2022 11:07:18AM	Initial	1.54	0.0		86.3	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMW1571	9/21/2022 11:07:18AM	0	-0.48	0.0		122.8	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1785	9/8/2022 1:37:10PM	Initial	0.07	0.6		117.4	Inc. Flow/Vac.;NSPS/EG CAI
OK	SIMW1785	9/8/2022 1:37:10PM	0	-0.03	0.6		120.4	Inc. Flow/Vac.;NSPS/EG CAI
0 to 5	SIMW1817	12/19/2022 2:22:58PM	Initial	0.04	0.0		119.5	Inc. Flow/Vac.;NSPS/EG CAI
OK	SIMW1817	12/19/2022 2:22:58PM	0	-0.57	0.0		127.9	Inc. Flow/Vac.;NSPS/EG CAI
0 to 5	SIMW2045	9/8/2022 1:26:17PM	Initial	0.13	4.6		130.6	NSPS/EG CAI;Dec. Flow/Vac.
OK	SIMW2045	9/21/2022 10:48:04AM	13	-0.17	0.0		132.5	NSPS/EG CAI;Inc. Flow/Vac.;NSPS/EG Corrective Action Completed (CAC)
0 to 5	SIMW2049	11/21/2022 2:08:56PM	Initial	0.70	0.1		109.9	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMW2049	11/21/2022 2:08:56PM	0	-0.75	0.1		120.9	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2071	9/8/2022 12:11:18PM	Initial	0.01	0.0		97.2	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMW2071	9/8/2022 12:11:18PM	0	-1.45	0.0		114.3	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2079	10/18/2022 10:56:11AM	Initial	0.39	0.0		136.5	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMW2079	10/18/2022 10:56:11AM	0	-0.13	0.0		138.2	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2096	12/19/2022 9:53:39AM	Initial	2.36	17.7		72.5	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2096	12/19/2022 9:53:39AM	0	-10.24	17.7		61.9	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMW2096	12/19/2022 9:56:38AM	0	-14.82	0.1		68.5	Inc. Flow/Vac.

WWW 5-15 EXCEEDANCE REPORT: Simi Valley Landfill
Range: 01-Jul-2022 to 31-Dec-2022
Report Generated 28-Feb-2023 6:32:43PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Static Press ("H2O)	% O2	% N2	Gas Temp (oF)	Comments
0 to 5	SIMW2210	12/23/2022 12:55:10PM	Initial	2.52	0.0		82.9	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMW2210	12/23/2022 12:55:10PM	0	-1.69	0.0		104.7	NSPS/EG CAI;Vac. Flow/Vac.
0 to 5	SIMW2232	12/23/2022 11:37:50AM	Initial	1.16	0.0		72.3	NSPS/EG CAI;Inc. Flow/Vac.
OK	SIMW2232	12/23/2022 11:37:50AM	0	-0.39	0.0		109.8	NSPS/EG CAI;Inc. Flow/Vac.

Appendix C

SEM DATA

WASTE MANAGEMENT

8491 Fruitridge Road
Sacramento, CA 95826
(510) 714-6098

October 28, 2022

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

Third Quarter 2022 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 Third Quarter 2022 Integrated and Instantaneous Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by Roberts Environmental Services, LLC. (RES). Re-monitoring of 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.
    - 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.

THIRD QUARTER SEM AND COMPONENT LEAK RESULTS

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

Instantaneous Surface Emission Monitoring Results

The Instantaneous surface monitoring was performed on September 21, 22 & 28, 2022, 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 twenty-two (22) exceedances of 500 ppmv as methane detected during the initial monitoring events conducted on September 21, 22 & 28, 2022. 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 September 29, 2022. No exceedances were observed during the second ten-day re-monitoring event.

Thirty-Day Re-Monitoring Results

RES personnel performed the thirty-day monitoring event on October 20, 2022. No exceedances were observed during the thirty-day re-monitoring event.

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

There were nineteen (19) readings between 200 ppmv and 499 ppmv, measured as methane detected during the initial monitoring event on September 26, 27, 29, and 30, 2022. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppmv but below 500 ppmv are required to be recorded. As a best management practice, if these readings occur, SVLRC voluntarily addresses these locations by remediating and re-monitoring all those within this range, during the 10-day re-checks. Therefore, SVLRC and RES personnel performed a ten-day re-check on September 29, 2022 and October 7, 2022 and the nineteen (19) readings were below 200 ppmv. The goal of this is effort is to reduce any future exceedances to improve and reduce overall odors/emissions. Results, if applicable, are summarized in Attachment A.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on September 29 & 30, 2022, 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 two (2) grids with an exceedance above 25 ppmv as methane detected during the initial monitoring events conducted on September 29 & 30, 2022. SVLRC personnel remediated the locations, and the following re-monitoring was conducted as described below.

Ten-Day Re-Monitoring Results

RES personnel performed the ten-day re-monitoring event on October 7, 2022. No exceedances were observed during the ten-day re-monitoring event.

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 September 29, 2022. There were zero (0) locations with a component leak detection of greater than 500 ppmv. 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 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 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

Attachment B

Integrated Surface Emission Monitoring Event Records

Attachment C

Component Leak Monitoring Event Records

Attachment D

Weather Station Data

RES Environmental Inc.

16-POINT WIND DIRECTION INDEX

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

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Attachment E

Calibration Records

Attachment A

Instantaneous Surface Emission Monitoring Event Records

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: K. RINIKER, N JAMERSON, A. NEVAREZ, T. LEWIS, N. BANKS, A. LOPEZ

Cal. Gas Exp. Date: 05/2025

Date: 9-26-22 Instrument Used: INSPECTOR 4 MAX Grid Spacing: 25'

Temperature: 80° Precip: 0 Upwind BG: 1.9 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
116	KR	0949	1004	11.60	1	2	12	
117	KR	1006	1021	11.30	1	2	12	
118	KR	1022	1037	11.60	0	0	14	
119	KR	1038	1053	11.60	1	3	13	
120	KR	1054	1109	11.50	1	2	12	
121	KR	1110	1125	10.90	2	4	14	
122	KR	1126	1141	11.20	2	4	12	
101	KR	1144	1159	11.10	2	4	14	
81	AN	0821	0836	31.20	1	3	16	
82	AN	0840	0855	42.40	1	2	16	
83	AN	0909	0924	34.30	0	1	16	
84	AN	0926	0941	14.60	0	1	16	
85	AN	0944	0959	15.90	2	3	4	
86	AN	1003	1018	8.50	0	0	14	
87	AN	1021	1036	4.40	0	0	14	
88	AN	1040	1055	13.00	1	3	13	
89	AN	1058	1113	27.40	1	2	12	
90	AN	1146	1201	55.90	2	4	14	
91	AN	1202	1217	17.50	2	4	10	
32	NB	0800	0815	31.70	1	3	16	
33	NB	0822	0837	16.20	1	3	16	
34	NB	0848	0853	25.90	1	2	16	
35	NB	0855	0908	14.40	1	1	14	
36	NB	0909	0924	33.50	0	1	16	
37	NB	0924	0939	16.80	0	1	16	
38	NB	0940	0950	9.80	2	3	4	
39	NB	1015	1030	18.20	0	0	14	
40	NB	1039	1054	11.30	1	3	13	
41	NB	1157	1112	23.20	1	2	12	
42	NB	1112	1127	19.00	2	4	14	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: K. Rinker, N. Jamison, A. Newsom, J. Lewis, N. Banks, A. Lopez

Cal. Gas Exp. Date 05/2025

Date: 9-26-22 Instrument Used: INSPECTRA MAX Grid Spacing: 25'

Temperature: 80° Precip: 0 Upwind BG: 1.9 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
43	NB	1136	1145	10.50	2	4	12	
114	NJ	0815	0830	102.80	1	3	16	
113	NJ	0831	0846	357.40	1	2	16	
112	NJ	0848	0903	191.40	1	1	14	
111	NJ	0906	0921	101.30	0	1	16	
110	NJ	0924	0938	76.00	0	1	16	
109	NJ	0939	0954	20.70	2	3	14	
108	NJ	0955	1010	25.00	1	2	12	
107	NJ	1011	1026	37.70	1	3	13	
106	NJ	1029	1044	8.20	1	3	13	
105	NJ	1107	1124	28.40	2	4	14	
104	NJ	1127	1142	4.70	2	4	12	
103	NJ	1145	1200	5.40	2	4	14	
141	TL	0942	0957	104.20	2	3	14	
138	TL	1005	1020	142.60	1	3	13	
137	TL	1021	1036	413.50	1	3	13	
136	TL	1031	1052	328.30	1	3	13	
135	TL	1053	1108	29.80	1	3	13	
134	TL	1109	1124	32.70	2	4	14	
75	AL	0805	0820	33.20	1	3	16	
74	AL	0822	0837	24.70	1	3	16	
73	AL	0838	0853	18.00	1	2	16	
72	AL	0854	0909	19.90	1	1	14	
71	AL	0911	0926	18.40	0	1	16	
70	AL	0932	0947	20.20	2	3	4	
69	AL	0948	1003	20.20	1	2	12	
68	AL	1003	1018	14.70	0	0	14	
67	AL	1019	1034	9.50	1	3	13	
66	AL	1045	1100	21.70	1	3	13	
65	AL	1101	1116	23.80	1	2	12	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: L. Rinker, N. Jimenez, _____
A. Nelson, T. Lewis, _____
A. Banks, A. Lopez, Cal. Gas Exp. Date: 05/2025

Date: 9-26-22 Instrument Used: INSPECTRA MAX Grid Spacing: 25'

Temperature: 80° Precip: 0 Upwind BG: 1.9 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
64	AL	1117	1132	17.70	2	4	14	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: M. ORUE, N. JAMERSON, T. LEWIS, A. NEWTON, A. LOPEZ

Cal. Gas Exp. Date: 05/2025

Date: 9-27-22 Instrument Used: INSPECTOR MAX Grid Spacing: 25'

Temperature: 96° Precip: 0 Upwind BG: 1.7 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
100	MO	0848	0903	161.20	3	5	14	
95	MO	1011	1026	17.40	2	5	13	
96	MO	1153	1208	13.00	4	6	14	
97	MO	1208	1223	22.00	5	6	14	
77	NJ	0756	0811	85.70	1	2	2	
78	NJ	0812	0819	17.30	0	1	12	High Brush
79	NJ	0826	0831	25.70	2	3	14	Traffic
80	NJ	0837	0845	17.60	3	5	14	High Brush
115	NJ	0849	0855	21.10	3	5	14	Steep
142	NJ	0859	0907	25.50	3	5	14	
143	NJ	0909	0924	24.90	2	4	14	
144	NJ	0925	0937	27.40	2	4	14	Steep
145	NJ	0940	0955	345.40	1	2	14	
1	NJ	1135	1145	74.40	6	9	14	High Brush
2	NJ	1147	1152	1.40	4	6	14	High Brush
3	NJ	1154	1158	2.60	4	6	14	High Brush
4	NJ	1159	1204	2.50	4	6	14	High Brush
92	TL	0821	0831	15.90	2	3	14	Rock Pile
93	TL	0832	0847	80.60	3	5	14	
102	TL	0850	0900	6.20	3	5	14	
94	TL	0901	0916	13.20	2	3	14	
62	TL	0917	0932	191.10	2	3	14	
45	TL	0933	0948	8.20	1	2	14	
11	TL	0948	0958	4.80	1	2	14	High Brush
12	TL	0959	1009	13.10	2	4	14	
44	TL	1010	1020	8.00	2	5	13	
63	TL	1055	1110	22.40	5	6	14	
5	TL	1134	1139	2.50	3	4	14	Vegetation
6	TL	1140	1145	2.50	6	9	14	Vegetation
7	TL	1152	1202	2.20	4	6	14	Vegetation

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: M. ORUE, N. JAMERSON, T. LEWIS, A. NOVERON, A. LOPEZ, A. LIRA-Z

Cal. Gas Exp. Date: 05/2025

Date: 9-27-22 Instrument Used: INSPECTOR MAX Grid Spacing: 25'

Temperature: 96° Precip: 0 Upwind BG: 1.7 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
13	AN	0815	0830	13.30	2	3	14	
14	AN	0831	0846	24.80	3	5	14	
15	AN	0849	0905	20.70	3	5	14	
16	AN	0900	0910	26.20	3	6	14	Vegetation
17	AN	0912	0927	18.20	2	4	14	
18	AN	0928	0943	16.70	1	2	14	
19	AN	0948	1003	4.10	2	4	14	
20	AN	1024	1039	2.00	2	4	14	
21	AN	1043	1058	13.30	4	6	14	
22	AN	1100	1115	417.90	5	8	14	
8	AN	1138	1148	2.50	4	6	14	
9	AN	1150	1200	2.90	4	6	14	
10	AN	1202	1207	3.10	5	6	14	
23	AL	0802	0817	57.10	0	1	12	
24	AL	0819	0834	45.30	2	4	14	
25	AL	0835	0850	86.20	3	5	14	
26	AL	0850	0905	20.50	3	5	14	
27	AL	0906	0921	3300	2	4	14	
28	AL	0923	0938	13.30	2	4	14	
29	AL	0939	0954	4.40	1	2	14	
30	AL	0956	1011	4.40	2	4	14	
31	AL	1013	1028	15.50	2	5	13	
76	AL	1028	1043	7.30	3	5	14	
54	AL	1120	1130	8.80	4	5	14	Vegetation
53	AL	1136	1146	4.10	5	9	14	Vegetation
52	AL	1147	1157	11.00	3	6	14	Vegetation
51	AL	1159	1209	9.40	4	6	14	Vegetation

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: T. Lewis, N. Jamerson, G. Robles, A. Lopez, L. Betancourt, A. Rodea

Cal. Gas Exp. Date: 1-23-23

Date: 9-28-22 Instrument Used: INSPECTRA MAX Grid Spacing: 25'

Temperature: 96 Precip: 0 Upwind BG: 1.6 Downwind BG: 2.3

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
128	TL	0830	0840	72.90	1	3	2	
130	TL	1009	1019	40.90	0	2	2	
129	GR	0827	0850	14.60	1	2	2	
131	GR	0909	0921	14.10	1	3	2	
132	GR	0923	0933	8.70	1	2	4	
133	GR	0936	0946	3.40	1	2	6	
46	AR	0826	0811	16.10	1	2	16	
47	AR	0848	0831	11.50	1	2	2	
48	AR	0844	0902	5.70	1	1	4	
49	AR	0905	0926	11.20	1	3	2	
50	AR	0922	0937	7.10	1	2	4	
61	NT	0822	0836	98.30	1	2	2	
60	NT	0839	0854	81.60	1	2	2	
59	NT	0855	0905	1052.20	1	1	4	
58	NT	0906	0911	8.10	1	2	4	
57	NT	0913	0920	7.10	1	3	2	
127	LB	0825	0840	59.50	1	2	2	
126	LB	0847	0852	33.20	1	2	2	
125	LB	0854	0904	82.90	1	1	4	
124	LB	0909	0919	56.30	1	3	2	
123	LB	0923	0935	45.10	1	2	4	
56	AL	0816	0831	17.70	1	2	2	
55	AL	0832	0847	14.20	1	2	2	
88	AL	1007	1022	7.80	0	2	2	
89	AL	1023	1038	10.80	1	3	6	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 1

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: T. Lewis
A. Lopez

Cal. Gas Exp. Date: 05/2025

Date: 9-30-22 Instrument Used: INSPECTRA MAX Grid Spacing: 25'

Temperature: 91° Precip: 0 Upwind BG: 1.6 Downwind BG: 2.3

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
99	TL	0956	1006	4.10	1	2	14	
98	TL	0746	0756	7.90	1	2	4	
129	AL	0738	0748	14.60	0	1	4	
130	AL	0749	0759	40.90	1	2	4	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 1

Waste Management Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs

Quarter: 3rd QTR

Initial Monitoring Performed By: Michael Urne

Follow-up Monitoring Performed By: [illegible]

Landfill Name: Simi Valley

Initial Monitoring Event				Corrective Action within 5 Days		1st 10-Day Follow-Up			1st 30-Day Follow-Up			Comments
Grid #	Flag #	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exceed. <500 ppm	Exceed. >500 ppm	Monitoring Date	No Exceed. <500 ppm	Exceed. >500 ppm	
85	Y1	7,104	9-21-22		water / dirt	9-29-22	32.1		10-20-22	6		1780D
86	Y2	3,319					411			4		1104
68	Y3	5,098					221			32		1605
69	Y4	1,422					314			23		2043S
35	Y5	1,128					182			12		1755
31	Y6	511					241			5		116R
32	Y7	560					269			34		1570S
83	Y21	13,000					781			381		1778M
67	Y23	1,468					232			56		1362A
39	Y25	3,157					191			103		707D
38	Y26	1,425					63.81			15		1792D
149	Y41	3,631					26.91			211		2089
18	Y42	791					81.41			8		2006
14	Y63	681					77.81			19		709D
72	Y81	1,051					63.22			163		1784
71	Y82	513					99.41			29		1805S
57	Y201	7,432	9-22-22				481			455		S2E03
131	Y262	712					606.40			9		2078
151	Y203	611					74.02			37		1810
45	Y241	902					232			374		W010R
138	Y261	2,642					381			271		2003
59	Y300	1,052.2	9-28-22				216			257		surface

Blue Flag (200-499 ppm) Landfill Surface Emissions Monitoring
10 Day Exceedances and Monitoring Log

Site: Simi Valley

Quarter / Year:	3rd 2022	3rd 2022	Page 1 of 1 Pages
Technician:	Michael Abue	JAMAL Gadell	
Instrument:	TVA1000	TVA1000	
Calibration Standard:	500PPM	500ppm	

Initial Monitoring Event					Re-Monitoring Event – 10 Days				Comments
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	Field Reading <200 ppm	Field Reading >200 ppm	
137	B421	SURFACE	413	9-26-22	WATER/DIRT	9-29-22	101		
136	B422	Surface	411	↓	↓	↓	63.42		
113	B423	SURFACE	357.7	↓			42.73		
145	B480	Surface	249	9-27-22			98.91		
145	B481	Surface	345.4	↓			81.34		
90	B500	Surface	218.5	9-29-22			47.37		
136	B501	Surface	209.8	↓	↓	↓	52.11		
105	B550	Surface	491.5	9-30-22	COMPACTED DIRT	10-7-22	38.06		
112	B551	Surface	269.8	↓	↓	↓	94.59		

Blue Flag (200-499 ppm) Landfill Surface Emissions Monitoring
10 Day Exceedances and Monitoring Log

Site: Simi Valley

Quarter / Year:	3rd / 2022	3rd / 2022	Page 1 of 1 Pages
Technician:	Michael ORUG	JAMAL AAD	
Instrument:			
Calibration Standard:	500PPM		

Initial Monitoring Event					Re-Monitoring Event – 10 Days				Comments
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	Field Reading <200 ppm	Field Reading >200 ppm	
92	B21	17995	225	9-21-22	water/dirt	9-29-22	116		
114	B22	2058	290	↓		↓	180		
69	B61	1786	225	↓		↓	94.46		
71	B62	1224	298	↓		↓	79.81		
105	B81	1794	201	↓		↓	161		
185	B23	21015	466	↓		↓	141		
88	B24	1781	374	↓		↓	92.36		
157	B241	2107	210	9-22-22		↓	2761		
141	B261	2005	299	↓		↓	54.92		
134	B262	2093	322	↓		↓	171		

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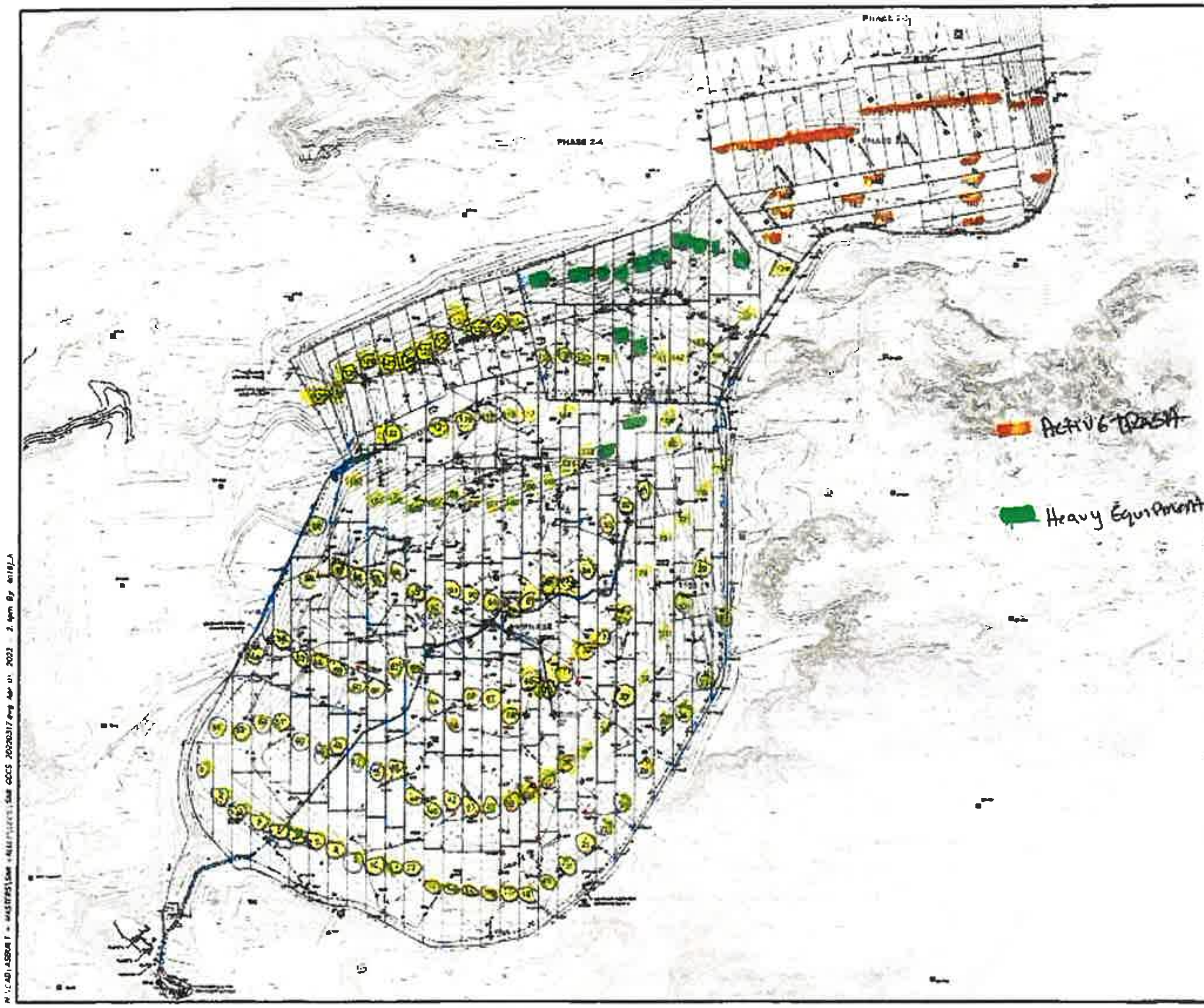


SCALE: 1"=250

SYMBOL LEGEND

- ACTIVE VERTICAL WELL
- VERTICAL WELL WITH TEMPERATURE VARIANCE
- HORIZONTAL COLLECTOR WELLHEAD
- HORIZ WELL WITH TEMPERATURE VARIANCE
- CONDENSATE SUMP
- REMOTE WELLHEAD
- LEACHATE RISER
- MONITORING PROBE
- VALVE
- SVE WELL
- SEM COVER PENETRATION
- EXISTING GRAVEL PADS
- 2021 NEW GRAVEL PADS
- DECOMMISSIONED WELL
- DECOMMISSIONED HORIZONTAL WELL
- DECOMMISSIONED MONITORING PROBE
- 24" HEADER
- 18" HEADER
- 12" HEADER
- 10" HEADER
- 8" LATERAL
- 6" LATERAL
- 4" LATERAL
- HORIZONTAL COLLECTOR - SOLID
- HORIZONTAL COLLECTOR - PERFORATED
- BELOW GRADE CONDENSATE FORCEMAIN
- ABOVE GRADE DEWATERING FORCEMAIN
- COMPRESSED AIR LINE
- REMOTE MANIFOLD
- AIR RELEASE VALVE
- CONDENSATE FORCEMAIN ISOLATION VALVE
- CONDENSATE FORCEMAIN CLEANOUT
- WELL WITH PUMP AND BUBBLER
- WELL WITH BUBBLER
- PHASE BOUNDARY
- LCRS PIPE

3rd QTR
ISM
2022

NOTES

1. AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING, DATED 2-7-22
2. EXISTING GCCS AS BUILTS DATED 3-17-2022
3. BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-JTD BOUNDARIES WITH 3-5 SUBPHASES"

NO	REVISION	DATE

SHEET TITLE: SEM PENETRATION MAP

PROJECT TITLE: SIMI VALLEY LANDFILL AND RECYCLING CENTER, 2801 MADERA ROAD, SIMI VALLEY, CALIFORNIA

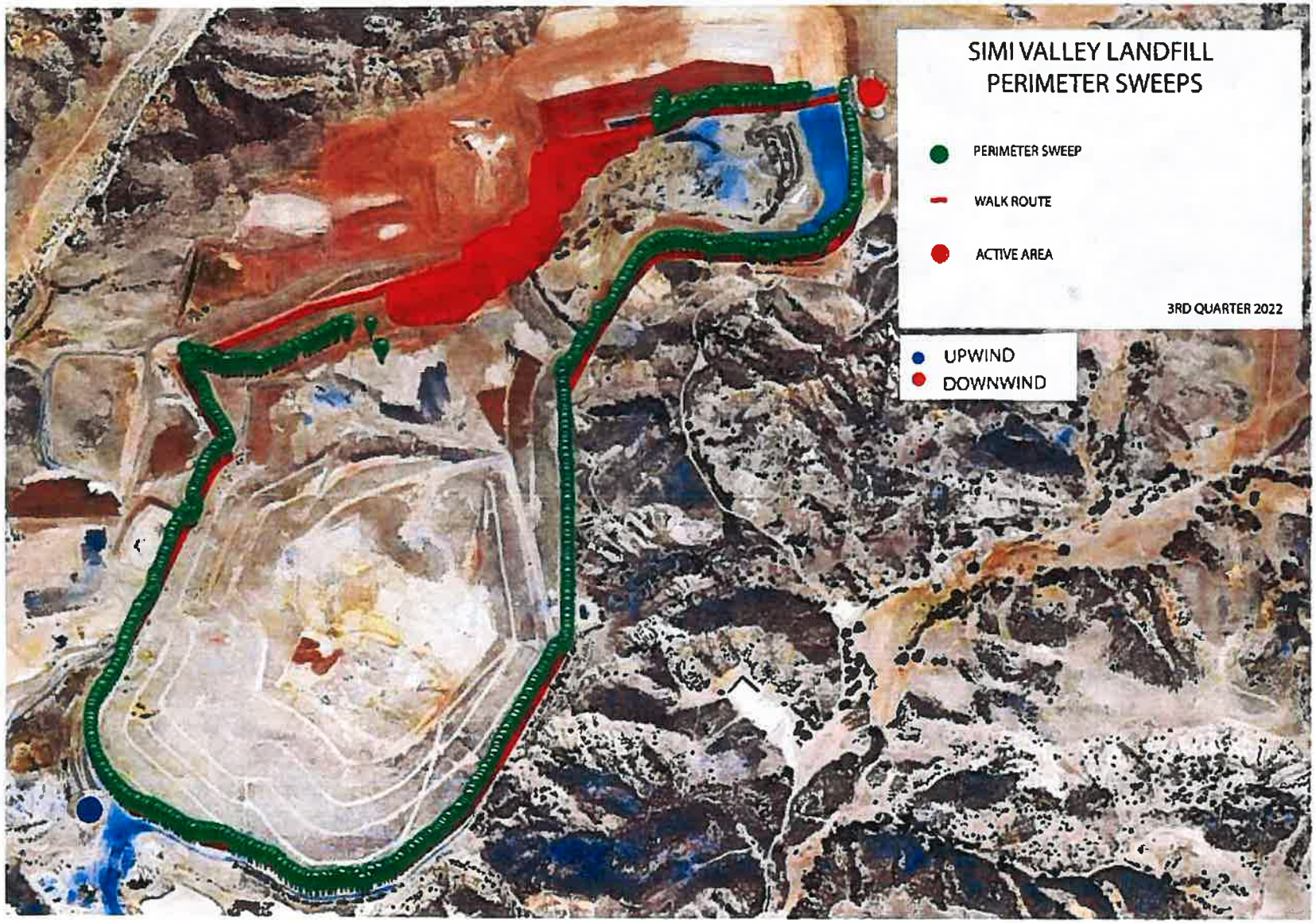
CLIENT: WM WASTE MANAGEMENT

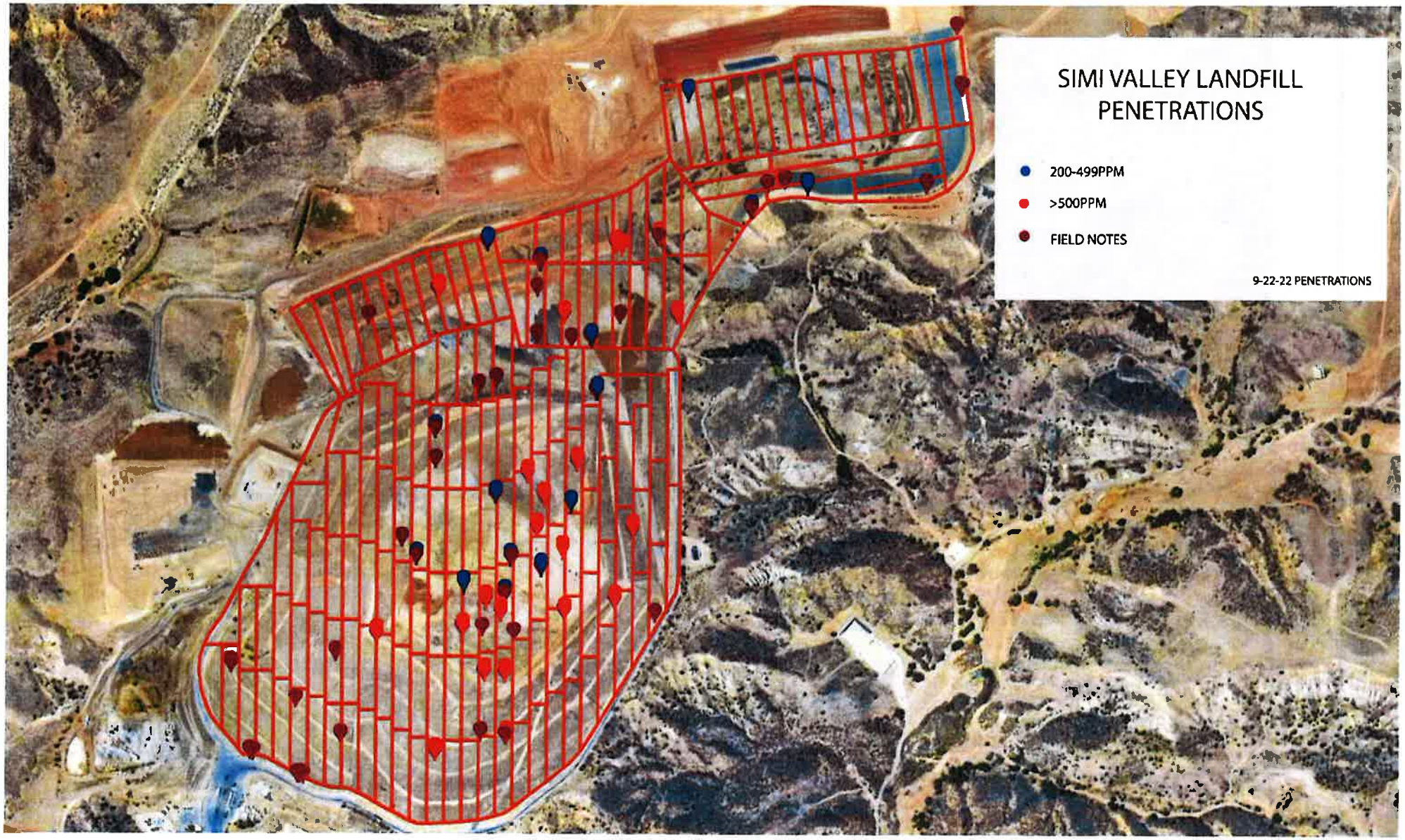
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS

DATE: 03-17-2022

SCALE: AS SHOWN

DRAWING NO: 3 of 3


SIMI VALLEY LANDFILL
PERIMETER SWEEPS
PERIMETER SWEEP
WALK ROUTE
ACTIVE AREA
3RD QUARTER 2022
UPWIND
DOWNWIND


SIMI VALLEY LANDFILL
PENETRATIONS
200-499PPM
>500PPM
FIELD NOTES
9-22-22 PENETRATIONS

SIMI VALLEY SEM MONITORING **DATE:** 4-21/22-22

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW0809	3	2		
SIMW0019	4	1		
SIMW0001	6	3		
SIMW0002	6	2		
SIMW0808	7	1		
SIMW0020	8	2		
SIMW1808	8	2		
SIMW0004	9	1		
SIMW0006	10	1		
SIMH021S	11	2		
SIMW1015	13	2		
SIMW709D	14	681		
SIMW709S	14	25		
SIMH0017	16	1		
SIMH018S	16	1		
SIH1363B	17	3		
SIMW0708	17	23		
SIMW2006	18	769		
SIMH022S	19	2		
SIMW2007	20	3		
SIMW2008	20	2		
SIH1361B	21	2		
SIMSVE02	21	14		
SIMLR00B	21	158		
SIMH016N	22	40		
SIH1359B	24	SLOPE		
SIMI0905	24	2		
SIMI0904	25	3		
SIMH022N	27	12		
SIMI0903	27	12		
SIMI0901	29	3		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMI0902	30	3		
SIMW115S	30	2		
SIMW116R	31	711		
SIMW1565	31	31		
SIMW2084	31	31		
SIM1570D	32	80		
SIM1570S	32	560		
SIMW2045	33	2		
SIMW703D	33	2		
SIMW703S	33	4		
SIMW1785	35	1,128		
SIMW2083	35	6		
SIMW1233	36	183		
SIMW1790	36	60		
SIMW1571	37	3545		
SIH1362B	38	1		
SIM1792D	38	1,428		
SIM1792S	38	77		
SIMW1232	39	BRUSH		
SIMW707D	39	3,157		
SIMW1791	40	BRUSH		
SIM2042D	41	BRUSH		
SIM2042S	41	BRUSH		
SIMW805D	41	3		
SIMW805S	41	3		
SIMW1231	42	57		
SIMW2041	43	BRUSH		
SIMW09RD	44	2		
SIMW1012	44	4		
SIMW1228	44	6		
SIMWO9RS	44	2		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW010R	45	902		
SIMW007R	46	5		
SIMW1227	47	9		
SIMW1234	47	36		
SIM1572D	48	15		
SIM1572S	48	275		
SIMW810D	51	/		
SIMW810S	51	7		
SIMW0018	52	4		
SIMW0812	52	1		
SIMW0811	53	1		
SIMLR00D	55	3		
SIMW0003	57	5,853		
SIMW0813	57	DRY/SA		
SIMW2009	57	7		
SIMW1014	58	6		
SIMW1107	59	3		
SIH1405B	60	56		
SIH1406B	60	9		
SIMW1806	60	9		
SIMW1013	61	9		
SIMW1226	62	2		
SIMW1011	63	2		
SIM1673S	64	21		
SIM1793D	64	64		
SIM1793S	64	79		
SIMW012R	64	75		
SIH1406A	65	3		
SIM2044D	65	2		
SIM2044S	65	2		
SIMW1229	65	4		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIM1788D	66	6		
SIM1788S	66	96		
SIH1362A	67	1,400		
SIH1404A	67	3		
SIMW1008	67	7		
SIMW1787	67	188		
SIM1789D	68	1,255		
SIM1789S	68	14		
SIM2054D	68	154		
SIM2054S	68	25		
SIMW1005	68	5,098		
SIMW1225	68	2		
SIM2043D	69	52		
SIM2043S	69	1,422		
SIMW1786	69	225		
SIM1573D	70	43		
SIM1573S	70	9		
SIM1783D	70	2,253		
SIM1783S	70	2,569		
SIM2064D	70	3		
SIM2064S	70	5		
SIMW2086	70	17		
SIM1805D	71	513		
SIM1805S	71	22		
SIMW1224	71	298		
SIMW1569	71	3		
SIH1359A	72	3		
SIM1927S	72	2		
SIMW1784	72	1,081		
SIMW1779	73	500		
SIM1568D	74	2		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIM1568S	74	2		
SIM2052D	74	2		
SIM2052S	74	3		
SIMW2065	74	2		
SIM1564D	75	2		
SIM1564S	75	4		
SIMW0202	76	2		
SIMW0045	78	3		
SIMW1563	78	3		
SIM1562D	81	2		
SIM1562S	81	2		
SIM2061D	82	3		
SIM2061S	82	2		
SIM1778D	83	13,000		
SIM1778S	83	88		
SIMW1802	83	2		
SIMW822D	83	2		
SIMW822S	83	BRUSH		
SIMW1220	84	2		
SIMW2053	84	2		
SIM1780D	85	7,104		
SIM1780S	85	34		
SIH1401A	86	70		
SIMW1104	86	3,319		
SIMW2047	86	2		
SIH1403A	88	35		
SIM2081D	88	3		
SIM2081S	88	3		
SIMW1105	88	3		
SIMW1781	88	1		
SIMHL005	88	9		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIM1782D	89	2		
SIM1782S	89	1		
SIM1928S	89	1		
SIMW2056	89	2		
SIMLR0AR	89	7		
SIMW1356	90	21		
SIMLR00A	90	8		
SIM1929S	91	1		
SIMW1797	91	17		
SIMW1801	91	2		
SIM1799D	92	31		
SIM1799S	92	225		
SIMW1222	93	2,500		
SIMW2046	93	2		
SIMW2049	93	8		
SIMW1798	94	13		
SIMW1010	95	7		
SIMW1355	95	3		
SIMW2048	95	15		
SIM1937S	96	4		
SIH1403B	97	BAUSH		
SIH1404B	97	BAUSH		
SIMW0814	98	8		
SIMLR602	99	STEPSLOPE		
SIMLR603	99	STEPSLOPE		
SIMW0816	99	STEPSLOPE		
SIMW0817	100	98		
SIMW0818	101	7		
SIMW0819	103	11		
SIMW1102	103	5		
SIMW1796	103	87		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW2055	104	160		
SIM2105S	104	2		
SIM1933S	105	71		
SIM1938S	105	12		
SIMW1354	105	3		
SIMW1794	105	201		
SIH2001A	106	17		
SIM1932S	106	8		
SIMW1007	106	161		
SIM1931S	107	5		
SIMW1807	107	8		
SIMW1353	108	2		
SIMW1795	108	2		
SIH2001B	109	3		
SIM1930S	109	6		
SIMW1803	109	2		
SIM1777D	110	87		
SIM1777S	110	15		
SIM1924S	110	2		
SIMW1101	110	12		
SIMW1219	110	18		
SIMW1776	110	34		
SIMHL002	110	2		
SIMHL003	110	2		
SIMW2057	111	4		
SIMHL001	112	BRUSH		
SIMW0048	113	2		
SIMW2062	113	13,877		
SIMW1816	114	16,068		
SIMW2058	114	290		
SIMW1561	115	3		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW2060	116	77		
SIMW0031	117	7		
SIMW2001	117	8		
SIH1401B	119	384		
SIMW2099	119	4		
SIMW0820	120	5		
SIMW2059	120	5		
SIMW2098	122	9		
SIMLR31A	123	BRUSH		
SIMW2076	126	15		
SIMW2096	127	5		
SIMW2097	127	56		
SIMW2077	128	6		
SIMW2095	129	18		
SIMW2074	130	4		
SIMW2078	131	712		
SIMW2073	132	10		
SIMW2094	132	96		
SIMW2079	133	12		
SIM2102S	133	9		
SIMW2072	134	64		
SIMW2093	134	322		
SIM2103S	134	11		
SIMW2080	135	135		
SIM2104S	135	14		
SIMW2002	136	987		
SIMW2071	136	12		
SIMW2087	136	1,214		
SIMW2088	137	1,601		
SIMW2003	138	2,642		
SIMW2004	138	30		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW1809	139	13		
SIMW1815	139	72		
SIMW1814	141	4		
SIMW2005	141	299		
SIMW1817	142	3		
SIMW1811	143	4		
SIMW1813	143	18		
SIMW2082	143	2		
SIMW1812	144	4		
SIMW1821	144	6		
SIMW2070	144	4		
SIMSVE03	144	BRUSH		
SIH02004	145	4		
SIM1936S	145	4		
SIH2115F	146	2		
SIH02106	146	2		
SIH02105	146	2		
SIMW1820	149	BRUSH		
SIMW2089	149	2,983		
SIMW1810	151	611		
SIMW1819	151	165		
SIMW1818	153	6		
SIMW2090	153	51		
SIMW2091	155	32		
SIMW2092	156	37		
SIH2115E	157	4		
SIH02107	157	4		
SIH02108	157	2		
SIH2115D	158	7		
SIH02109	158	2		
SIH02110	158	27		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIH2115C	**159**	23		
SIH02111	**159**	2		
SIH02112	**159**	1		
SIH2115B	**161**	5		
SIH2115A	**168**	4		
SIH02113	**168**	4		
SIH02114	**168**	9		
SIMLR22A	**168**	3		
SIMLR22B	**168**	41		
SIM2101S	**184**	Active Heavy Equipment		
SIM2100S	**185**	↓		
SIMLR22C	**185**	↓		

Attachment B

Integrated Surface Emission Monitoring Event Records

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: T. Lewis, A. Loera, N. Jamerson, A. Ireden, G. Robles, L. Betancourt

Cal. Gas Exp. Date: 05/2025

Date: 9-27-22 Instrument Used: INSPECTION MAY Grid Spacing: 25

Temperature: 96 Precip: 0 Upwind BG: 1.7 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
128	TL	1034	1039	4.23		3	5	14	
122	TL	1040	1105	5.77		4	5	14	
121	TL	1105	1115	2.26		4	6	14	
127	LB	1007	1022	4.61		3	5	13	
126	LB	1023	1036	3.97		3	5	13	
125	LB	1041	1056	2.58		3	5	14	
124	LB	1106	1115	2.93		5	6	14	
123	LB	1116	1131	1.63		4	6	14	
129	GR	1008	1021	3.17		2	5	13	
130	GR	1022	1037	7.32		3	5	14	
131	GR	1038	1053	2.92		3	5	14	
132	GR	1054	1109	6.59		3	4	14	
133	GR	1110	1134	5.91		3	4	14	
36	NS	1013	1023	3.01		3	5	13	
37	NS	1026	1036	4.59		3	5	13	
38	NS	1039	1049	4.20		3	5	14	
39	NS	1051	1101	4.98		4	5	14	
68	NS	1103	1128	3.57		4	5	14	
71	AR	1009	1024	3.61		3	4	14	
72	AR	1037	1102	3.33		3	5	14	
73	AR	1104	1119	2.51		5	6	14	
74	AR	1120	1131	2.48		4	5	14	
33	AR	1135	1145	2.12		6	9	14	
70	AL	1045	1100	3.77		3	5	14	
69	AL	1103	1118	2.90		5	6	14	
87	AL	1120	1135	4.37		3	4	14	
86	AL	1137	1152	2.85		4	6	14	
85	AL	1155	1205	2.57		4	6	14	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: T. Lewis, A. Lopez, S. Camarena, N. Jamerson, L. Betancourt, A. Noveron, G. Robles

Cal. Gas Exp. Date: 05/2025

Date: 9-29-22 Instrument Used: INSPECTA MAX Grid Spacing: 25'

Temperature: 92° Precip: 0 Upwind BG: 1.9 Downwind BG: 2.5

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
88	TL	0801	0821	7.56		1	3	16	Rock Pile
89	TL	0821	0836	10.01		1	3	16	High Brush
90	TL	0840	0855	9.60		1	3	16	Rock Pile
91	TL	0855	0910	3.68		2	3	14	Rock Pile
92	TL	0911	0921	3.06		1	2	14	Heavy Equipment
93	TL	0922	0937	4.27		1	2	14	Rock Pile
94	TL	0938	0948	4.08		3	3	14	High Brush
95	TL	1002	1022	3.01		0	1	6	High Brush
96	TL	1023	1043	3.45		2	4	6	High Brush
97	TL	1044	1104	2.28		3	4	7	Steep Slope
99	TL	1104	1119	1.95		2	4	6	Steep Slope
135	TL	1155	1210	2.71		3	5	6	Heavy Equipment
11	NJ	0741	0752	10.66		1	2	16	High Brush
12	NJ	0753	0807	13.25		1	2	14	High Brush
13	NJ	0808	0820	6.91		1	3	16	High Brush
14	NJ	0822	0835	5.67		1	3	16	Steep Slope
15	NJ	0837	0850	4.32		1	3	16	Steep Slope
16	NJ	0854	0902	8.24		1	2	16	Steep Slope
17	NJ	0904	0915	3.63		2	3	14	High Brush
18	NJ	0916	0932	2.57		1	2	14	Steep Slope
19	NJ	0934	0950	2.22		3	3	14	Steep Slope
20	NJ	0950	1007	2.35		0	0	16	Steep Slope
120	NJ	1034	1059	2.68		2	4	6	
119	NJ	1102	1120	2.61		1	3	6	Stock Pile
118	NJ	1122	1139	2.49		2	3	6	Stock Pile
136	NJ	1159	1215	7.98		1	4	6	Rock Pile
40	AN	0749	0800	7.77		1	3	16	Dirt Stock Pile
41	AN	0801	0811	13.60		0	1	16	Dirt Stock Pile
42	AN	0814	0839	15.73		1	3	16	
43	AN	0840	0905	4.35		1	2	16	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: T. Lewis, A. Lopez, S. Camarena, N. Jamerson, L. Betancourt, A. Newton, G. Robles

Cal. Gas Exp. Date: 05/2025

Date: 9-29-22 Instrument Used: INSPECTOR MAX Grid Spacing: 25'

Temperature: 92° Precip: 0 Upwind BG: 1.9 Downwind BG: 2.5

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
44	AN	0906	0931	2.98		1	2	NW	
63	AN	0932	0957	4.05		3	3	NW	
64	AN	0959	1009	3.42		0	0	W	Heavy Equipment
65	AN	1013	1023	3.24		0	1	S	Heavy Equipment
66	AN	1026	1038	2.97		2	5	S	Heavy Equipment
67	AN	1040	1104	4.37		2	4	7	
137	AN	1206	1214	7.98		4	6	11	Dirt Stockpile
62	AL	0751	0816	28.34		0	1	16	
61	AL	0817	0847	16.53		1	3	16	
60	AL	0843	0908	9.70		1	2	16	
59	AL	0910	0935	6.59		1	2	14	
58	AL	0936	0951	5.32		3	3	14	High Brush
57	AL	0953	1018	2.74		0	1	S	
56	AL	1020	1035	2.23		2	5	S	High Brush
55	AL	1036	1051	2.76		2	4	S	High Brush
98	AL	1059	1114	2.61		2	4	S	Steep Slope
134	AL	1156	1211	5.69		4	6	11	Heavy Equipment
54	LB	0742	0757	23.35		1	3	16	High Brush
53	LB	0800	0815	13.79		0	1	16	High Brush
52	LB	0817	0832	12.10		1	3	16	High Brush
51	LB	0832	0847	4.52		1	3	16	High Brush
50	LB	0848	0913	3.01		2	3	14	Steep Slope
49	LB	0913	0928	2.18		1	2	14	Steep Slope
48	LB	0828	0843	1.84		1	3	16	Steep Slope
47	LB	0944	0959	1.95		3	3	14	Steep Slope
46	LB	1000	1015	3.01		0	1	S	Steep Slope
45	LB	1020	1035	2.28		2	5	S	Steep Slope
82	LB	1113	1138	2.78		2	3	S	
81	LB	1139	1154	1.81		3	5	S	Heavy Equipment
1	GR	0747	0802	6.46		1	3	16	High Brush

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: T. Lewis, A. Lopez, S. Camarena, N. Jamerson, L. Betancourt, A. Neverdon, G. Robles

Cal. Gas Exp. Date: 05/2025

Date: 9-29-22 Instrument Used: ENSDECTRA MAX Grid Spacing: 25'

Temperature: 92° Precip: 0 Upwind BG: 1.9 Downwind BG: 2.5

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
2	GR	0805	0820	18.44		1	2	2	High Brush
3	GR	0821	0836	5.06		1	3	16	High Brush
4	GR	0837	0852	3.75		1	3	16	High Brush
5	GR	0853	0908	3.55		1	2	16	High Brush
6	GR	0917	0932	3.48		1	2	14	High Brush
7	GR	0938	0953	3.40		3	3	14	High Brush
8	GR	0953	1008	3.19		0	0	16	High Brush
9	GR	1012	1026	3.14		0	1	8	High Brush
10	GR	1033	1048	2.83		2	4	8	High Brush
84	GR	1111	1126	3.48		1	3	8	Compost Stockpile
83	GR	1128	1152	3.33		3	5	8	
21	SC	0746	0811	11.58		0	1	16	
22	SC	0812	0837	17.89		1	3	16	
23	SC	0838	0903	10.28		1	3	16	
24	SC	0904	0929	7.46		1	2	14	
25	SC	0930	1000	3.41		3	3	14	
26	SC	1028	1053	3.60		2	4	8	
27	SC	1110	1135	3.10		2	3	8	
28	SC	1139	1204	2.12		3	5	8	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: T. Lewis, A. Lopez, A. Noverom, S. Comerena, M. Jamerson, L. Betancourt, G. Robles

Cal. Gas Exp. Date: 05/2025

Date: 9-30-22 Instrument Used: INSPECTAR MAX Grid Spacing: 25'

Temperature: 91° Precip: 0 Upwind BG: 1.6 Downwind BG: 2.3

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
106	TL	0832	0847	7.17		1	2	16	STEEP SLOPE/DIRT STOCK P
107	TL	0848	0903	7.42		0	1	16	STEEP SLOPE/DIRT STOCKP
108	TL	0903	0920	4.07		1	2	14	Heavy Brush
109	TL	0920	0935	4.59		1	2	4	STEEP/Mulch Pile
110	TL	0936	0956	4.76		2	4	12	Heavy Brush
111	TL	0956	1011	2.37		3	5	14	Heavy Brush/Rock Pile
84	TL	1237	1303	3.48		4	6	12	
100	AL	0828	0853	5.57		1	2	14	
101	AL	0858	0918	7.26		1	2	14	Heavy Brush
102	AL	0919	0934	8.36		1	2	14	Heavy Brush
103	AL	0935	0953	6.70		2	4	12	Heavy Brush
104	AL	0957	1022	8.14		1	2	2	
105	AL	1023	1048	9.09		2	2	12	
83	AL	1237	1302	3.33		4	6	13	
133	AN	0738	0758	8.37		1	2	4	
117	AN	0826	0851	2.20		1	2	14	
116	AN	0853	0918	3.99		1	3	16	
112	AN	0920	0945	5.13		1	1	5	
138	AN	0955	1010	29.76		3	5	14	Dirt Stock Pile/STEEP SLOPE
29	SC	0740	0805	3.42		1	2	4	
30	SC	0809	0835	4.15		1	2	14	
146	SC	0852	0915	3.93		1	2	5	
130	NJ	0740	0800	8.96		1	2	4	STEEP SLOPE/TRAFFIC
35	NJ	0836	0901	4.11		0	1	16	
34	NJ	0903	0928	3.56		1	2	14	
32	NJ	0948	1004	2.98		1	2	14	Heavy Brush/STEEP SLOPE
31	NJ	1009	1025	3.07		1	2	2	Heavy Brush/STEEP SLOPE
131	LB	0738	0755	12.99		1	2	4	Heavy Equipment
79	LB	0830	0845	8.27		1	2	16	TRAFFIC
78	LB	0845	0900	4.24		0	1	16	Heavy BRUSH

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: T. Lewis, S. Camerena, G. Robles, A. Lopez, N. Jamaerson, A. Noveron, L. Beteta Coldt

Cal. Gas Exp. Date: 05/2025

Date: 9-30-27 Instrument Used: INSAZCOM MAX Grid Spacing: 25'

Temperature: 91° Precip: 0 Upwind BG: 1.6 Downwind BG: 2.3

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
80	LB	0905	0920	3.78		1	2	14	STEEP SLOPE
77	LB	0923	0938	2.63		1	2	4	STEEP SLOPE
76	LB	0940	0955	3.29		2	4	12	STEEP SLOPE
75	LB	0957	0912	2.38		1	3	16	STEEP SLOPE
144	LB	1036	1051	3.95		2	2	12	STEEP SLOPE
132	GR	0738	0801	6.59		1	2	4	
115	GR	0829	0849	6.24		1	2	16	STEEP SLOPE
141	GR	0855	0914	8.50		1	3	16	STEEP SLOPE
142	GR	0917	0932	7.59		1	2	4	STEEP SLOPE
143	GR	0933	0950	3.15		1	1	5	STEEP SLOPE
144	GR	0957	1006	3.95		1	2	14	STEEP SLOPE
145	GR	1019	1034	5.50		1	2	2	STEEP SLOPE

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: M. ORUS _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 9-30-22 Instrument Used: _____ Grid Spacing: _____

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
113									Heavy Equipment
114									
139									
140									
147									
148									
149									
150									
151									
152									
153									
154									
155									
156									
157									Active TRASH
158									
159									
160									
161									
162									
163									
164									
165									
166									
167									
168									
169									
170									
171									
172									

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: M. MORA _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 9-30-22 Instrument Used: _____ Grid Spacing: _____

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
173									ACAVE TRASH
174									
175									
176									
177									
178									
179									
180									
181									
182									
183									
184									
185									

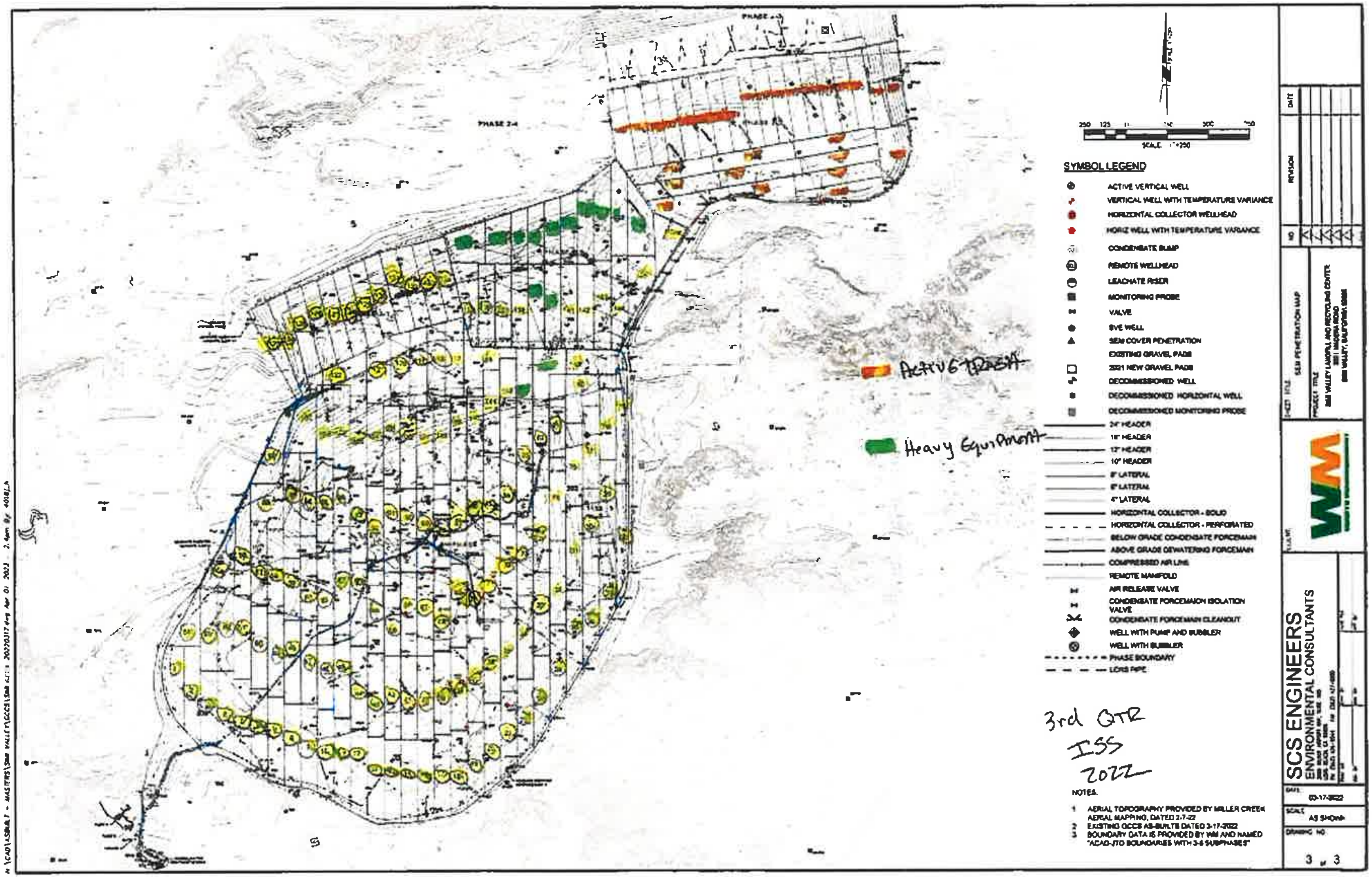
Attach Calibration Sheet
Attach site map showing grid ID

Integrated Surface Sampling
10 Day Exceedances and Monitoring Log

Site: SIMI VALLEY LANDFILL

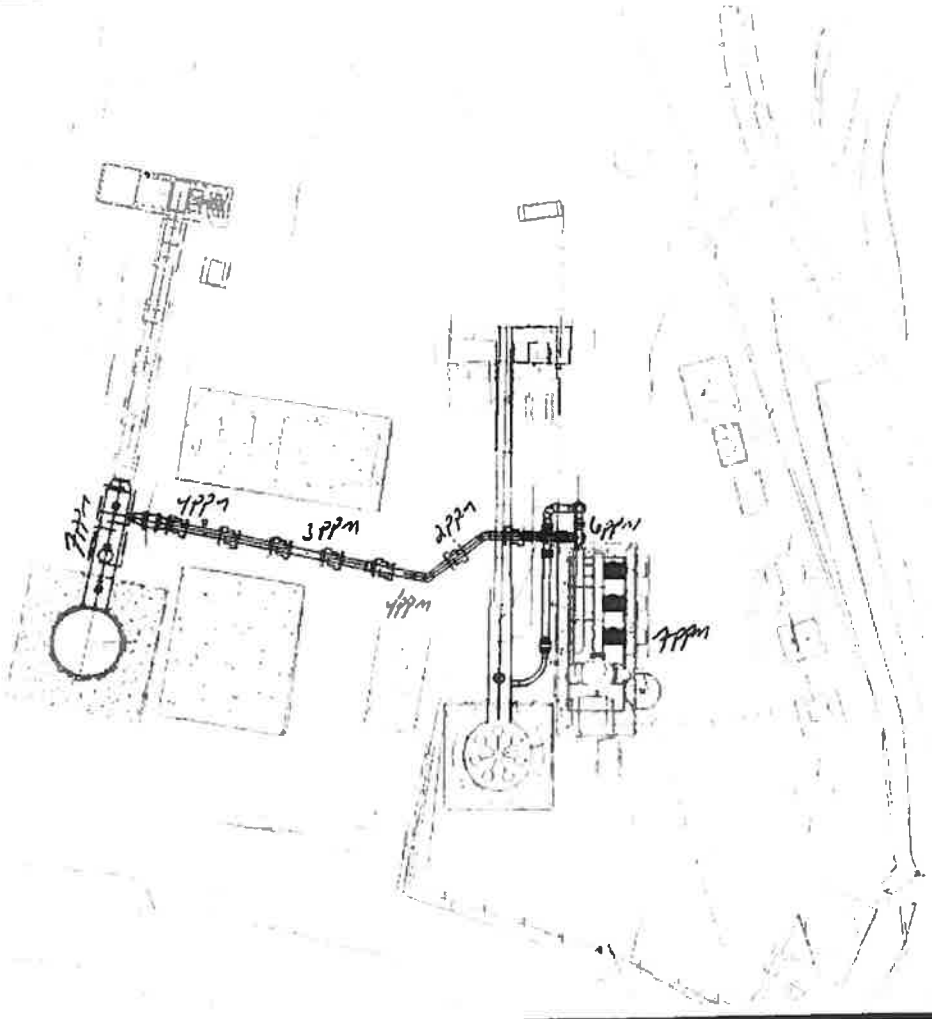
Quarter / Year:	3RD 2022	4th QTR 2022
Technician:	M. ORVE	M. ORVE
Instrument:	INSPECTRA	TVA1000
Calibration Standard:	500 PPM	500PPM

Initial Monitoring Event			First Re-Monitoring Event – 10 Days				Second Re-Monitoring Event – 10 Days			
Grid Number	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	No Excd. <25 ppm	Excd. >25 ppm	Remedial Work	Date Monitored	No Excd <25 ppm	Excd >25 ppm
138	29.76	9-30-22		10-7-22	23.56					
62	25.34	9-29-22		↓	21.94					


PHASE 2-4
Active TRASH
Heavy Equipment
SCALE 1"=250
SYMBOL LEGEND
ACTIVE VERTICAL WELL
VERTICAL WELL WITH TEMPERATURE VARIANCE
HORIZONTAL COLLECTOR WELLHEAD
HORIZ WELL WITH TEMPERATURE VARIANCE
CONDENSATE SUMP
REMOTE WELLHEAD
LEACHATE RISER
MONITORING PROBE
VALVE
SVE WELL
SEM COVER PENETRATION
EXISTING GRAVEL PADS
2021 NEW GRAVEL PADS
DECOMMISSIONED WELL
DECOMMISSIONED HORIZONTAL WELL
DECOMMISSIONED MONITORING PROBE
24" HEADER
18" HEADER
12" HEADER
10" HEADER
8" LATERAL
6" LATERAL
4" LATERAL
HORIZONTAL COLLECTOR - SOLID
HORIZONTAL COLLECTOR - PERFORATED
BELOW GRADE CONDENSATE FORCEMAIN
ABOVE GRADE DEWATERING FORCEMAIN
COMPRESSED AIR LINE
REMOTE MANIFOLD
AIR RELEASE VALVE
CONDENSATE FORCEMAIN ISOLATION VALVE
CONDENSATE FORCEMAIN CLEANOUT
WELL WITH PUMP AND BUBBLER
WELL WITH BUBBLER
PHASE BOUNDARY
LCRS PIPE
3rd QTR
ISS
2022
NOTES.
1 AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING, DATED 2-7-22
2 EXISTING GCCS AS-BUILTS DATED 3-17-2022
3 BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-JTO BOUNDARIES WITH 3-6 SUBPHASES"
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
SHEET TITLE
SEM PENETRATION MAP
PROJECT TITLE
REVISION
DATE
DATE: 03-17-2022
SCALE: AS SHOWN
DRAWING NO.
3 of 3

Attachment C

Component Leak Monitoring Event Records



N

0 30 60

SCALE IN FEET

DATE: 9-29-22

TIME: 0700

TECHNICIAN: Jamie Ard

NOTES:
1. MONITOR ALL FLANGES AND ABOVE GROUND CONNECTIONS. WRITE THE HIGHEST READING IN THE BOX LABELED PPM. DRAW A CIRCLE AROUND THE LOCATIONS OF THE LEAK.

TETRA TECH

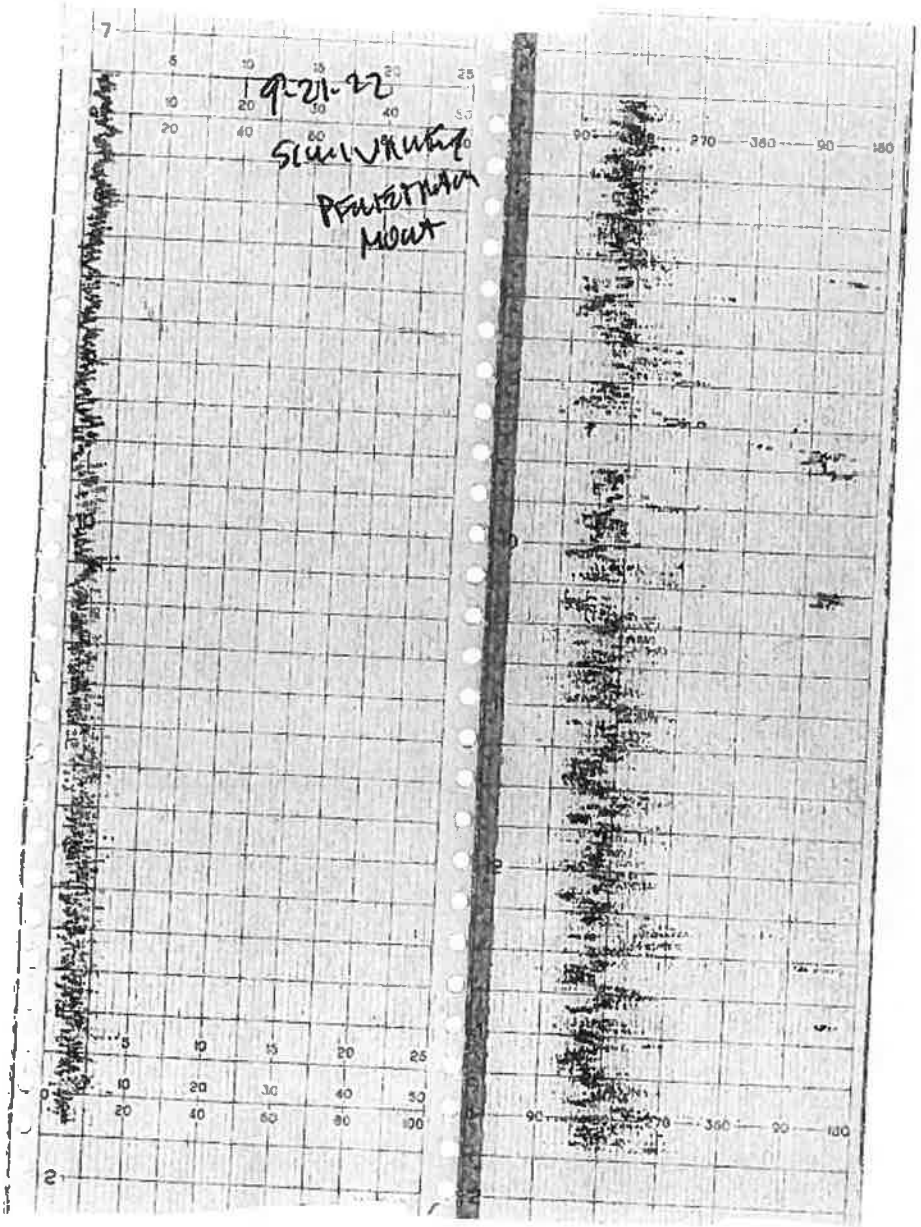
SIMI VALLEY LANDFILL
AND RECYCLING CENTER
SIMI VALLEY, CALIFORNIA
SEM RESULTS - FLARE STATION

FIGURE NO
1
PROJECT NO.
200026

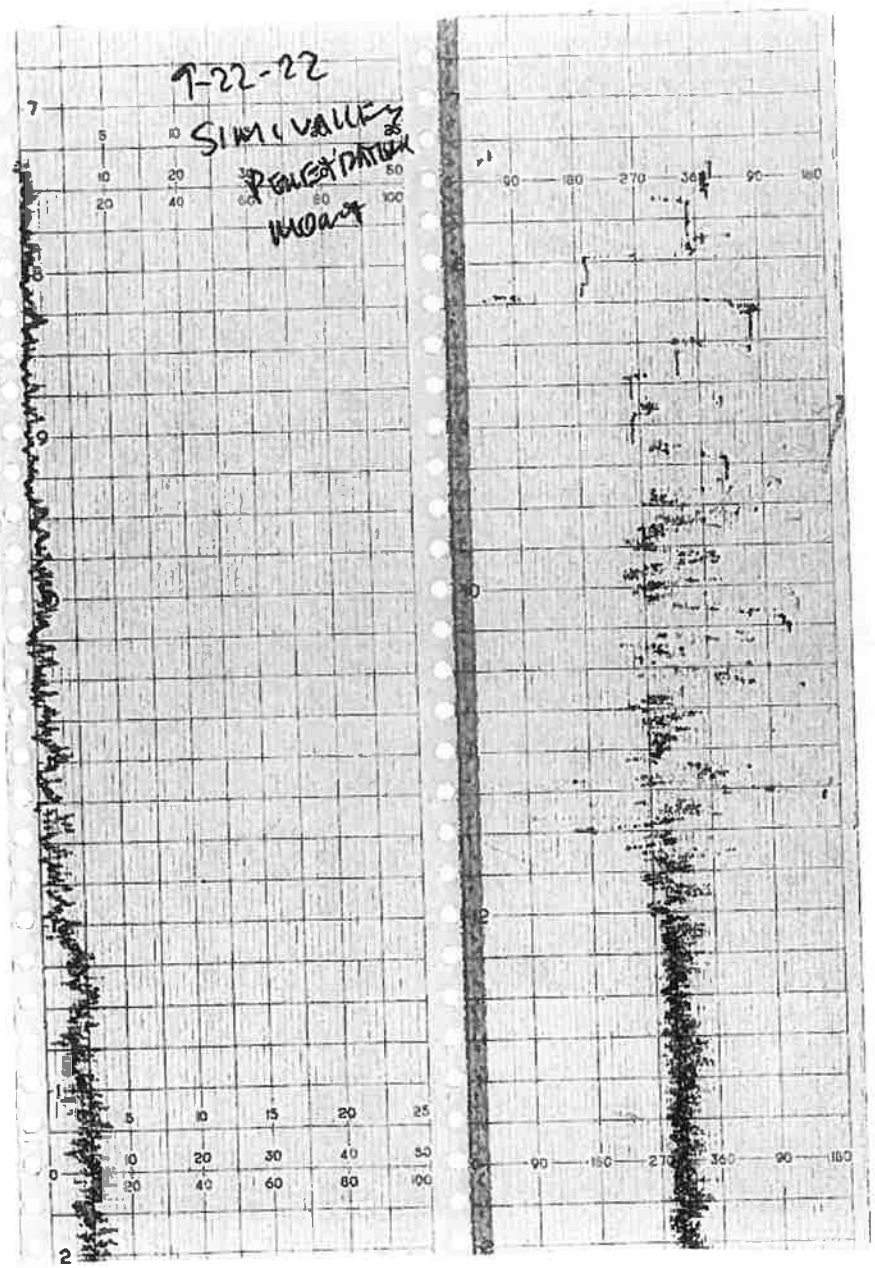
Attachment D

Weather Station Data

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



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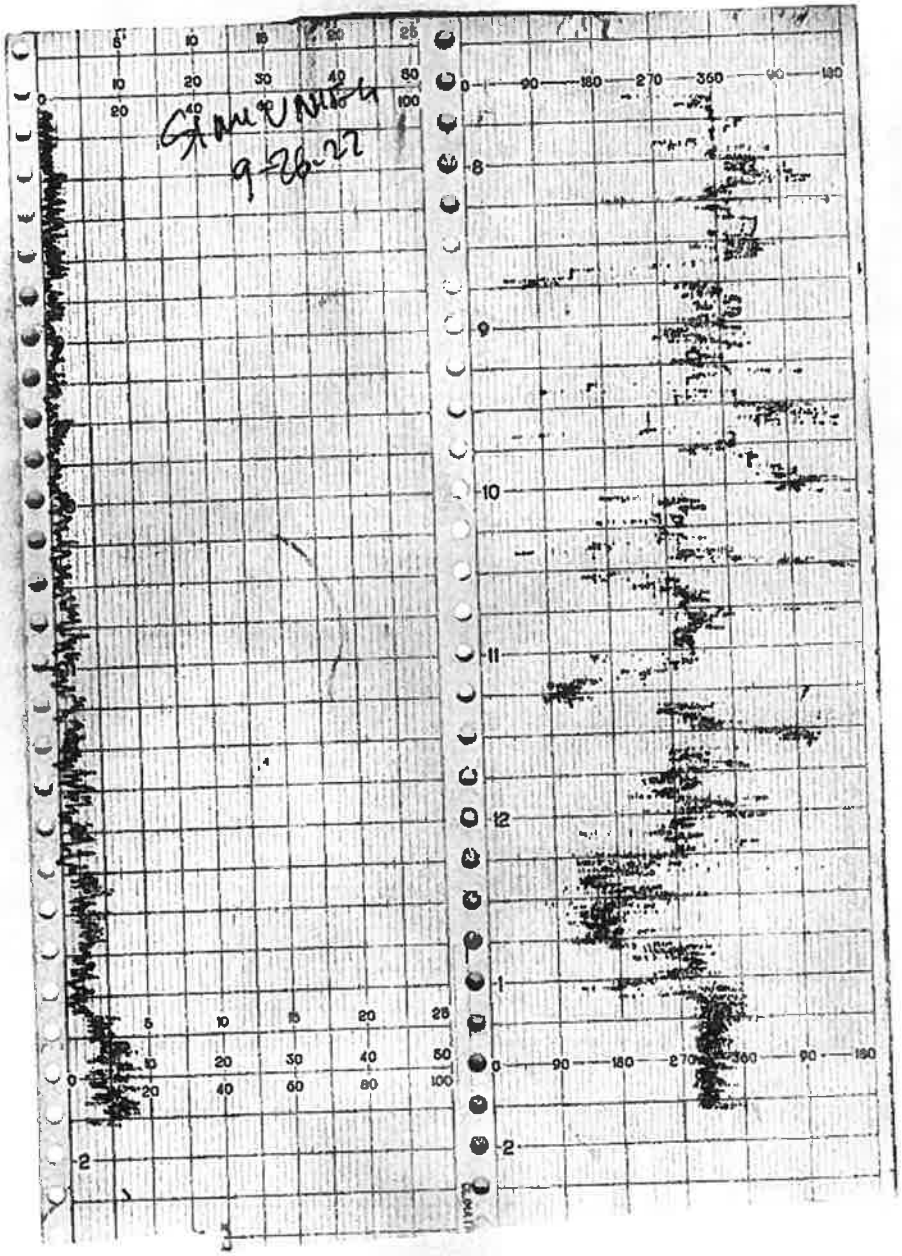
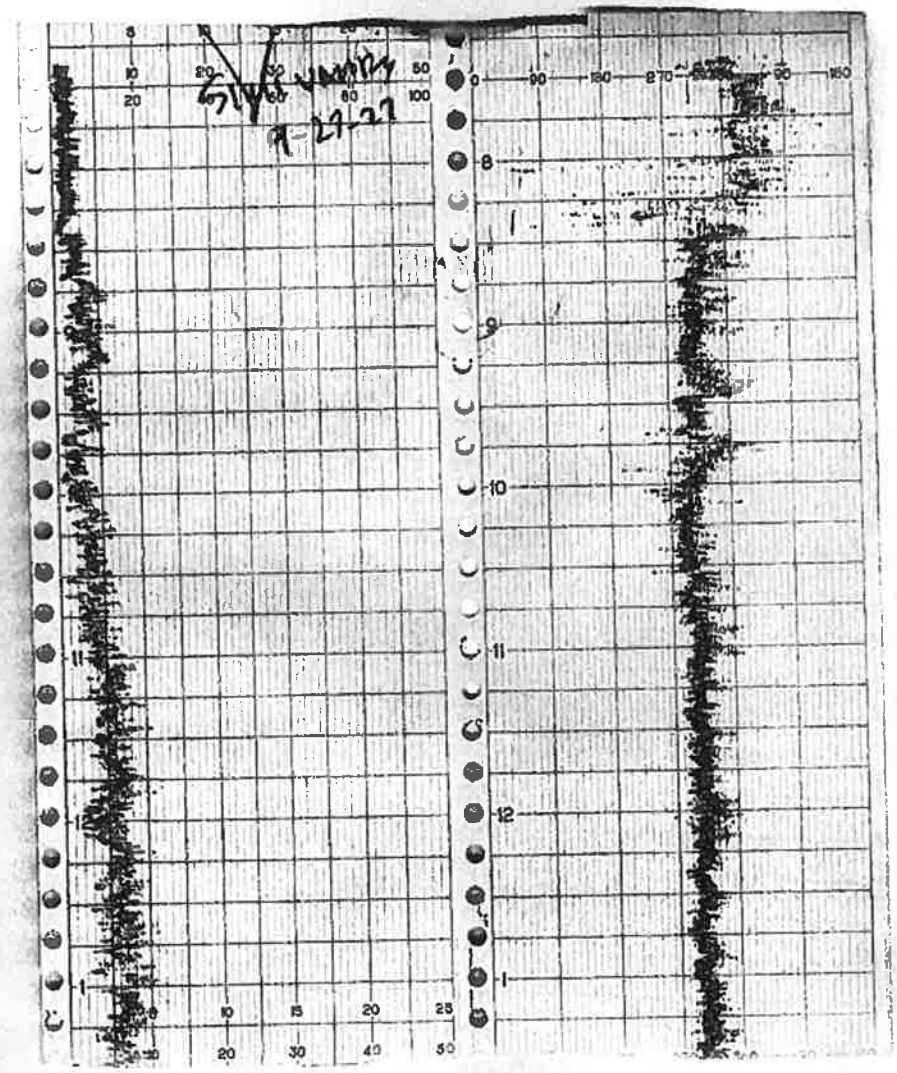
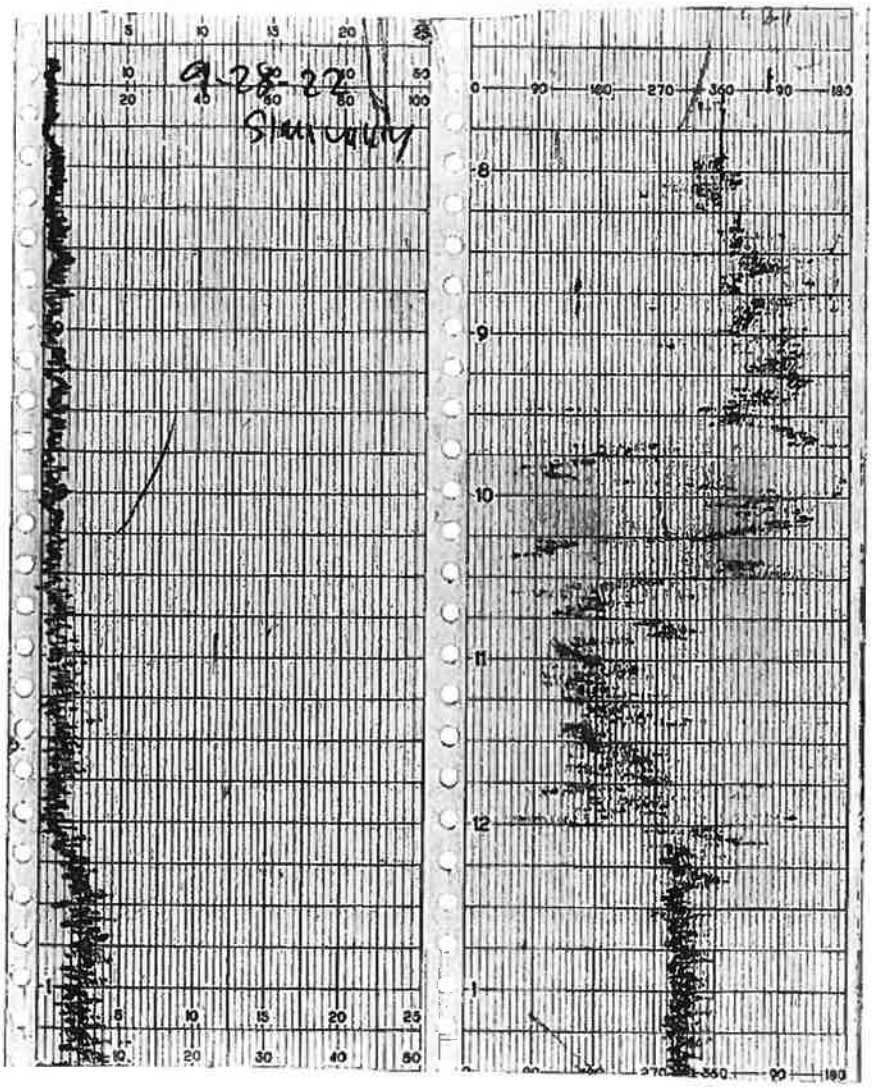


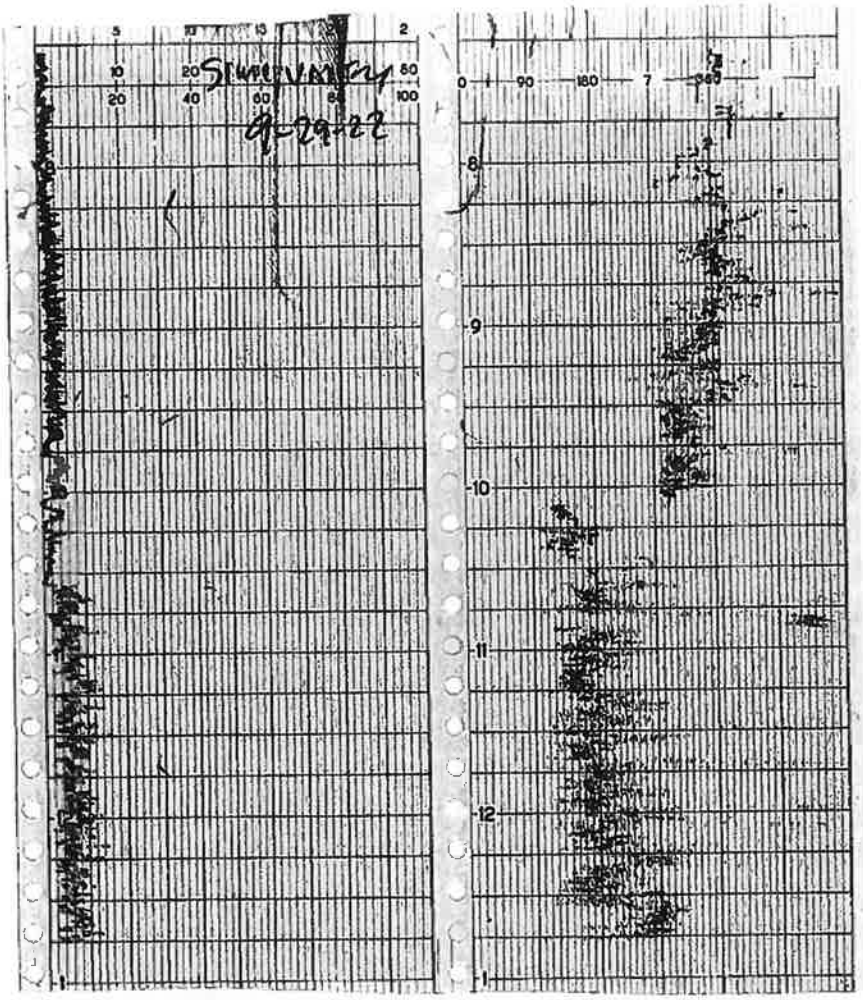
WIND SPEED & DIRECTION CHART ROLL



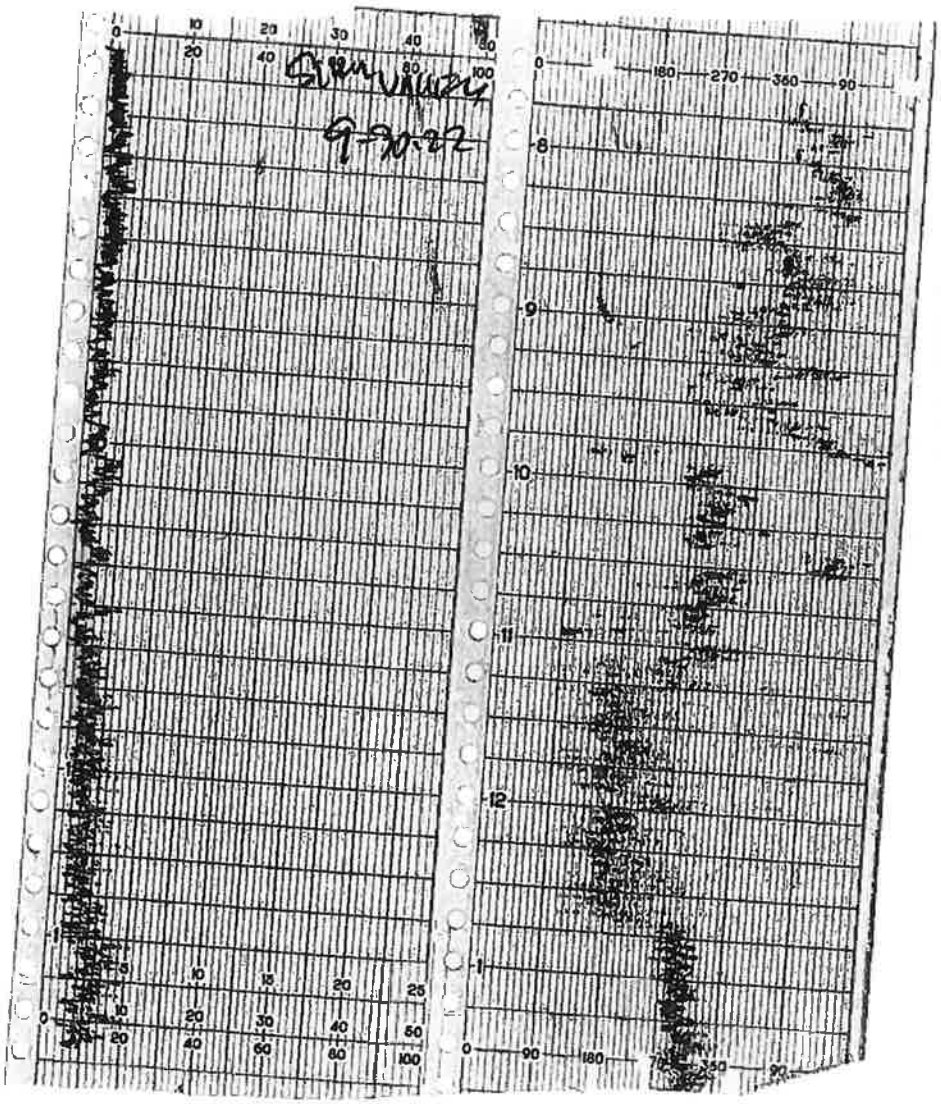
WIND SPEED & DIRECTION CHART ROLL



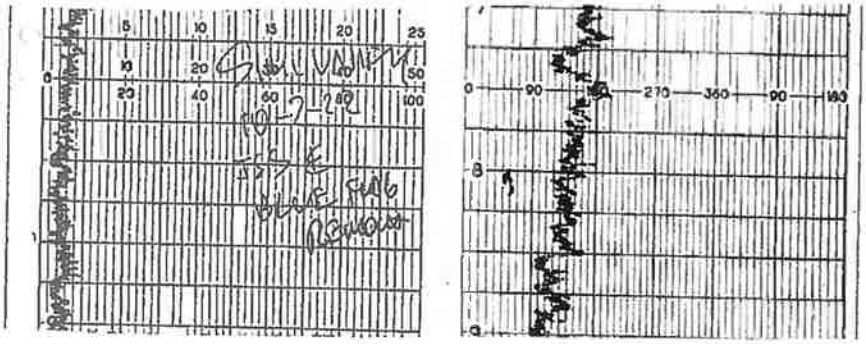
WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



RES Environmental Inc.

16-POINT WIND DIRECTION INDEX

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

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Attachment E

Calibration Records

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: THermo

MODEL: TVA1000 EQUIPMENT #: #1 SERIAL # 1632053.2

MONITORING DATE: 9-29-22 TIME: 0730

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	4 ppm	2 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	501 ppm	450 ppm	7
#2	502 ppm	450 ppm	12
#3	500 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			9 #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	150 ppm	501 ppm	500.50
#2	1,150 ppm	500 ppm	501.00
#3	0 ppm	502 ppm	502.00
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		#DIV/0! Must be less than 10%

Performed By: Damian Gadea Date/Time 9-29-22 / 0730

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Simi Valley INSTRUMENT MAKE THermo

MODEL TVA1000 EQUIPMENT # #2 7784545 SERIAL # _____

MONITORING DATE 9-29-22 TIME 0730

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	4 ppm	2 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	501 ppm	450 ppm	7
#2	502 ppm	450 ppm	12
#3	500 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			9 #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	1.50 ppm	501 ppm	500.50
#2	1.50 ppm	500 ppm	501.00
#3	0 ppm	500 ppm	500.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1 / 500 X 100 / 1			#DIV/0! Must be less than 10%

Performed By James Anderson Date/Time 9-29-22 / 0730

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: THermo

MODEL: TVA1000 EQUIPMENT #: #1 SERIAL #: 1632-0832

MONITORING DATE: 9-29-22 TIME: 0730

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	4 ppm	2 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	501 ppm	450 ppm	7
#2	502 ppm	450 ppm	12
#3	500 ppm	450 ppm	10
Calculate Response Time (1+2+3)/3			9 #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	150 ppm	501 ppm	500.50
#2	1.50 ppm	380 ppm	501.00
#3	0 ppm	502 ppm	502.00
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		#DIV/0! Must be less than 10%

Performed By: Damien Andre Date/Time: 9-29-22 / 0730

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Simi Valley INSTRUMENT MAKE Thermo

MODEL TVA1000 EQUIPMENT # #2 3784585 SERIAL #

MONITORING DATE: 9-29-22 TIME 0730

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	4 ppm	2 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	501 ppm	450 ppm	7
#2	502 ppm	450 ppm	12
#3	500 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			9 #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	1.50 ppm	501 ppm	500.50
#2	1.50 ppm	500 ppm	501.00
#3	0 ppm	502 ppm	501.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			#DIV/0! Must be less than 10%

Performed By James Anderson Date/Time 9-29-22 / 0730

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 1 SERIAL #: 1632083Z

MONITORING DATE: 10-7-22 TIME: 0830

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 503 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.3 ppm	3.4 ppm	2.8 ppm

Background Value = 2.8 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	504 ppm	450 ppm	6
#2	504 ppm	450 ppm	7
#3	503 ppm	450 ppm	7
Calculate Response Time (1+2+3) / 3			6.6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.78 ppm	504 ppm	4
#2	0.84 ppm	504 ppm	4
#3	0.80 ppm	503 ppm	3
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			0.7% #DIV/0! Must be less than 10%

Performed By: [signature] Date/Time: 10-7-22/0830

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 1 SERIAL #: 1632083R

MONITORING DATE: 10-7-22 TIME: 0730

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25.9 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.3 ppm	3.4 ppm	2.8 ppm

Background Value = 2.8 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	26.8 ppm	22.5 ppm	6
#2	25.9 ppm	22.5 ppm	6
#3	25.9 ppm	22.5 ppm	7
Calculate Response Time (1+2+3) / 3			6.3 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.73 ppm	26.8 ppm	1.8
#2	0.69 ppm	25.9 ppm	0.9
#3	0.76 ppm	25.9 ppm	0.9
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			0.1% #DIV/0! Must be less than 10%

Performed By: [signature] Date/Time: 10-7-22/0730

RJES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 30 SERIAL #: 1795 416

MONITORING DATE: 10-20-22 TIME: 0730

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 503 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.3 ppm	3.1 ppm	2.7 ppm

Background Value = 2.7 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	503 ppm	450 ppm	6
#2	503 ppm	450 ppm	8
#3	503 ppm	450 ppm	8
Calculate Response Time (1+2+3) / 3			7.3 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.99 ppm	503 ppm	3
#2	0.93 ppm	503 ppm	3
#3	0.89 ppm	503 ppm	3
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			0.6% #DIV/0! Must be less than 10%

Performed By: Michael ORV6 Date/Time: 10-20-22/0730

Datafield

Project :	RES_SimiValley landfill	**Date/Time :**	9/21/2022 4:17:34 AM
Model Number :	INSPECTRA	**Serial Number :**	1001221
Latitude :	34.0563955	**Longitude :**	-117.3073088
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Sep-21 04:18 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		**T90**	**Reading**	**T90**	**Reading**	**T90**	**Reading**	**Average Algebraic Difference**	**Calibration Precision**	**Calibration Precision < 10**	**Average Response Time**
	(ppm)	(sec)	(ppm)	(sec)	(ppm)	(sec)	(ppm)		(%)		(s)
ZERO	0										
Calibration Gas #1	500	8.2	461.4	6.3	462.5	6.2	461.6	38.2	7.6%	Yes	6.9

Gas Sequence ID :	0	**Date/Time :**	9/21/2022 4:17:34 AM
Gas Manufacturer :	Premier Safety	**Gas Lot Number :**	2-154-85
Gas Expiration Date :	6/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Datafield

Gas Sequence ID :	1	**Date/Time :**	9/21/2022 4:17:34 AM
Gas Manufacturer :	Premier Safety	**Gas Lot Number :**	2-108-80
Gas Expiration Date :	5/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

DataField

Project :	RES_SimiValley landfill	**Date/Time :**	9/21/2022 4:23:23 AM
Model Number :	INSPECTRA	**Serial Number :**	881221
Latitude :	34.0563403	**Longitude :**	-117.3073242
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Sep-21 04:25 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		T90	Reading	T90	Reading	T90	Reading	Average Algebraic Difference	Calibration Precision	Calibration Precision < 10	Average Response Time
	(ppm)	(sec)	(ppm)	(sec)	(ppm)	(sec)	(ppm)		(%)		(s)
ZERO	0										
Calibration Gas #1	500	5.6	474.3	5.7	475.7	5.7	474.9	25	5%	Yes	5.7

Datafield

Gas Sequence ID :	0	**Date/Time :**	9/21/2022 4:23:23 AM
Gas Manufacturer :	Premier Safety	**Gas Lot Number :**	2-154-85
Gas Expiration Date :	6/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Datafield

Gas Sequence ID :	1	**Date/Time :**	9/21/2022 4:23:23 AM
Gas Manufacturer :	Premier Safety	**Gas Lot Number :**	2-108-80
Gas Expiration Date :	5/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

DataField

Project :	RES_SimiValley landfill	**Date/Time :**	9/21/2022 4:33:53 AM
Model Number :	INSPECTRA	**Serial Number :**	1011221
Latitude :	34.0563836	**Longitude :**	-117.3073158
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Sep-21 04:35 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		**T90**	**Reading**	**T90**	**Reading**	**T90**	**Reading**	**Average Algebraic Difference**	**Calibration Precision**	**Calibration Precision < 10**	**Average Response Time**
	(ppm)	**(sec)**	**(ppm)**	**(sec)**	**(ppm)**	**(sec)**	**(ppm)**		**(%)**		**(s)**
ZERO	0										
Calibration Gas #1	500	5.7	472.7	5.6	474.1	5.6	475.4	25.9	5.2%	Yes	5.6

Gas Sequence ID :	0	**Date/Time :**	9/21/2022 4:33:53 AM
Gas Manufacturer :	Premier Safety	**Gas Lot Number :**	2-154-85
Gas Expiration Date :	6/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Datafield

Gas Sequence ID :	1	**Date/Time :**	9/21/2022 4:33:53 AM
Gas Manufacturer :	Premier Safety	**Gas Lot Number :**	2-108-80
Gas Expiration Date :	5/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Datafield

Project :	RES_SimiValley landfill	**Date/Time :**	9/21/2022 4:35:25 AM
Model Number :	INSPECTRA	**Serial Number :**	761121
Latitude :	34.0563888	**Longitude :**	-117.3073277
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Sep-21 04:38 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		T90	Reading	T90	Reading	T90	Reading	Average Algebraic Difference	Calibration Precision	Calibration Precision < 10	Average Response Time
	(ppm)	(sec)	(ppm)	(sec)	(ppm)	(sec)	(ppm)		(%)		(s)
ZERO	0										
Calibration Gas #1	500	0.6	461.9	5.4	478	5.4	477.9	27.4	5.5%	Yes	3.8

DataField

Gas Sequence ID :	0	**Date/Time :**	9/21/2022 4:35:25 AM
Gas Manufacturer :	Premier Saftey	**Gas Lot Number :**	2-154-85
Gas Expiration Date :	6/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Datafield

Gas Sequence ID :	1	**Date/Time :**	9/21/2022 4:35:25 AM
Gas Manufacturer :	Premier Safety	**Gas Lot Number :**	2-108-80
Gas Expiration Date :	5/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Project :	RES_SimiValley landfill	**Date/Time :**	9/21/2022 4:41:48 AM
Model Number :	INSPECTRA	**Serial Number :**	811121
Latitude :	34.0563875	**Longitude :**	-117.3073033
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Sep-21 04:42 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		T90	Reading	T90	Reading	T90	Reading	Average Algebraic Difference	Calibration Precision	Calibration Precision < 10	Average Response Time
	(ppm)	(sec)	(ppm)	(sec)	(ppm)	(sec)	(ppm)		(%)		(s)
ZERO	0										
Calibration Gas #1	500	4.7	477.2	5.7	477.4	5.7	477.8	22.5	4.5%	Yes	5.4

DataField

Gas Sequence ID :	0	**Date/Time :**	9/21/2022 4:41:48 AM
Gas Manufacturer :	Premier Safety	**Gas Lot Number :**	2-154-85
Gas Expiration Date :	6/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Datafield

Gas Sequence ID :	1	**Date/Time :**	9/21/2022 4:41:48 AM
Gas Manufacturer :	Premier Safety	**Gas Lot Number :**	2-108-80
Gas Expiration Date :	5/1/2025	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

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www.isgases.com

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CERTIFICATE OF ANALYSIS

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

Lot #	20-7421
Mfg. Date:	5/20/2020
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	NY02268

Method of Preparation:
Gravimetric/Pressure Transfilled

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

Analysis By: Tony Janquart
Title: Quality Assurance Manager
Certificate Date: 5/20/2020


Service
INC
Concentration (Mole%)
Accuracy
20.9% Oxygen
Bal. Nitrogen
@ 70°F and 1,000 PSIG
Lot#: 20-7421
P/N:01-100
103 L
Irvine, CA 92614
201-8150 Fax (949) 757-0363
103-01-100
103 L

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CERTIFICATE OF ANALYSIS

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

Lot # 17-6074

Mfg. Date: 10/16/2017

Parent Cylinder ID Number: 17161

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

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


Service
INC.
Accuracy
+/- 5%
Lot#: 17-6074
P/N:23-0025
103 L
103-23-0025
Nitrogen
103 L
Lot #
17-6074

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CERTIFICATE OF ANALYSIS

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

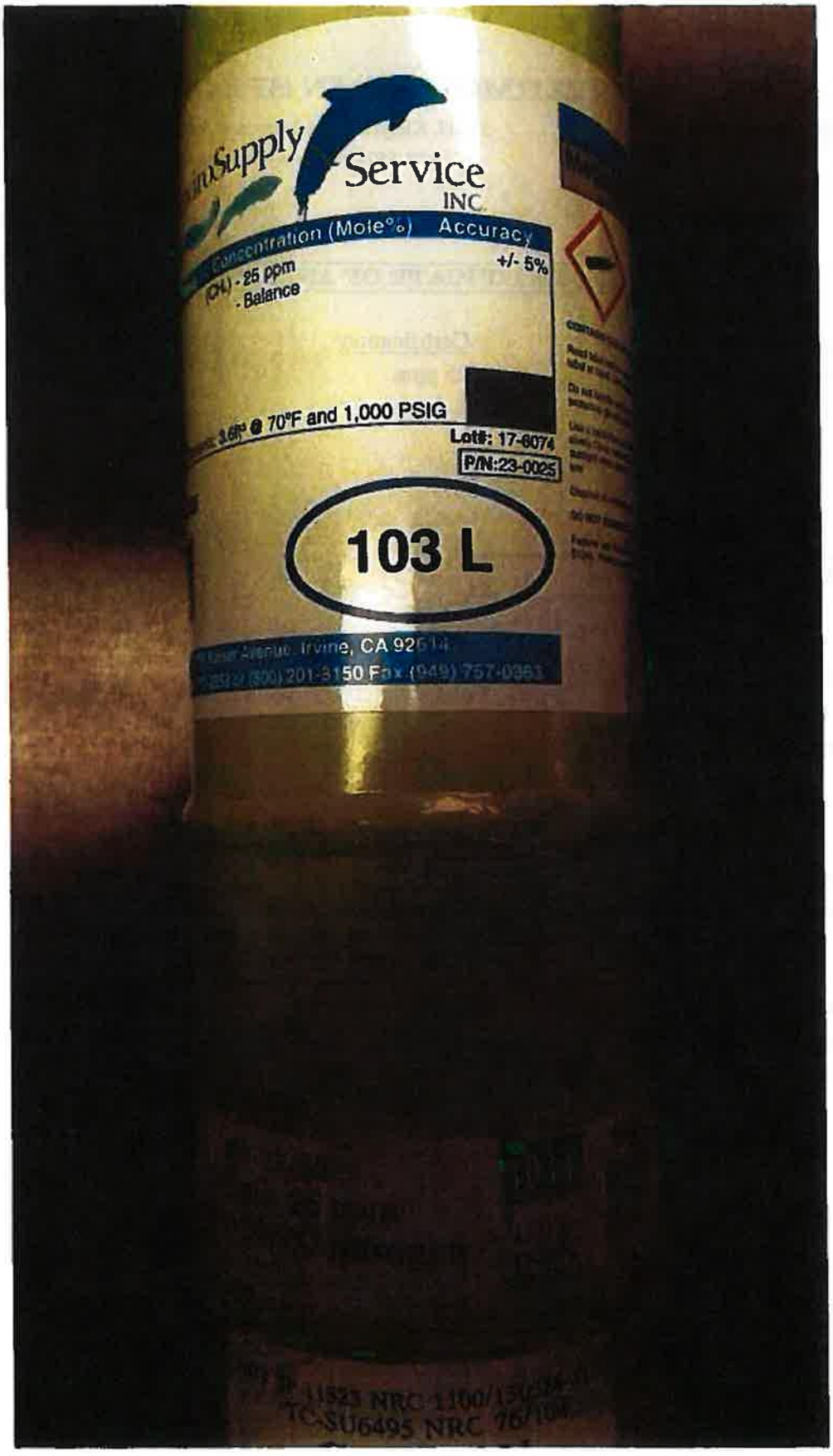
Lot # 17-6074

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

Method of Preparation:
Gravimetric/Pressure Transfilled

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

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


Supply
Service
INC.
Concentration (Mole%)
Accuracy
(CH4) - 25 ppm
- Balance
+/- 5%
@ 70°F and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Irvine, CA 92
(800) 201-3150 Fax (949) 757-0363
TC-SU6495 NRC

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

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

Method of Preparation

Gravimetric/Pressure Transfilled

Method of Analysis

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

Analysis By: Tony Janquart
Title: Quality Assurance Manager
Certificate Date: 7/10/2020


Service
INC.
Accuracy
+/- 2%
Lot#: 20-7497
P/N:23-0500
103 L
Methane
CONTAINS GAS UNDER
DO NOT REMOVE
103 L
COA
Lot #

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CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	500 ppm	± 2%
Air	Balance	

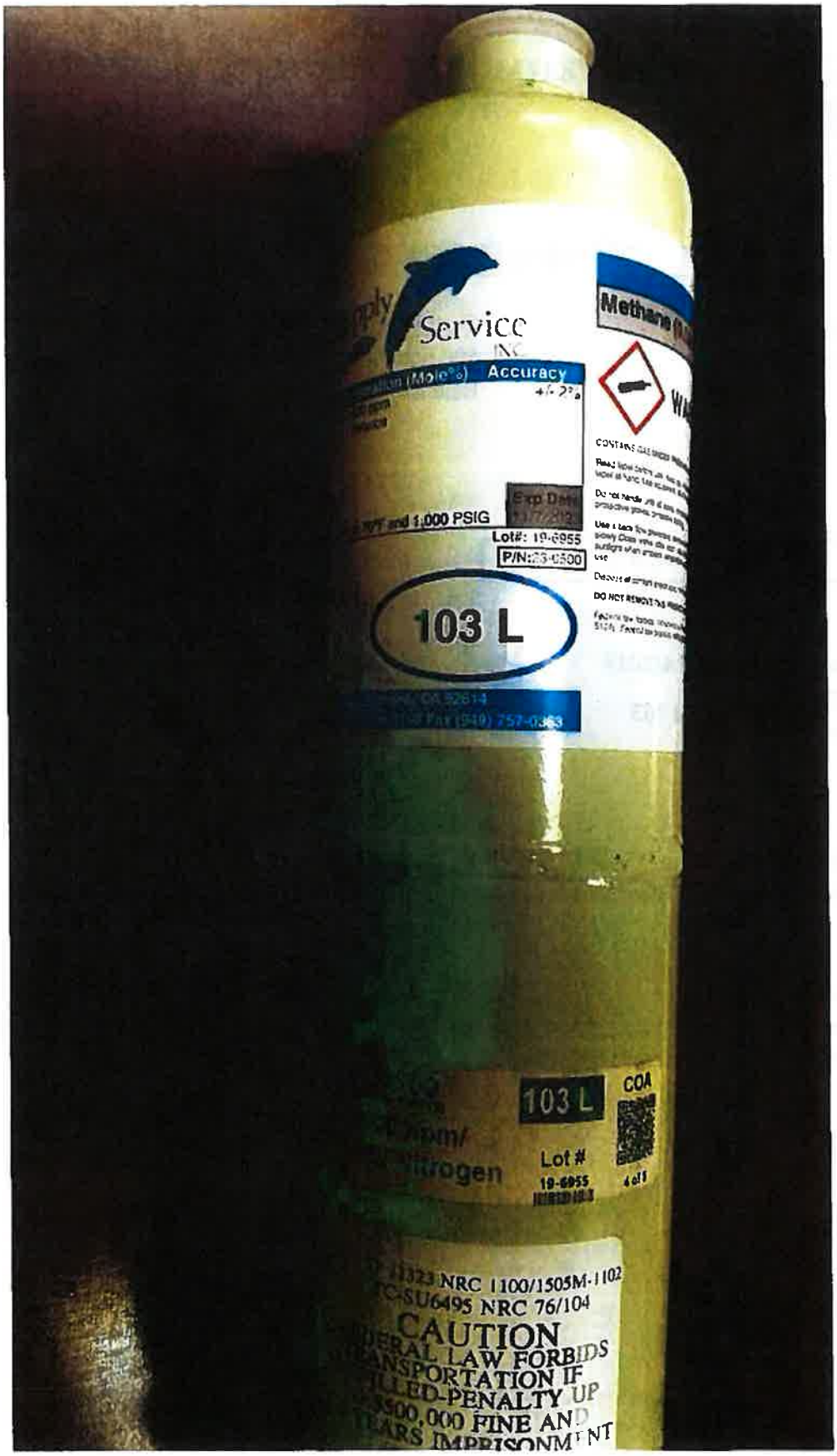
Lot # 19-6955

Mfg. Date: 7/24/2019
Parent Cylinder ID Number: 001763

Method of Preparation:
Gravimetric/Pressure Transfilled

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

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 7/24/2019


Service
Accuracy
Lot#: 19-6955
103 L
Methane
103 L
COA
Lot #
19-6955
CAUTION

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

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

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

Analysis By: Tony Janquart
Title: Quality Assurance Manager
Certificate Date: 12/18/2018


Service
Accuracy
- 500 ppm
: Balance
+/- 2%
@ 70°F and 1,000 PSIG
103 L
Irvine, CA 92614
Fax: (949) 757-0361
103 L
COA
Lot #
16-6841

Nor

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

46400 Continental Drivve
Chesterfield ,MI 48047

Cust Number 07152
Order Number 62891146
PO Number 04548169

Lot Number	9-326-80	Date on Manufacture	12/31/2019
Norlab Part#	J1971500PA	Expires	12/2022
Cylinder Size	103 Liter	Analytical Accuracy	+/- 2 %
Number of Cyl	1		

Customer Part# N/A

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

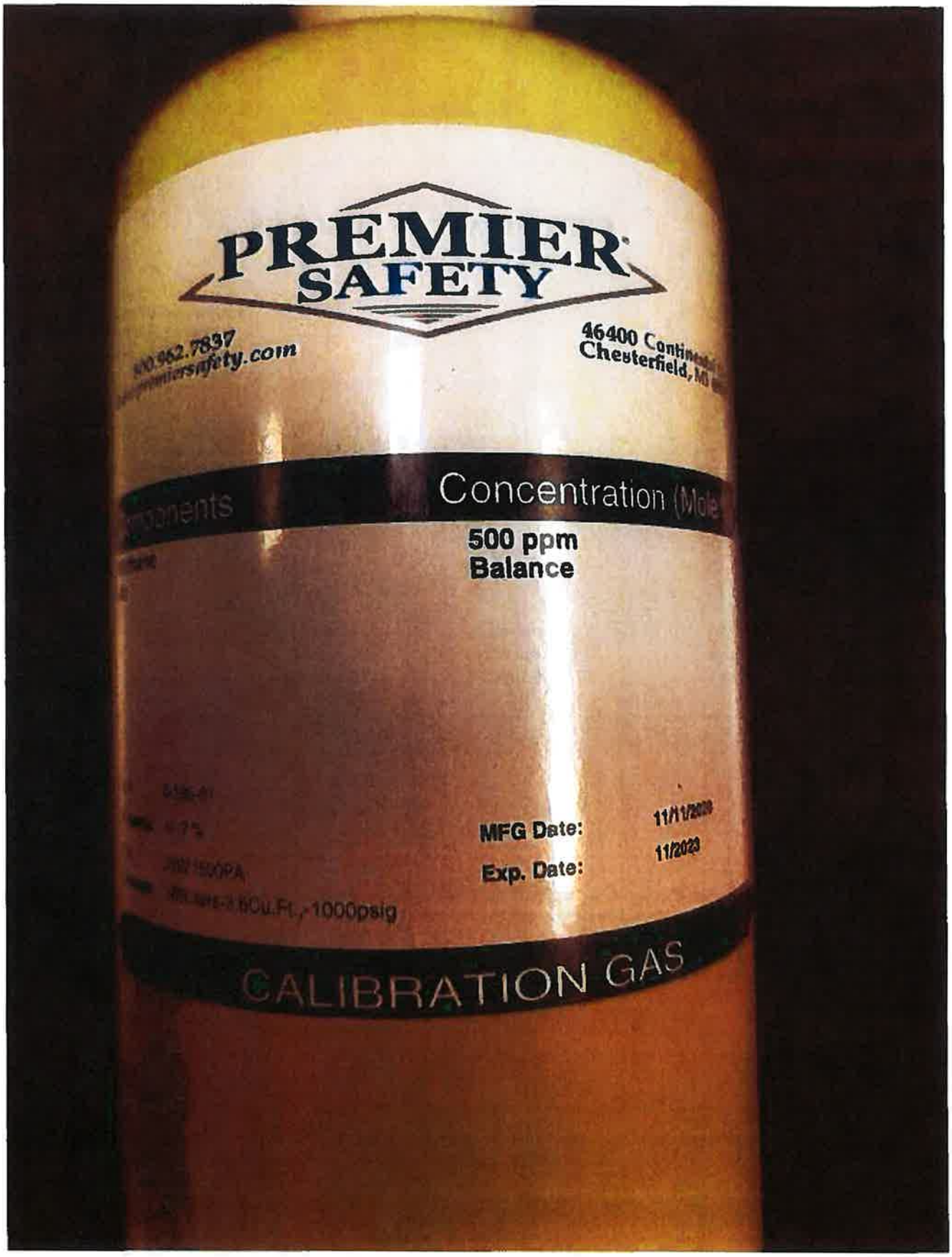
Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

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

NIST Traceable Numbers 20180519 and 20180224

Approved: _____ Date Signed: 12/19/2019

David Reed
Lab Technician


PREMIER
SAFETY
800.962.7837
46400 Continental
Chesterfield, MO
Concentration (Mole
500 ppm
Balance
MFG Date:
11/2023
Exp. Date:
1000psig
CALIBRATION GAS

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Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 69679439
PO Number 04906817

Lot Number	2-154-85	Date on Manufacture	6/13/2022
Norlab Part#	J1002	Expires	06/2025
Cylinder Size	103 Liter	Analytical Accuracy	Certified
Number of Cyl	1		

Customer Part# N/A

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

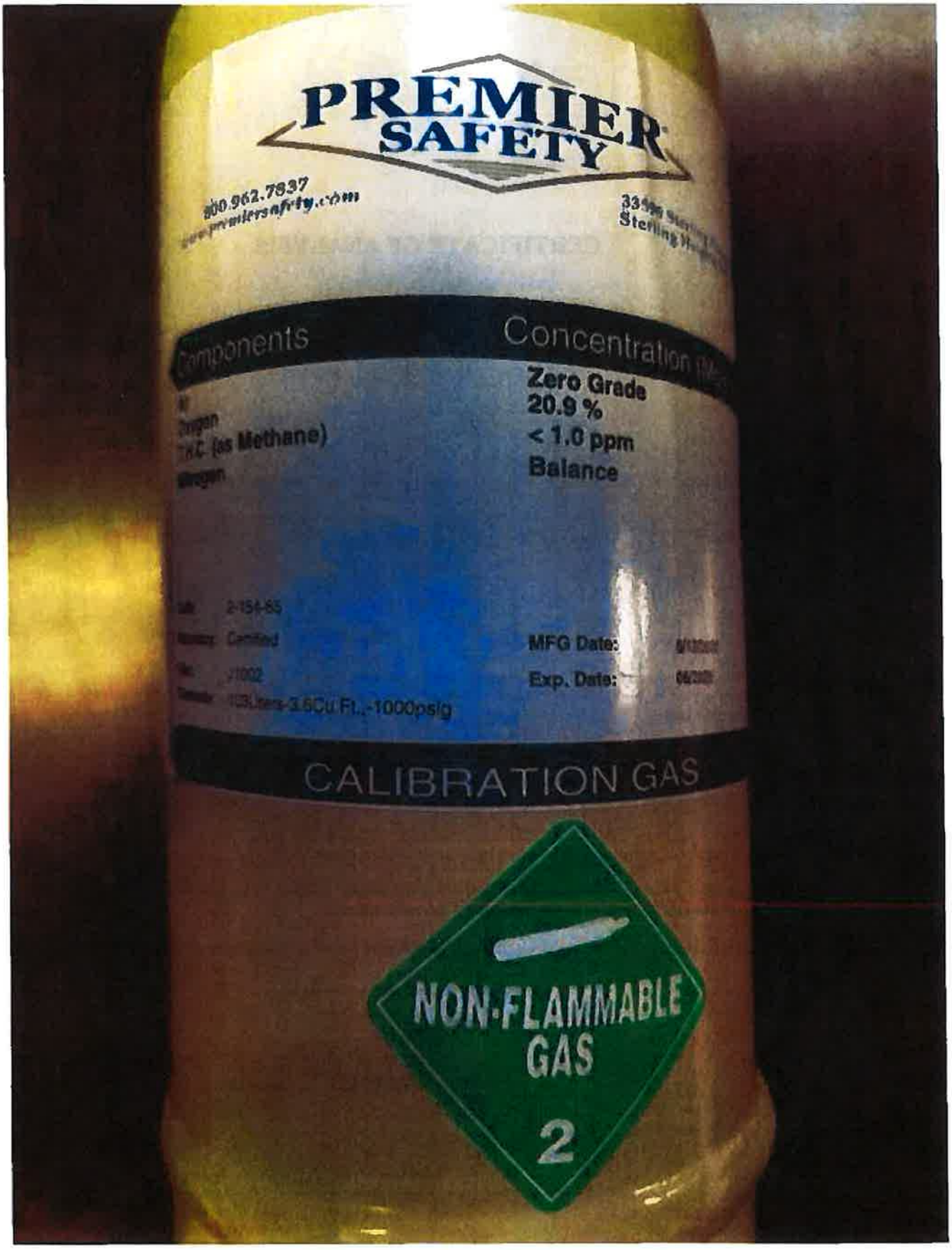
Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

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

NIST Traceable Numbers are available upon request.

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

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


PREMIER
SAFETY
800.962.7837
Components
Concentration
Zero Grade
20.9 %
< 1.0 ppm
Balance
MFG Date:
Exp. Date:
CALIBRATION GAS
NON-FLAMMABLE
GAS
2

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CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 69671309
PO Number 08361523

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

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

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

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

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

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

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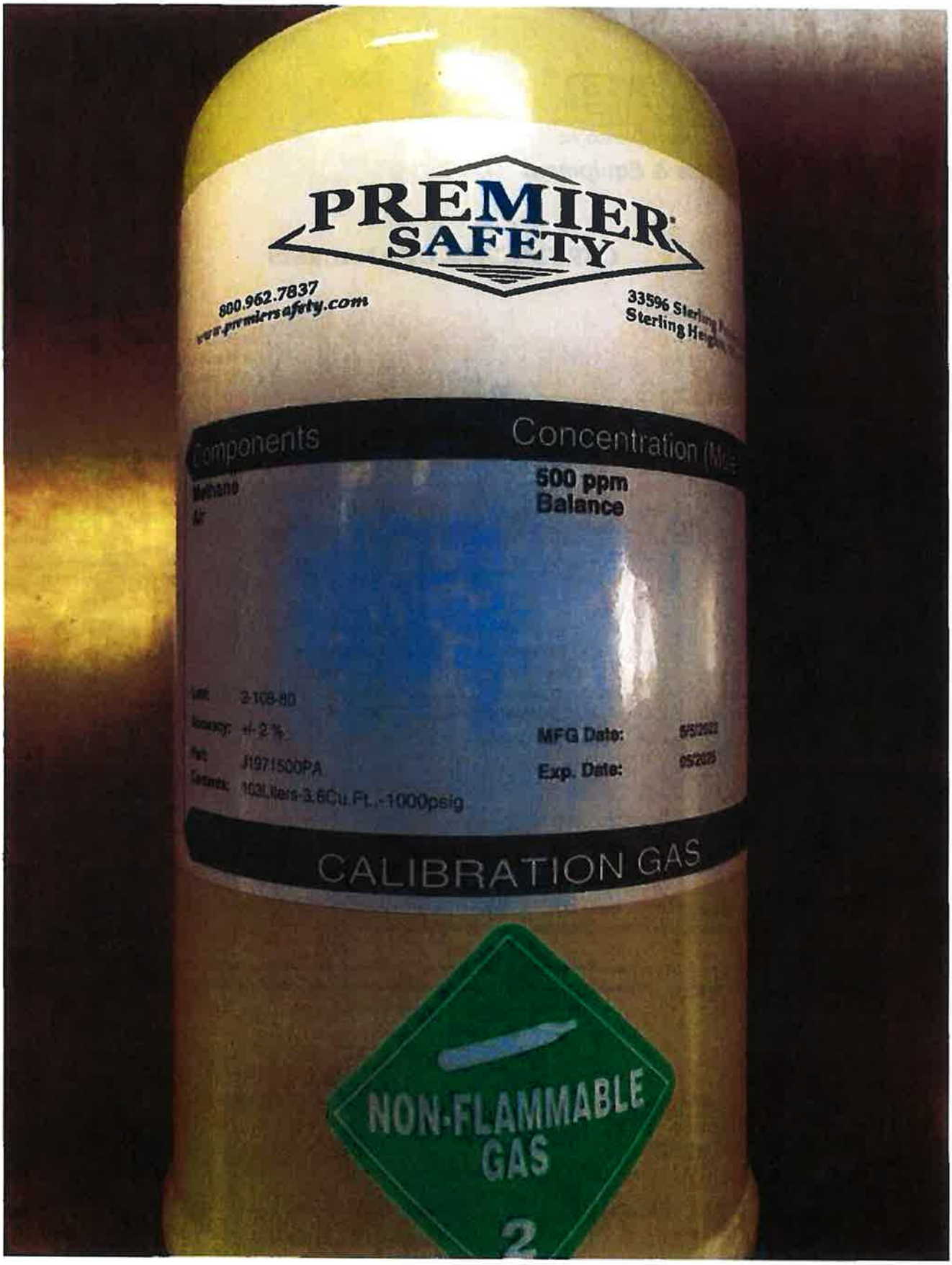
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672


PREMIER
SAFETY
800.962.7837
www.premiersafety.com
Components
Concentration
Methane
Air
500 ppm
Balance
MFG Date:
Exp. Date:
CALIBRATION GAS
NON-FLAMMABLE
GAS
2

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 1

SERIAL NUMBER: 16320832

TECHNICIAN: [signature] DATE: 7-9-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.49	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #2

SERIAL NUMBER: 7845545

TECHNICIAN: M Morris DATE: 7-9-27

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	501	+/- 125
10000	10000	10,016	+/- 2500
< 1	ZERO GAS	0.69	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES UNIT #3

SERIAL NUMBER: 15865884

TECHNICIAN: M Mathis DATE: 7-9-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	500	+/- 125
10000	10000	10,012	+/- 2500
< 1	ZERO GAS	0.68	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #4

SERIAL NUMBER: 16319830

TECHNICIAN: [illegible] DATE: 7-9-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,001	+/- 2500
< 1	ZERO GAS	0.64	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 5

SERIAL NUMBER: 4919480

TECHNICIAN: M Marks DATE: 1-9-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	499	+/- 125
10000	10000	10,006	+/- 2500
< 1	ZERO GAS	0.78	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100	/	+/- 25
500	500	/	+/- 125
< 1	ZERO GAS	/	< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #6

SERIAL NUMBER: 07207236 26

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

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,101	+/- 2500
< 1	ZERO GAS	0.71	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS.(ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #7

SERIAL NUMBER: 0720723627

TECHNICIAN: M Hanus DATE: 7-9-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	101	+/- 25
500	500	500	+/- 125
10000	10000	10,003	+/- 2500
< 1	ZERO GAS	0.69	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #9

SERIAL NUMBER: 0532/13801

TECHNICIAN: M Nobles DATE: 7-9-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.69	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM JM

Date: 9-10-22 **Time:** 0000

Model # TVA 1000

Serial # #1 163208 32

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.7 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-9-22	Time required to attain 90% of Cal Gas ppm: 1. 6 2. 6 3. 6
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 6.0
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to Celtyl gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 9-10-22 **Time:** 0612

Model # TVA 1000

Serial # #2 7784545

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.1 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-9-22	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 7 / 3. 7
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 6.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 9-10-22 **Time:** 0630

Model # TVA 1000

Serial # #3 15865 864

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.3 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-9-22	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 7 2. 6 3. 6 Average 6.3 Equal to or less than 30 seconds? (Y) N Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: [illegible]

Date: 9-10-27 **Time:** 0645

Model # TVA 1000

Serial # #4 16319830

INSTRUMENT INTEGRITY CHECKLIST	
Battery test	(Pass) / Fail
Reading following ignition	2.4 ppm
Leak test	(Pass) / Fail / NA
Clean system check (check valve chatter)	(Pass) / Fail / NA
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA
Date of last factory calibration	7-9-22
Factory calibration record w/instrument within 3 months	(Pass) / Fail

INSTRUMENT CALIBRATION

CALIBRATION CHECK

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

RESPONSE TIME

Calibration Gas, ppm 500

90% of Calibration Gas, ppm 450

Time required to attain 90% of Cal Gas ppm

1. 6
2. 6
3. 7

Average 6.5

Equal to or less than 30 seconds? (Y) N

Instrument calibrated to CH4 gas.

Comments: _____

485

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM JM

Date: 9-10-22 **Time:** 0700

Model # TVA 1000

Serial # #5 4919480

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.0 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-9-22	Time required to attain 90% of Cal Gas ppm: 1. 7 / 2. 7 / 3. 7
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 7.0
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 9-10-22 **Time:** 0715

Model # TVA 1000

Serial # #6 0720723626

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	1.9 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-9-22	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 7 2. 6 3. 6 Average 6.3 Equal to or less than 30 seconds? (Y) N Instrument calibrated to CH4 gas.

Comments: _____

465

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 9-10-22 **Time:** 0730

Model # TVA 1000

Serial # #1 0720723 627

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
		CALIBRATION CHECK		
		Calibration Gas (ppm)	Actual (ppm)	% Accuracy
		500	500	100
Battery test	(Pass) / Fail	RESPONSE TIME		
Reading following ignition	2.3 ppm	Calibration Gas, ppm	500	
Leak test	(Pass) / Fail / NA	90% of Calibration Gas, ppm	450	
Clean system check (check valve chatter)	(Pass) / Fail / NA	Time required to attain 90% of Cal Gas ppm		
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	1.	6	
		2.	6	
Date of last factory calibration	7-9-22	3.	6	
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average	6.0	
		Equal to or less than 30 seconds?	(Y)	N
		Instrument calibrated to	CH4	gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 9-10-22 **Time:** 0745

Model # TVA 1000

Serial # #9 0532-113801

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	1.9 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-9-22	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 6 2. 5 3. 6 Average 5.6 Equal to or less than 30 seconds? (Y) N Instrument calibrated to Cuby gas.

Comments: _____

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WASTE MANAGEMENT

8491 Fruitridge Road
Sacramento, CA 95826
(510) 714-6098

January 27, 2023

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

Fourth Quarter 2022 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 2022 Integrated and Instantaneous Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by Roberts Environmental Services, LLC. (RES). Re-monitoring of 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.
    - 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 2022.

Instantaneous Surface Emission Monitoring Results

The Instantaneous surface monitoring was performed on November 28, 29 & 30, 2022 and December 1, 2022, 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 eight (8) exceedances of 500 ppmv as methane detected during the initial monitoring events conducted on November 28, 2022. 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 December 6, 2022. No exceedances were observed during the second ten-day re-monitoring event.

Thirty-Day Re-Monitoring Results

RES personnel performed the thirty-day monitoring event on January 7, 2023 (pushed back due to rain). No exceedances were observed during the thirty-day re-monitoring event.

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

There were eleven (11) readings between 200 ppmv and 499 ppmv, measured as methane detected during the initial monitoring event on November 28, 2022 and December 1 & 7, 2022, respectively. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppmv but below 500 ppmv are required to be recorded. As a best management practice, if these readings occur, SVLRC voluntarily addresses these locations by remediating and re-monitoring all those within this range, during the 10-day re-checks. Therefore, SVLRC and RES personnel performed ten-day re-checks on December 6, 7 and 16, 2022, respectively, and the eleven (11) readings were below 200 ppmv. The goal of this is effort is to reduce any future exceedances to improve and reduce overall odors/emissions. Results, if applicable, are summarized in Attachment A.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on December 6 & 7, 2022, 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 was one (1) grid with an exceedance above 25 ppmv as methane detected during the initial monitoring event conducted on December 7, 2022. SVLRC personnel remediated the locations, and the following re-monitoring was conducted as described below.

Ten-Day Re-Monitoring Results

RES personnel performed the ten-day re-monitoring event on December 16, 2022. No exceedances were observed during the ten-day re-monitoring event.

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 December 6, 2022. There were zero (0) locations with a component leak detection of greater than 500 ppmv. 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 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 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: LEIGH WADE, MICHAEL ESTRADA, _____
TOMAS TORRES, _____, _____
GEORGE STRAUP, _____, Cal. Gas Exp. Date: 7-10-24

Date: 11-29-22 Instrument Used: INSPECTAR Grid Spacing: 25'

Temperature: 51 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
127	LV	1130	1135	31.40	5	6	4	
128	LV	1135	1140	5.00	6	9	4	
129	LV	1140	1145	11.90	5	7	2	
100	ME	0802	0817	31.20	2	3	13	
101	ME	0819	0834	151.40	3	4	15	
102	ME	0835	0851	100.90	3	5	14	
103	ME	0852	0907	58.40	3	5	14	
104	ME	0910	0925	30.30	3	5	14	
105	ME	0927	0942	31.70	3	6	14	
106	ME	0945	1000	29.30	2	3	2	
107	ME	1003	1018	147.00	2	4	2	
108	ME	1021	1036	4.00	3	5	2	
109	ME	1037	1054	5.40	1	2	10	
80	GS	0745	0800	6.60	2	3	14	
81	GS	0801	0815	6.80	2	3	13	
82	GS	0815	0828	7.50	3	4	14	
83	GS	0828	0840	7.70	3	5	15	
84	GS	0840	0850	7.20	3	5	14	
85	GS	0850	0909	7.50	3	5	14	
86	GS	0909	0921	7.80	3	5	14	
87	GS	0921	0930	7.30	3	6	14	
88	GS	0930	0942	7.60	3	6	14	
89	GS	0942	0955	7.80	2	3	2	
90	GS	0955	1007	7.90	2	3	2	
91	GS	1007	1019	7.70	2	4	2	
92	GS	1019	1029	7.60	3	5	2	
111	GS	1048	1101	7.50	1	2	10	
112	GS	1101	1114	7.50	3	5	2	
110	GS	1115	1132	7.70	5	6	4	
120	GS	1138	1147	7.50	5	7	2	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: tomas torres

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

Date: 11-29-22 Instrument Used: Impact Grid Spacing: 25'

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
113	TT	0748	0803	69.70	2	3	14	
114	TT	0808	0828	48.60	3	4	14	
115	TT	0833	0852	31.60	3	5	14	
121	TT	0927	0943	11.70	3	6	14	
122	TT	1001	1016	11.00	2	4	2	
123	TT	1021	1035	8.40	3	5	2	
116	TT	1053	1108	49.30	1	2	10	
117	TT	1113	1128	66.00	5	8	6	
118	TT	1129	1144	58.40	5	7	2	
119	TT	1145	1156	20.80	6	10	6	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE, GEORGE STROUP, MICHAEL ESTRADA, THOMAS TORRES, STEVEN VASADI

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

Date: 11-30-22 Instrument Used: INSPECTA Grid Spacing: 25'

Temperature: 48 Precip: 0 Upwind BG: _____ Downwind BG: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
S4	SV	0755	0810	15.00	3	4	16	
S3	SV	0810	0825	5.20	4	6	2	
S2	SV	0825	0840	11.90	4	6	2	
S1	SV	0850	0905	8.10	5	8	1	
S0	SV	0915	0920	37.30	4	7	2	
49	SV	0920	0935	2.87	5	6	16	
57	SV	0935	0950	32.30	4	6	2	
56	SV	0955	1010	8.30	7	10	16	
55	SV	1010	1025	18.30	5	7	2	
142	SV	1043	1058	7.10	7	10	2	
143	SV	1058	1113	25.50	5	8	2	
144	SV	1113	1128	21.40	5	6	2	
145	SV	1128	1143	137.30	2	5	2	
64	ME	0752	0807	19.10	3	4	16	
65	ME	0810	0825	55.30	4	6	2	
66	ME	0830	0845	9.70	4	6	2	
67	ME	0848	0903	7.90	5	6	1	
68	ME	0905	0920	16.60	4	7	2	
69	ME	0930	0945	52.40	4	6	16	
70	ME	0953	1004	7.80	7	10	16	
71	ME	1012	1021	2.70	5	7	2	
72	ME	1022	1030	2.90	5	7	2	
73	ME	1031	1042	2.80	6	10	2	
74	ME	1044	1059	3.50	3	7	2	
75	ME	1107	1122	6.40	5	8	2	
76	ME	1127	1142	7.50	2	5	2	
93	GS	0749	0801	59.50	5	7	16	
63	GS	0806	0818	29.10	3	5	16	
62	GS	0828	0845	13.10	4	6	2	
94	GS	0845	0859	21.10	5	8	1	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHANN K, THOMAS TORRES, _____
GEORGE STROUP, STEVEN VASADI, _____
MICHAEL ESTRADA, _____ Cal. Gas Exp. Date: 7-10-24

Date: 11-30-22 Instrument Used: Inspecting Grid Spacing: 25'

Temperature: 68 Precip: 0 Upwind BG: _____ Downwind BG: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
95	GS	0855	0917	9.40	4	7	2	
61	GS	0923	0938	6.70	5	8	16	
60	GS	0938	0954	8.90	4	6	2	
96	GS	0955	1010	20.40	7	10	16	
97	GS	1010	1026	27.80	5	7	2	
59	GS	1032	1048	116.60	6	10	2	
58	GS	1048	1100	54.70	3	7	2	
98	GS	1109	1125	16.60	5	6	2	
99	GS	1130	1145	16.30	2	5	2	
1	TT	0750	0810	8.50	3	4	16	
2	TT	0810	0825	3.70	4	6	2	
3	TT	0830	0845	7.80	4	6	2	
4	TT	0845	0900	7.80	5	8	1	
5	TT	0905	0920	2.60	4	7	2	
6	TT	0920	0935	2.00	5	8	16	
7	TT	0940	0955	2.70	4	6	2	
8	TT	1000	1015	2.60	7	10	16	
9	TT	1015	1030	2.40	5	7	2	
10	TT	1040	1055	9.30	7	10	2	
11	TT	1100	1120	5.50	5	6	2	
12	TT	1130	1145	9.70	2	5	2	
13	TT	1150	1208	9.60	6	10	2	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LOUIS JONES, GEORGE STROUP, MIGUEL ESTACIO, TOMAS TORRES, STEVEN VARGAS

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

Date: 12-1-22 Instrument Used: INSPECTA9 Grid Spacing: 25'

Temperature: 48 Precip: 0 Upwind BG: ____ Downwind BG: ____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
41	ME	0808	0823	11.40	5	7	1	
40	ME	0825	0840	17.20	3	5	1	
39	ME	0842	0848	6.50	3	5	1	
17	ME	0849	0854	4.00	3	5	2	
16	ME	0855	0909	9.80	5	7	2	
15	ME	0911	0925	19.10	5	7	2	
14	ME	0927	0942	11.30	5	7	2	
31	SV	0745	0800	10.50	2	3	2	
30	SV	0800	0815	2.80	6	6	1	
27	SV	0815	0830	13.70	5	7	1	
28	SV	0830	0845	4.30	3	5	1	
29	SV	0845	0900	2.90	4	5	2	
77	SV	0900	0915	9.90	4	6	2	
78	SV	0915	0930	22.20	5	7	2	
79	SV	0930	0945	14.80	5	7	2	
189	SV	1010	1025	151.60	4	5	2	
188	SV	1025	1040	96.70	3	5	2	
187	SV	1040	1055	38.30	5	7	3	
186	SV	1055	1118	117.60	1	3	2	
48	GS	0818	0827	4.40	5	7	1	
47	GS	0830	0845	8.100	5	7	1	
46	GS	0845	0900	7.60	4	5	2	
45	GS	0913	0925	5.00	5	7	2	
44	GS	0930	0945	5.10	5	7	2	
43	GS	1000	1015	10.20	4	6	2	
42	GS	1015	1030	10.20	3	4	2	
130	TT	0805	0815	62.40	6	8	1	
131	TT	0815	0823	91.00	5	7	1	
132	TT	0826	0833	55.80	5	7	1	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel Tomas Torres

Cal. Gas Exp. Date 7-10-24

Date 12-1-22 Instrument Used: Inspectra Grid Spacing 25'

Temperature 57 Precip: 0 Upwind BG: _____ Downwind BG: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
133	TT	0836	0841	100.30	3	5	1	
134	TT	0843	0850	142.20	3	5	2	
135	TT	0852	0905	66.60	5	7	2	
136	TT	0908	0920	203.70	5	7	2	
137	TT	0922	0940	93.20	5	7	2	
138	TT	0942	0947	93.60	5	7	2	
139	TT	0950	1005	21.80	4	5	2	
140	TT	1010	1025	26.20	4	6	2	
141	TT	1025	1035	17.40	3	4	2	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: ACTIVE LIST _____ _____ _____

_____ _____ _____ Cal. Gas Exp. Date: _____

Date: 12-1-22 Instrument Used: _____ Grid Spacing: _____

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
18								HEAVY EQUIPMENT
19								FINAL CAP WORK
20								DOZERS
21								
22								
23								
24								
25								
26								
27								
38								
37								
36								
35								
34								
33								
32								
150								ACTIVE TRASH
149								
148								
147								
146								
157								
158								
164								
165								
166								
163								
167								
162								

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: ACTIVE LIST _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 12-1-22 Instrument Used: _____ Grid Spacing: _____

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
160								ACTIVE TRASH
159								
161								
185								
184								
183								
182								
181								
180								
179								
178								
177								
176								
175								
174								
173								
172								
171								
170								
169								
168								
190								
191								
192								
193								
194								
195								
196								
197								
198								↓

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: ACTIVE LIST _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 12-1-22 Instrument Used: _____ Grid Spacing: _____

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
199								ACTIVE TRASH
200								↓
201								
202								
203								
124								SCRAPER
125								TRAFFIC
126								↓
156								
155								
154								
153								
152								
151								↓

Attach Calibration Sheet
Attach site map showing grid ID

Waste Management Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs

Quarter: 4TH QTR 2022

Initial Monitoring Performed By: L. WADE

Follow-up Monitoring Performed By: L. WADE

Landfill Name: SIMI VALLEY LANDFILL

Initial Monitoring Event				Corrective Action within 5 Days		1st 10-Day Follow-Up			1st 30-Day Follow-Up			Comments
Grid #	Flag #	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exceed. <500 ppm	Exceed. >500 ppm	Monitoring Date	No Exceed. <500 ppm	Exceed. >500 ppm	
73	Y1	11-28-22	17,012.5			12-6-22	2,73		1-7-23	4		SIMW1779
85	Y2	↓	9,534.2			↓	14.59		↓	12		SIMW1780C
132	Y3		2038.7				12,13			10		SIMW2073
139	Y4		1,542.5				6.29			6		SIMW1816
57	Y5		1,029.6				9.58			3		SIMW0003
153	Y6		812.2				95.11			20		SIMW2090
155	Y7		744.7				113.37			10		SIMW2091
39	Y8	↓	556.4			↓	8.72		↓	6		SIMW2078

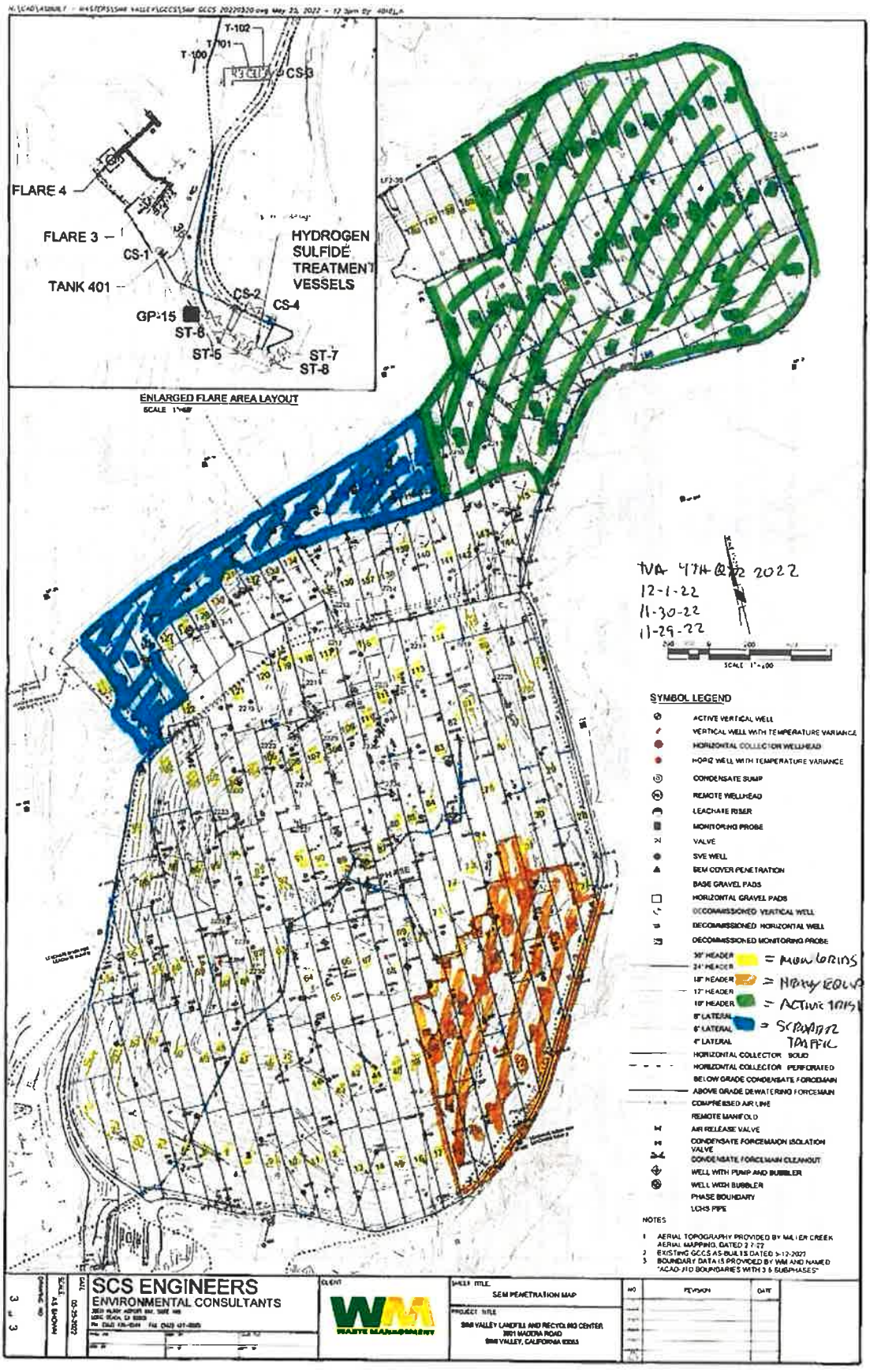
PUSHED OFF DUE TO RAIN

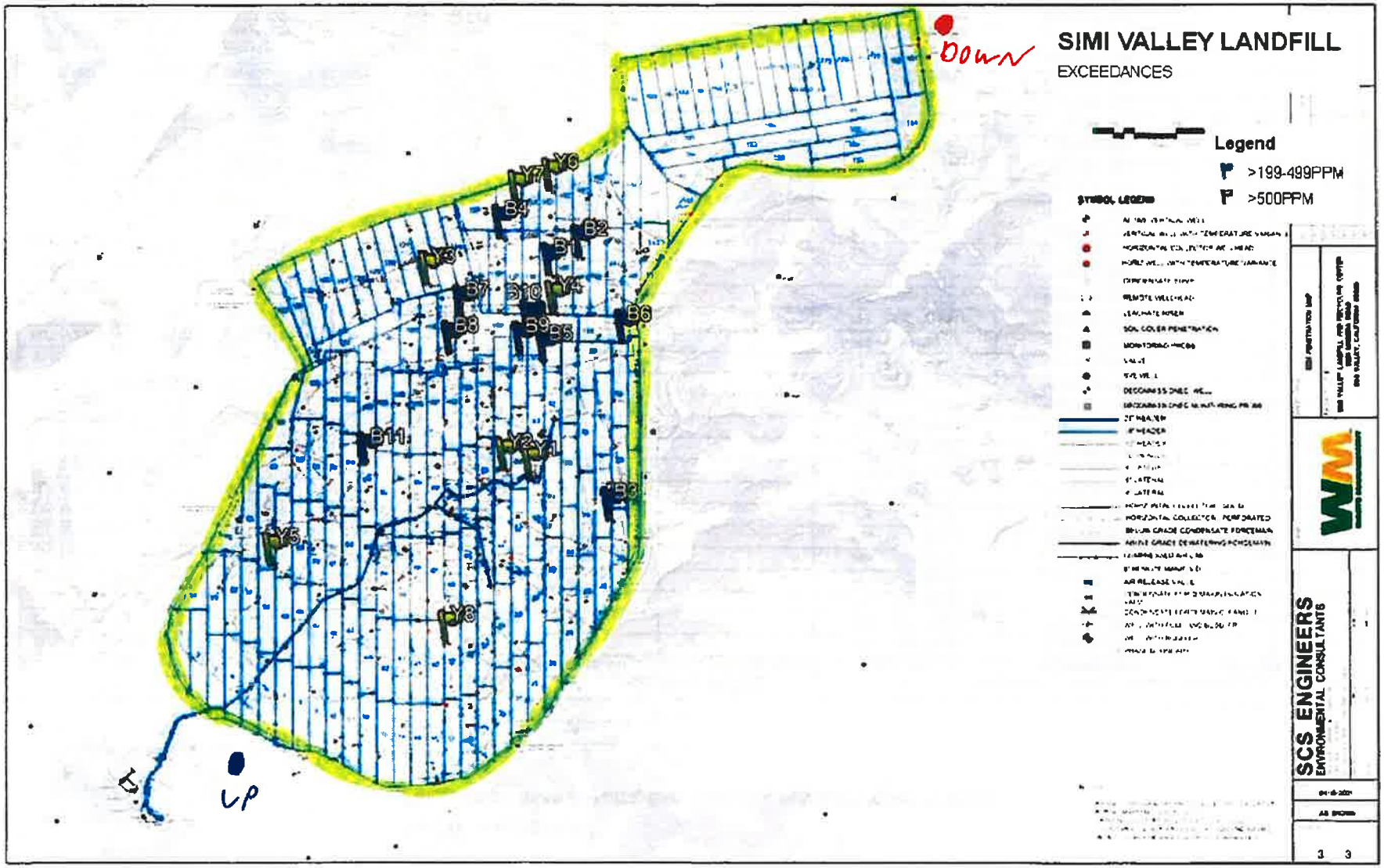
Blue Flag (200-499 ppm) Landfill Surface Emissions Monitoring
10 Day Exceedances and Monitoring Log

Site: Simi Valley Landfill

Quarter / Year:	4 QTR 2022		4TH QTR 2022		Page 1 of 1 Pages
Technician:	LMADE		Nicky Ramirez / LMADE		
Instrument:	INSPECTRA MAX		TVA 1000		
Calibration Standard:	500		500		

Initial Monitoring Event					Re-Monitoring Event – 10 Days				Comments
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	Field Reading <200 ppm	Field Reading >200 ppm	
139	B1	SIMW1815	465.9	11-28-22		12-6-22	71.08		
141	B2	SIMW1814	343.5	11-28-22		↓	144		
30	B3	SIMI0903	226.7	11-28-22		↓	106		
136	B4	Surface	203.7	12-1-22		12-10-22	112		
114	B5	Surface	270	12-7-22		12-16-22	6.34		
79	B6	Surface	210.5	12-7-22		↓	11.04		
117	B7	Surface	235.7	12-7-22		↓	13.80		
118	B8	Surface	237.5	12-7-22		↓	12.54		
112	B9	Surface	282.6	12-7-22		↓	17.61		
113	B10	Surface	230.6	12-7-22		↓	11.44		
93	B11	Surface	383.1	12-7-22		↓	10.50		


T-102
T-101
T-100
CS-3
FLARE 4
FLARE 3
CS-1
TANK 401
HYDROGEN SULFIDE TREATMENT VESSELS
CS-2
CS-4
GP-15
ST-6
ST-5
ST-7
ST-8
ENLARGED FLARE AREA LAYOUT
SCALE 1"=60'
TVA 4TH QTR 2022
12-1-22
11-30-22
11-29-22
SCALE 1"=400'
SYMBOL LEGEND
ACTIVE VERTICAL WELL
VERTICAL WELL WITH TEMPERATURE VARIANCE
HORIZONTAL COLLECTOR WELLHEAD
HORIZ WELL WITH TEMPERATURE VARIANCE
CONDENSATE SUMP
REMOTE WELLHEAD
LEACHATE RISER
MONITORING PROBE
VALVE
SVE WELL
BEM COVER PENETRATION
BASE GRAVEL PADS
HORIZONTAL GRAVEL PADS
DECOMMISSIONED VERTICAL WELL
DECOMMISSIONED HORIZONTAL WELL
DECOMMISSIONED MONITORING PROBE
30" HEADER
24" HEADER
18" HEADER
12" HEADER
10" HEADER
8" LATERAL
6" LATERAL
4" LATERAL
= MW BORINGS
= HDPE EQUIP
= ACTIVE TANK
= SCRAPER TRAFFIC
HORIZONTAL COLLECTOR SOLID
HORIZONTAL COLLECTOR PERFORATED
BELOW GRADE CONDENSATE FORCEMAIN
ABOVE GRADE DEWATERING FORCEMAIN
COMPRESSED AIR LINE
REMOTE MANIFOLD
AIR RELEASE VALVE
CONDENSATE FORCEMAIN ISOLATION VALVE
CONDENSATE FORCEMAIN CLEANOUT
WELL WITH PUMP AND BUBBLER
WELL WITH BUBBLER
PHASE BOUNDARY
LCHS PIPE
NOTES
1 AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING, DATED 2 / 22
2 EXISTING GCCS AS-BUILTS DATED 9-12-2022
3 BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-310 BOUNDARIES WITH 3 & SUBPHASES"
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
CLIENT
WASTE MANAGEMENT
SHEET TITLE
SEM PENETRATION MAP
PROJECT TITLE
SIMI VALLEY LANDFILL AND RECYCLING CENTER
3801 MADERA ROAD
SIMI VALLEY, CALIFORNIA 93065
NO
REVISION
DATE
3 of 3
DRAWING NO
SCALE
DATE


SIMI VALLEY LANDFILL
EXCEEDANCES
Legend
>199-499PPM
>500PPM
SYMBOL LEGEND
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
Down
LP

WASTE MANAGEMENT

Simi Valley (S04108)

Penetration Scan Results, Exceedances, and Corrective Actions

Year 2022

Quarter 4

Initial Monitoring Event								
IME Date	IME Location ID	IME GPS N	IME GPS E	IME Concentration (ppm)	Initial Corrective Action	IME Tech	IME Meter Model	IME Meter Serial
11/28/2022 12:27:00 PM	SIH02004	34.300630	-118.791595	12.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:57:00 AM	SIH02105	34.300968	-118.790908	2.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:27:00 PM	SIH02004	34.300630	-118.791595	12.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:57:00 AM	SIH02105	34.300968	-118.790908	2.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:29:00 PM	SIH02106	34.301163	-118.790749	17.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:14:00 PM	SIH02107	34.301604	-118.790395	70.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:09:00 PM	SIH02108	34.302028	-118.789912	10.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:36:00 AM	SIH02110	34.301926	-118.788682	2.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:58:00 AM	SIH02111	34.301953	-118.787818	28.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:05:00 PM	SIH02112	34.301999	-118.786798	75.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:21:00 AM	SIH1359A	34.295461	-118.794249	2.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:43:00 AM	SIH1362A	34.294791	-118.795876	4.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:57:00 AM	SIH1363B	34.293016	-118.795502	2.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:38:00 AM	SIH1401A	34.297383	-118.794735	2.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:32:00 AM	SIH1401B	34.298807	-118.795730	94.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:47:00 AM	SIH1403A	34.296351	-118.795450	2.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:00:00 AM	SIH1404A	34.295847	-118.795554	14.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:59:00 AM	SIH1406A	34.295112	-118.796472	2.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:18:00 AM	SIH2001A	34.298372	-118.796003	5.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:34:00 AM	SIH2001B	34.298614	-118.794978	8.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:12:00 PM	SIH2115A	34.304107	-118.786212	6.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:20:00 AM	SIH2115D	34.302038	-118.789222	2.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:15:00 AM	SIH2115F	34.301375	-118.790532	11.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:36:00 AM	SIM1562D	34.298420	-118.793106	2.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:35:00 AM	SIM1562S	34.298430	-118.793087	4.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:07:00 AM	SIM1562S	34.298430	-118.793087	1.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:22:00 AM	SIM1564D	34.297509	-118.793182	21.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:23:00 AM	SIM1564S	34.297488	-118.793172	2.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:24:00 AM	SIM1568D	34.295824	-118.793566	2.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:24:00 PM	SIM1568S	34.295821	-118.793568	3.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:05:00 AM	SIM1570D	34.295238	-118.792936	6.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:04:00 AM	SIM1570S	34.295247	-118.792927	4.60		RES - Leigh Wade	Inspectra Max	0

11/28/2022 10:26:00 AM	SIM1572D	34.294345	-118.798362	8.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:31:00 PM	SIM1572S	34.294364	-118.798371	14.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:06:00 AM	SIM1573D	34.295551	-118.794895	105.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:06:00 AM	SIM1573S	34.295521	-118.794909	3.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:35:00 AM	SIM1777D	34.297752	-118.794720	18.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:11:00 AM	SIM1777S	34.297743	-118.794722	1.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:31:00 AM	SIM1778D	34.297498	-118.793671	4.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:31:00 AM	SIM1778S	34.297499	-118.793682	4.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:06:00 PM	SIM1780D	34.296907	-118.794331	9.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:46:00 AM	SIM1782D	34.296312	-118.795872	6.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:19:00 AM	SIM1780S	34.296910	-118.794325	9534.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:14:00 AM	SIM1783D	34.296019	-118.794874	2.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:46:00 AM	SIM1788D	34.295157	-118.796131	2.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:46:00 AM	SIM1788S	34.295170	-118.796133	2.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:41:00 AM	SIM1789D	34.294774	-118.795467	3.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:41:00 AM	SIM1789S	34.294808	-118.795452	2.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:20:00 AM	SIM1792D	34.294035	-118.795012	91.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:20:00 AM	SIM1792S	34.294040	-118.795052	18.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:11:00 AM	SIM1793D	34.294584	-118.796801	4.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:14:00 AM	SIM1793S	34.294611	-118.796804	2.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:11:00 AM	SIM1799D	34.295898	-118.796812	11.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:10:00 AM	SIM1799S	34.295893	-118.796819	10.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:32:00 AM	SIM1805D	34.296403	-118.794476	28.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:31:00 AM	SIM1805S	34.296393	-118.794455	2.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:54:00 AM	SIM1924S	34.298037	-118.794842	4.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:51:00 AM	SIM1928S	34.296306	-118.795798	2.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:37:00 AM	SIM1930S	34.298425	-118.795415	8.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:45:00 AM	SIM1931S	34.298303	-118.795763	2.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:17:00 AM	SIM1932S	34.298186	-118.796085	9.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:14:00 AM	SIM1933S	34.298017	-118.796299	11.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:28:00 PM	SIM1936S	34.300534	-118.791655	12.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:21:00 AM	SIM1937S	34.297534	-118.798080	3.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:10:00 AM	SIM1938S	34.297519	-118.796381	9.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:59:00 AM	SIM2043D	34.295022	-118.795122	3.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:59:00 AM	SIM2043S	34.295028	-118.795130	3.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:56:00 AM	SIM2044D	34.295593	-118.796343	2.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:56:00 AM	SIM2044S	34.295602	-118.796348	2.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:27:00 AM	SIM2052D	34.297160	-118.793550	13.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:23:00 AM	SIM2052S	34.297128	-118.793566	10.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:54:00 AM	SIM2054D	34.295337	-118.795673	3.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:54:00 AM	SIM2054S	34.295333	-118.795674	3.10		RES - Leigh Wade	Inspectra Max	0

11/28/2022 8:37:00 AM	SIM2061D	34.297788	-118.793418	54.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:34:00 AM	SIM2061S	34.297801	-118.793429	14.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:28:00 PM	SIM2064D	34.295022	-118.794629	18.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:03:00 AM	SIM2064S	34.295017	-118.794634	4.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:48:00 AM	SIM2081D	34.296181	-118.795444	4.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:47:00 AM	SIM2081S	34.296182	-118.795425	4.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:53:00 AM	SIM2100S	34.303389	-118.791885	9.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:50:00 AM	SIM2104S	34.300399	-118.794962	1.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:57:00 AM	SIMH0017	34.291777	-118.795667	3.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:36:00 AM	SIMH016N	34.293017	-118.793574	31.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:52:00 AM	SIMH018S	34.291858	-118.795685	3.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:59:00 AM	SIMH022S	34.292222	-118.794720	9.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:04:00 AM	SIMHL001	34.298731	-118.794123	2.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:29:00 PM	SIMHL002	34.298233	-118.794495	18.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:34:00 PM	SIMHL003	34.298233	-118.794513	36.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:53:00 AM	SIMHL005	34.296076	-118.795624	4.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:47:00 AM	SIMI0901	34.297331	-118.792205	2.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:52:00 AM	SIMI0902	34.296720	-118.792333	2.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:52:00 AM	SIMI0902	34.296720	-118.792333	2.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:56:00 AM	SIMI0903	34.296114	-118.792219	226.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:04:00 AM	SIMI0904	34.294770	-118.792750	22.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:10:00 AM	SIMI0905	34.294397	-118.793047	2.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:45:00 AM	SIMLR00B	34.292689	-118.794125	4.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:54:00 AM	SIMLR00D	34.296020	-118.799545	40.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:44:00 AM	SIMLR22C	34.303713	-118.792271	2.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:35:00 AM	SIMLR602	34.298440	-118.798531	3.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:21:00 AM	SIMSVE03	34.299975	-118.791745	2.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:07:00 AM	SIMW0001	34.292514	-118.798894	2.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:40:00 AM	SIMW0002	34.293745	-118.799060	4.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:43:00 AM	SIMW0003	34.295301	-118.798860	1029.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:29:00 PM	SIMW0004	34.293245	-118.798149	11.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:59:00 AM	SIMW0006	34.292427	-118.797675	2.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:20:00 AM	SIMW0018	34.294378	-118.799869	2.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:17:00 AM	SIMW0019	34.293269	-118.799549	2.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:31:00 AM	SIMW0031	34.299047	-118.795151	9.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:37:00 PM	SIMW0045	34.298942	-118.792213	17.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:58:00 AM	SIMW0048	34.298541	-118.793770	28.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:15:00 AM	SIMW007R	34.294042	-118.797644	4.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:46:00 AM	SIMW010R	34.294656	-118.797531	3.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:09:00 AM	SIMW012R	34.295604	-118.796902	2.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:06:00 AM	SIMW0202	34.297028	-118.792725	2.60		RES - Leigh Wade	Inspectra Max	0

11/28/2022 9:43:00 AM	SIMW0708	34.292761	-118.795559	5.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:12:00 AM	SIMW0808	34.293111	-118.798848	2.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:37:00 AM	SIMW0811	34.294938	-118.800035	2.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:03:00 AM	SIMW0814	34.296638	-118.798843	6.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:55:00 AM	SIMW0817	34.297946	-118.798337	9.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:17:00 AM	SIMW0818	34.298303	-118.797671	3.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:21:00 AM	SIMW0819	34.298695	-118.796978	10.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:13:00 AM	SIMW0820	34.299006	-118.796229	4.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:49:00 AM	SIMW09RD	34.293209	-118.796977	5.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:56:00 AM	SIMW1005	34.295219	-118.795430	3.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:44:00 AM	SIMW1008	34.295658	-118.795806	4.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:06:00 AM	SIMW1010	34.297631	-118.797803	1011.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:06:00 AM	SIMW1011	34.294941	-118.796907	3.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:06:00 AM	SIMW1012	34.294173	-118.797174	2.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:39:00 AM	SIMW1014	34.295187	-118.798665	9.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:16:00 AM	SIMW1102	34.298196	-118.796846	36.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:43:00 AM	SIMW1104	34.297387	-118.794682	2.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:07:00 AM	SIMW1107	34.295748	-118.798320	2.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:44:00 AM	SIMW115S	34.296943	-118.792607	2.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:38:00 AM	SIMW116R	34.296390	-118.792571	5.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:20:00 AM	SIMW1219	34.297997	-118.794614	5.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:14:00 AM	SIMW1220	34.297311	-118.794212	1.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:58:00 AM	SIMW1222	34.296287	-118.796980	11.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:47:00 AM	SIMW1225	34.295676	-118.795557	10.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:42:00 AM	SIMW1227	34.294865	-118.798051	3.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:08:00 AM	SIMW1228	34.294295	-118.797006	2.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:01:00 AM	SIMW1229	34.295110	-118.796511	2.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:01:00 AM	SIMW1231	34.293608	-118.796380	2.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:44:00 AM	SIMW1234	34.295036	-118.797977	3.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:59:00 AM	SIMW1353	34.297757	-118.795567	2.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:04:00 AM	SIMW135S	34.296712	-118.797805	3.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:53:00 AM	SIMW1356	34.296049	-118.796096	15.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:39:00 AM	SIMW1563	34.298116	-118.792249	4.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:45:00 AM	SIMW1565	34.296919	-118.792850	3.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:09:00 AM	SIMW1569	34.295342	-118.794422	2.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:50:00 AM	SIMW1571	34.294688	-118.794875	4.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:37:00 AM	SIMW1776	34.298621	-118.794857	14.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 7:52:00 AM	SIMW1779	34.296769	-118.793805	17012.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:42:00 AM	SIMW1781	34.296976	-118.795204	3.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:47:00 AM	SIMW1785	34.295068	-118.793921	2.10		RES - Leigh Wade	Inspectra Max	0

11/28/2022 9:04:00 AM	SIMW1786	34.295331	-118.795082	3.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:30:00 PM	SIMW1787	34.295535	-118.795823	13.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:17:00 AM	SIMW1790	34.294482	-118.794503	3.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:13:00 AM	SIMW1794	34.298024	-118.796470	3.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:37:00 AM	SIMW1795	34.297763	-118.795547	2.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:09:00 AM	SIMW1796	34.297484	-118.797191	7.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:01:00 AM	SIMW1798	34.296667	-118.797412	7.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:44:00 AM	SIMW1802	34.298105	-118.793642	2.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:46:00 AM	SIMW1803	34.298077	-118.795102	2.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:51:00 AM	SIMW1806	34.295608	-118.798170	124.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:59:00 AM	SIMW1807	34.297199	-118.795775	19.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:50:00 AM	SIMW1808	34.291826	-118.798483	2.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:21:00 PM	SIMW1809	34.300906	-118.793581	31.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:24:00 PM	SIMW1810	34.301051	-118.792908	46.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:31:00 PM	SIMW1811	34.300856	-118.792377	10.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:29:00 PM	SIMW1812	34.300607	-118.791770	8.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:27:00 PM	SIMW1813	34.300213	-118.792415	20.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:23:00 PM	SIMW1814	34.300460	-118.792886	343.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:15:00 PM	SIMW1815	34.300178	-118.793474	465.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:21:00 PM	SIMW1816	34.299542	-118.793350	1542.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:33:00 PM	SIMW1817	34.299563	-118.792671	111.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:28:00 PM	SIMW1818	34.301176	-118.793525	44.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:30:00 PM	SIMW1819	34.301490	-118.792806	18.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:26:00 PM	SIMW1821	34.301020	-118.791912	9.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:53:00 AM	SIMW2001	34.299713	-118.795240	11.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:48:00 AM	SIMW2002	34.299614	-118.794506	2.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 7:58:00 AM	SIMW2003	34.299972	-118.793976	41.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:08:00 PM	SIMW2004	34.300491	-118.793878	60.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:02:00 AM	SIMW2005	34.299943	-118.792895	193.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:38:00 AM	SIMW2006	34.292997	-118.795025	3.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:32:00 AM	SIMW2007	34.293296	-118.794632	2.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:52:00 AM	SIMW2009	34.295677	-118.798916	2.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:05:00 AM	SIMW2041	34.293815	-118.796839	2.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:27:00 AM	SIMW2045	34.295389	-118.793514	3.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:14:00 AM	SIMW2046	34.296554	-118.797113	32.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:35:00 AM	SIMW2047	34.296667	-118.794823	7.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:06:00 AM	SIMW2048	34.297157	-118.797807	3.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:19:00 AM	SIMW2049	34.297026	-118.797212	2.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:50:00 AM	SIMW2053	34.297832	-118.794089	2.70		RES - Leigh Wade	Inspectra Max	0

11/28/2022 10:22:00 AM	SIMW2056	34.296968	-118.795703	6.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:00:00 AM	SIMW2057	34.298358	-118.794356	2.80		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:54:00 AM	SIMW2058	34.298655	-118.793323	139.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:22:00 AM	SIMW2059	34.298633	-118.796351	13.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:45:00 AM	SIMW2060	34.299255	-118.794663	2.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:21:00 AM	SIMW2065	34.296249	-118.793386	2.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:30:00 PM	SIMW2070	34.300270	-118.792034	11.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:21:00 PM	SIMW2071	34.299987	-118.794518	35.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:50:00 AM	SIMW2072	34.300234	-118.795128	39.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:43:00 AM	SIMW2073	34.300040	-118.795880	2038.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:22:00 AM	SIMW2073	34.300040	-118.795880	2.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:29:00 AM	SIMW2074	34.299764	-118.796625	3.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:45:00 AM	SIMW2076	34.299824	-118.797947	4.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:56:00 AM	SIMW2077	34.300033	-118.797247	6.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:54:00 AM	SIMW2078	34.300321	-118.796454	3.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:06:00 PM	SIMW2079	34.300517	-118.795722	24.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:08:00 PM	SIMW2080	34.300649	-118.794878	58.00		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:32:00 PM	SIMW2082	34.299930	-118.792297	41.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:29:00 AM	SIMW2083	34.294060	-118.794113	4.90		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:08:00 AM	SIMW2086	34.295801	-118.794702	2.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:21:00 AM	SIMW2087	34.300353	-118.794488	2.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:35:00 AM	SIMW2088	34.300752	-118.794380	4.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:24:00 PM	SIMW2089	34.301240	-118.792178	28.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:23:00 PM	SIMW2090	34.301559	-118.793461	812.20		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:20:00 PM	SIMW2091	34.301374	-118.794108	744.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:19:00 AM	SIMW2092	34.301191	-118.794733	2.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:05:00 PM	SIMW2093	34.301040	-118.795493	189.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 12:06:00 PM	SIMW2095	34.300621	-118.797049	70.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 11:27:00 AM	SIMW2097	34.299544	-118.797339	6.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 8:51:00 AM	SIMW2098	34.298987	-118.797031	10.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:11:00 AM	SIMW703D	34.294526	-118.793549	4.70		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:10:00 AM	SIMW703S	34.294513	-118.793537	6.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:22:00 AM	SIMW707D	34.294004	-118.795408	558.40		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:48:00 AM	SIMW709D	34.292709	-118.796376	2.60		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:49:00 AM	SIMW709S	34.292704	-118.796383	3.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 9:59:00 AM	SIMW805S	34.293594	-118.796029	4.50		RES - Leigh Wade	Inspectra Max	0
11/28/2022 10:28:00 AM	SIMW810S	34.294733	-118.799232	2.30		RES - Leigh Wade	Inspectra Max	0
11/28/2022 7:47:00 AM	SIMW822D	34.296900	-118.793811	18.10		RES - Leigh Wade	Inspectra Max	0
11/28/2022 7:49:00 AM	SIMW822S	34.296914	-118.793751	2.50		RES - Leigh Wade	Inspectra Max	0

11/28/2022 9:58:00 AM	SIMWO9RS	34.293206	-118.796985	3.40		RES - Leigh Wade	Inspectra Max	0

Attachment B

Integrated Surface Emission Monitoring Event Records

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LOIS KNADLER, CHRISTOPHER DOS, KEVIN RINKER, GORDON STROUP, MICHAEL GUSTAFSON, STEVEN USHER

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

Date: 12-6-22 Instrument Used: Inspector 9 Grid Spacing: 25'

Temperature: 48 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.3

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	SV	0735	0755	4.43		1	2	15	
2	SV	0755	0815	2.43		2	3	16	
3	SV	0815	0835	1.89		2	3	16	
4	SV	0835	0855	2.02		3	5	16	
5	SV	0855	0915	1.91		3	5	14	
6	SV	0915	0930	1.80		4	6	16	
7	SV	0930	0950	1.43		4	6	1	
8	SV	0950	1005	1.45		4	6	2	
9	SV	1005	1020	2.03		4	6	16	
10	SV	1020	1040	2.25		3	5	16	
11	SV	1040	1055	2.72		3	5	16	
27	SV	1057	1108	3.13		2	4	16	
28	SV	1108	1115	2.11		1	2	16	
29	SV	1115	1125	1.87		0	0	2	
30	SV	1125	1135	2.11		1	3	16	
31	SV	1135	1145	2.16		0	1	6	
43	KR	0745	0810	4.05		1	3	15	
42	KR	0815	0830	4.98		2	3	16	
41	KR	0831	0846	5.26		3	5	1	
40	KR	0846	0901	4.85		4	6	1	
39	KR	0902	0927	6.27		4	7	16	
17	KR	0927	0945	1.94		5	8	1	
16	KR	0946	1001	2.47		4	7	16	
15	KR	1002	1017	2.81		1	3	16	
14	KR	1020	1035	2.38		3	5	16	
13	KR	1037	1102	1.35		1	2	16	
12	KR	1103	1128	1.01		1	2	16	
54	CH	0855	0920	6.61		2	3	15	
53	CH	0920	0852	2.96		3	5	16	
52	CH	0852	0917	2.37		3	5	16	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEISHNADE, CHRIS Hughes, KEVIN Rinaker, GEORGE SHARP, MIGUEL ESTRADA, STEVEN VEGA01

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

Date: 12-6-22 Instrument Used: Inspecting Grid Spacing: 25'

Temperature: 59 Precip 0 Upwind BG: 1.8 Downwind BG: 2.3

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
51	CH	0920	0945	2.09		5	6	2	
50	CH	0945	1005	2.11		4	6	2	
49	CH	1005	1022	2.10		4	6	16	
48	CH	1022	1041	2.33		3	5	16	
47	CH	1041	1056	2.67		3	5	16	
46	CH	1056	1110	2.55		2	4	16	
45	CH	1110	1126	2.57		0	0	2	
44	CH	1126	1145	2.73		0	1	6	
65	65	0752	0816	4.27		2	3	16	
64	65	0816	0839	4.09		2	3	16	
63	65	0839	0902	4.52		4	6	1	
62	65	0902	0926	3.79		4	7	16	
61	65	0926	0950	3.41		4	6	1	
60	65	0950	1003	2.55		4	6	2	
59	65	1013	1036	5.09		3	5	16	
58	65	1036	1059	4.29		3	5	16	
57	65	1059	1120	2.54		0	0	2	
56	65	1120	1140	1.93		0	1	6	
55	65	1140	1200	3.00		0	1	14	
66	ME	0753	0808	2.90		1	3	15	
67	ME	0820	0840	3.66		2	3	16	
68	ME	0840	0855	2.42		3	5	16	
69	ME	0855	0920	3.23		3	5	16	
70	ME	0920	0940	3.00		5	6	2	
71	ME	0940	1005	2.97		4	6	2	
72	ME	1005	1025	4.41		4	6	16	
73	ME	1025	1050	2.95		3	5	16	
74	ME	1050	1115	3.03		2	4	16	
75	ME	1115	1140	2.43		0	1	6	
76	ME	1140	1205	3.40		0	1	14	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leigh WADE, Miguel Esteban, Chris Hughes, Steve Vasadi, Gustav Szabo

Cal. Gas Exp. Date: 2-10-24

Date: 12-7-22 Instrument Used: Inspectra Grid Spacing: 25'

Temperature: 49 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.4

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
142	LW	0900	0925	5.10		3	4	9	
143	LW	0925	0940	9.55		3	4	9	
144	LW	0940	0955	6.86		3	5	8	
145	LW	1000	1015	8.59		3	5	10	
121	LW	1015	1030	11.70		2	3	8	
122	LW	1030	1045	11.10		1	3	10	
107	LW	1045	1105	3.24		1	2	6	
109	ME	0736	0801	9.65		3	5	8	
108	ME	0801	0825	9.63		3	5	8	
107	ME	0826	0851	9.36		3	5	8	
105	ME	0817	0841	9.68		3	4	9	
104	ME	0842	1007	6.70		1	4	8	
102	ME	1008	1023	5.71		1	2	10	
101	ME	1023	1103	4.19		1	2	6	
100	ME	1103	1133	3.37		0	1	8	
87	SV	0745	0810	2.87		3	5	8	
85	SV	0835	0845	2.92		4	6	8	
84	SV	0845	0857	4.08		3	5	8	
83	SV	0900	0915	2.56		3	4	8	
82	SV	0915	0930	3.25		3	4	8	
81	SV	0930	0945	1.82		3	4	9	
80	SV	0945	1010	6.11		2	5	10	
77	SV	1010	1035	7.86		1	2	10	
78	SV	1035	1100	6.22		1	2	6	
79	SV	1100	1125	24.77		1	3	8	
88	GS	0735	0750	8.32		3	5	8	
89	GS	0750	0810	4.12		3	5	8	
90	GS	0810	0822	3.40		2	4	8	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leys Lmaot — Miguel Espinoza — Chris Hughes — Steven Vasado — George Sharp

Cal. Gas Exp. Date: 7-1-24

Date: 12-7-22 Instrument Used: Inspectra Grid Spacing: 25'

Temperature: 67 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.4

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM		WIND INFORMATION AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
91	GS	0822	0836	8.65		3	4	8	
92	GS	0836	0852	6.31		3	5	6	
93	GS	0852	0906	5.79		3	5	6	
94	GS	0906	0918	3.46		2	4	6	
95	GS	0918	0932	2.30		3	4	6	
96	GS	0932	0956	4.44		3	5	6	
97	GS	0957	1021	2.89		3	5	10	
98	GS	1022	1036	2.21		1	2	10	
99	GS	1037	1055	2.37		1	3	6	
186	GS	1056	1123	4.25		1	3	6	
187	GS	1124	1140	8.15		2	4	14	
188	GS	1140	1157	11.61		3	5	16	
189	GS	1157	1215	13.85		2	4	16	
190	GS	1215	1240	10.13		1	3	13	
115	CH	0800	0825	8.09		3	5	6	
114	CH	0825	0850	55.36		3	5	6	
113	CH	0850	0915	12.39		2	4	6	
112	CH	0915	0940	13.28		3	4	9	
111	CH	0940	0955	5.68		3	5	6	
110	CH	0955	1015	3.35		3	5	10	
116	CH	1015	1030	20.04		1	2	10	
117	CH	1030	1055	23.42		2	3	8	
118	CH	1055	1120	17.86		1	3	6	
119	CH	1120	1140	8.93		1	2	6	
120	CH	1140	1205	8.35		2	4	14	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: ACTIVE LIST _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 12-7-22 Instrument Used: _____ Grid Spacing: _____

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
18									FINAL CAP
19									WORK HIGHLY
20									EQUIPMENT
21									
22									
23									
24									
25									
26									
27									
38									
37									
36									
35									
34									
33									
32									
151									SCRAPER
152									TRAFFIC
153									
154									
155									
156									
125									
124									
126									
123									
127									
128									
129									

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: ACTIVE LIST _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 12-7-22 Instrument Used: _____ Grid Spacing: _____

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
130									SCRUBBER
131									TRAFFIC
132									
133									
134									
135									ACTIVE TRASH
136									
137									
138									
139									
140									
150									
149									
148									
147									
146									
157									
158									
164									
165									
166									
163									
167									
162									
160									
159									
161									
185									
184									
183									

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: ACTIVE LIST _____ _____ _____ _____ _____ _____ _____ _____ Cal. Gas Exp. Date: _____

Date: 12-7-22 Instrument Used: _____ Grid Spacing: _____

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
182									ACTIVE
181									TRASH AREA
180									
179									
178									
177									
176									
175									
174									
173									
172									
171									
170									
169									
168									
191									
192									
193									
194									
195									
196									
197									
198									
199									
200									
201									
202									
203									
106									HEAVY EQUIPMENT
86									

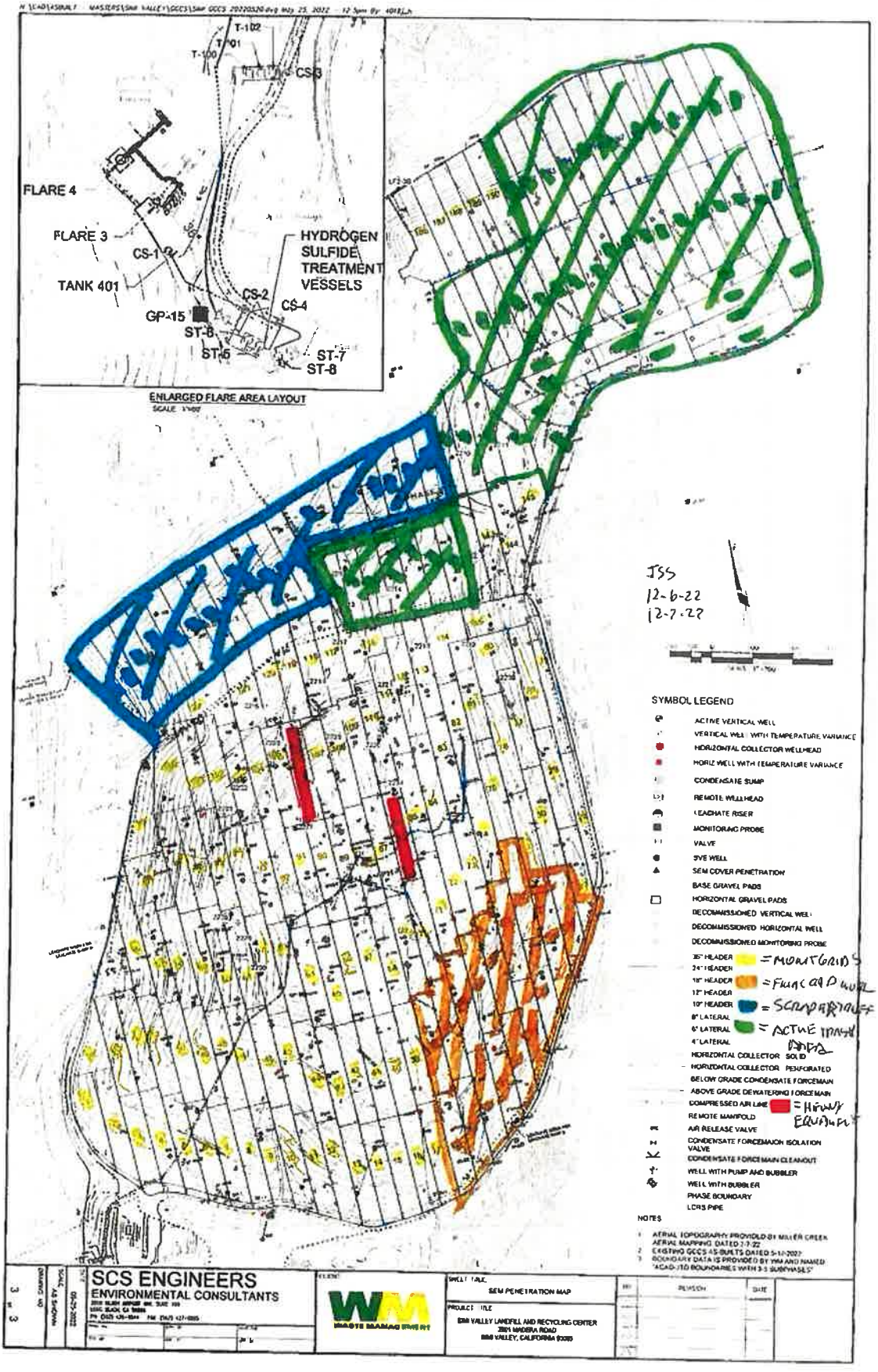
Attach Calibration Sheet
Attach site map showing grid ID

Integrated Surface Sampling
10 Day Exceedances and Monitoring Log

Site: SIMI VALLEY

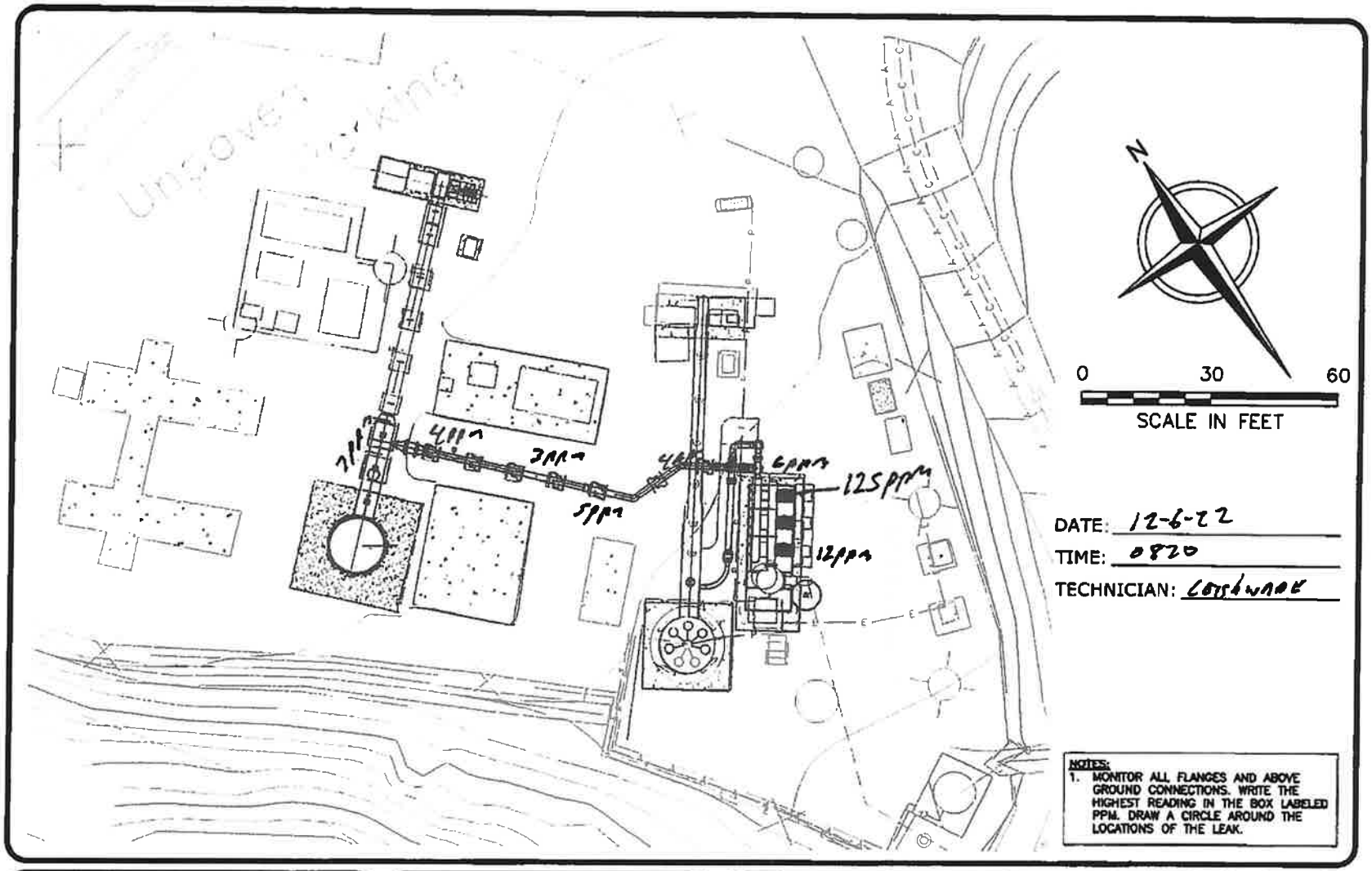
Page 1 of 1 Pages

Quarter / Year:	4TH QTR 2022	4TH QTR 2022							
Technician:	LANDE	R. RAMIREZ							
Instrument:	INSPECTION MAY	YSA 1000							
Calibration Standard:									
Initial Monitoring Event			**First Re-Monitoring Event – 10 Days**				**Second Re-Monitoring Event – 10 Days**			
Grid Number	**Field Reading (ppm)**	**Date Monitored**	**Remedial Work**	**Date Monitored**	**No Excd. <25 ppm**	**Excd. >25 ppm**	**Remedial Work**	**Date Monitored**	**No Excd. <25 ppm**	**Excd. >25 ppm**
GRID 1/4	55.36	12-7-22		12-16-22	4.74					


T-102
T-101
T-100
CS-3
FLARE 4
FLARE 3
CS-1
TANK 401
HYDROGEN SULFIDE TREATMENT VESSELS
CS-2
CS-4
GP-15
ST-6
ST-5
ST-7
ST-8
ENLARGED FLARE AREA LAYOUT
SCALE 1"=60'
JSS
12-6-22
12-7-22
SYMBOL LEGEND
ACTIVE VERTICAL WELL
VERTICAL WELL WITH TEMPERATURE VARIANCE
HORIZONTAL COLLECTOR WELLHEAD
HORIZ WELL WITH TEMPERATURE VARIANCE
CONDENSATE SUMP
REMOTE WELLHEAD
LEACHATE RISER
MONITORING PROBE
VALVE
SVE WELL
SEM COVER PENETRATION
BASE GRAVEL PADS
HORIZONTAL GRAVEL PADS
DECOMMISSIONED VERTICAL WELL
DECOMMISSIONED HORIZONTAL WELL
DECOMMISSIONED MONITORING PROBE
36" HEADER
24" HEADER
18" HEADER
12" HEADER
10" HEADER
8" LATERAL
6" LATERAL
4" LATERAL
HORIZONTAL COLLECTOR SOLID
HORIZONTAL COLLECTOR PERFORATED
BELOW GRADE CONDENSATE FORCEMAIN
ABOVE GRADE DEWATERING FORCEMAIN
COMPRESSED AIR LINE
REMOTE MANIFOLD
AIR RELEASE VALVE
CONDENSATE FORCEMAIN ISOLATION VALVE
CONDENSATE FORCEMAIN CLEANOUT
WELL WITH PUMP AND BUBBLER
WELL WITH BUBBLER
PHASE BOUNDARY
LCRS PIPE
NOTES
1 AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING DATED 1-7-22
2 EXISTING GCCS AS-BUILTS DATED 5-11-2022
3 BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-ITD BOUNDARIES WITH 3-5 SUBPHASES"
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
WASTE MANAGEMENT
SHEET TITLE
SEM PENETRATION MAP
PROJECT TITLE
BIG VALLEY LANDFILL AND RECYCLING CENTER
28874 MADERA ROAD
BIG VALLEY, CALIFORNIA 93309
REVISION
DATE

Attachment C

Component Leak Monitoring Event Records



TETRA TECH

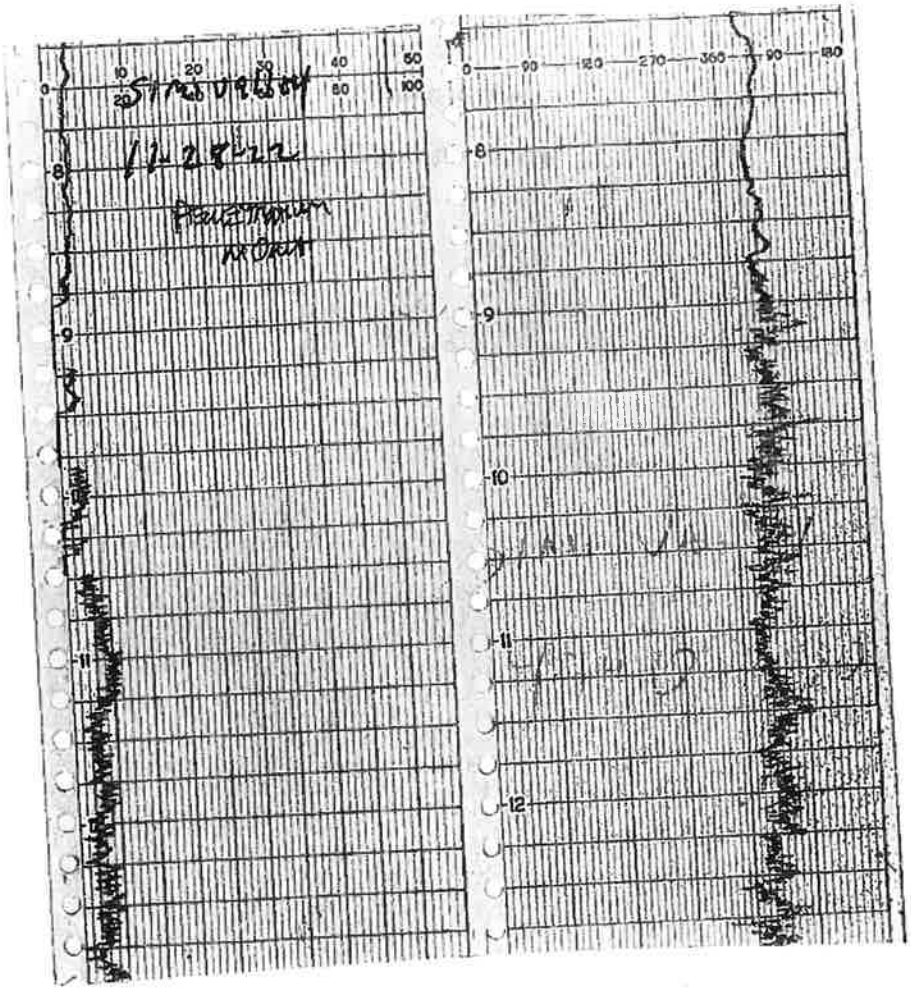
SIMI VALLEY LANDFILL
AND RECYCLING CENTER
SIMI VALLEY, CALIFORNIA
SEM RESULTS - FLARE STATION

FIGURE NO.
1
PROJECT NO.
200026

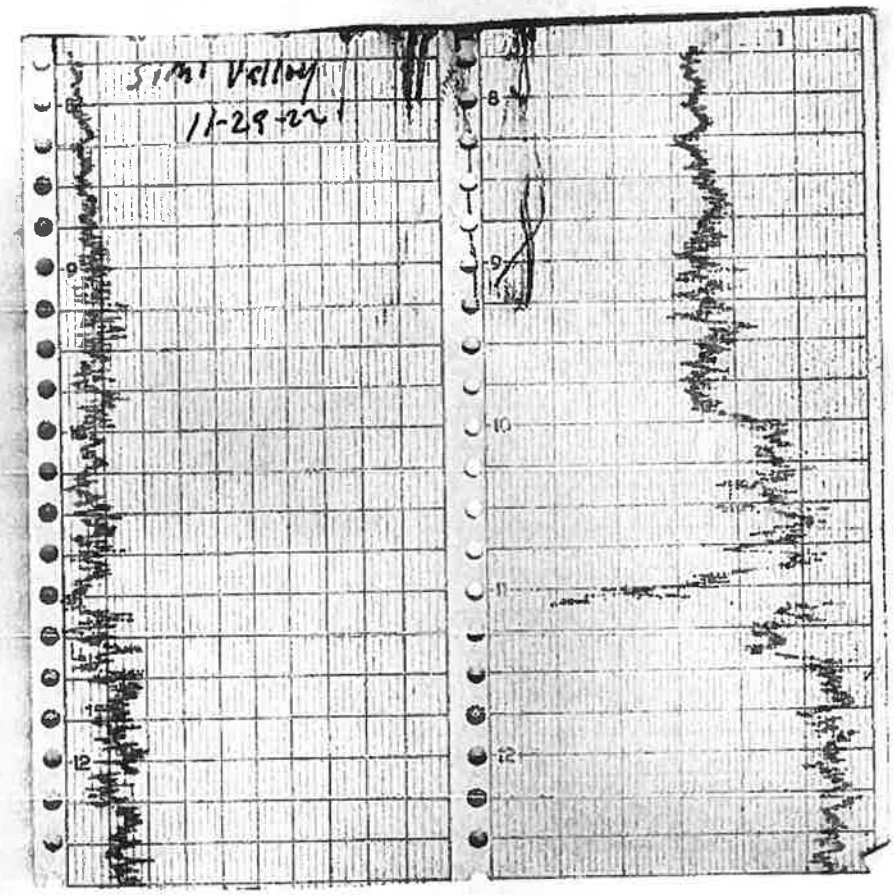
Attachment D

Weather Station Data

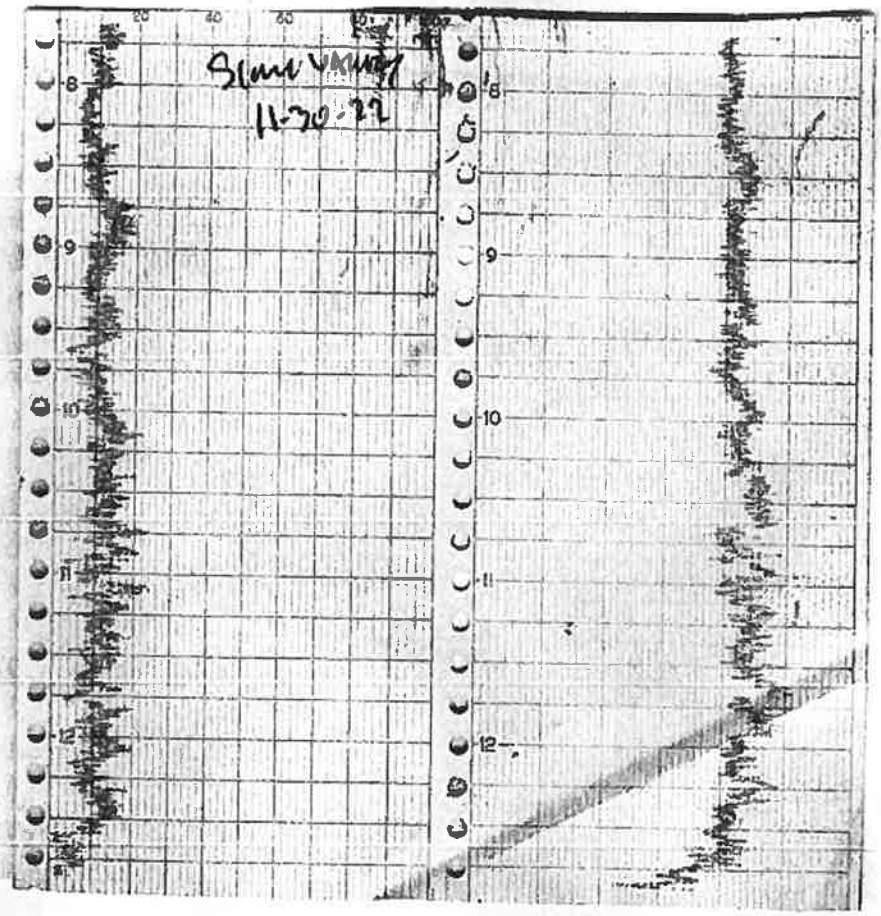
WIND SPEED & DIRECTION CHART ROLL



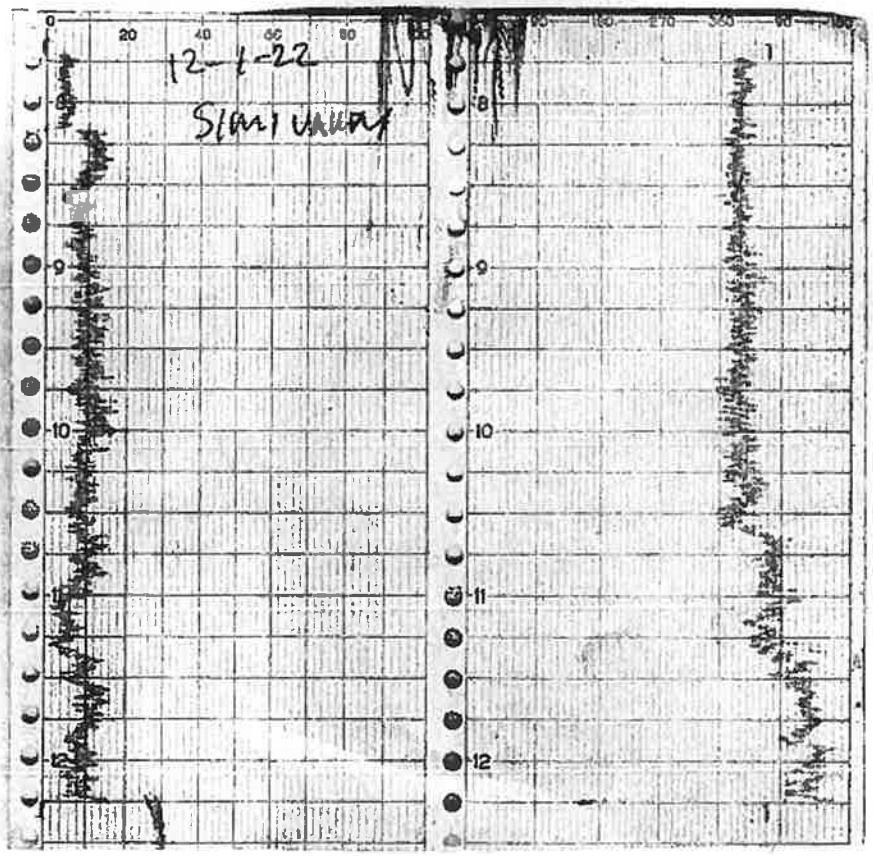
WIND SPEED & DIRECTION CHART ROLL



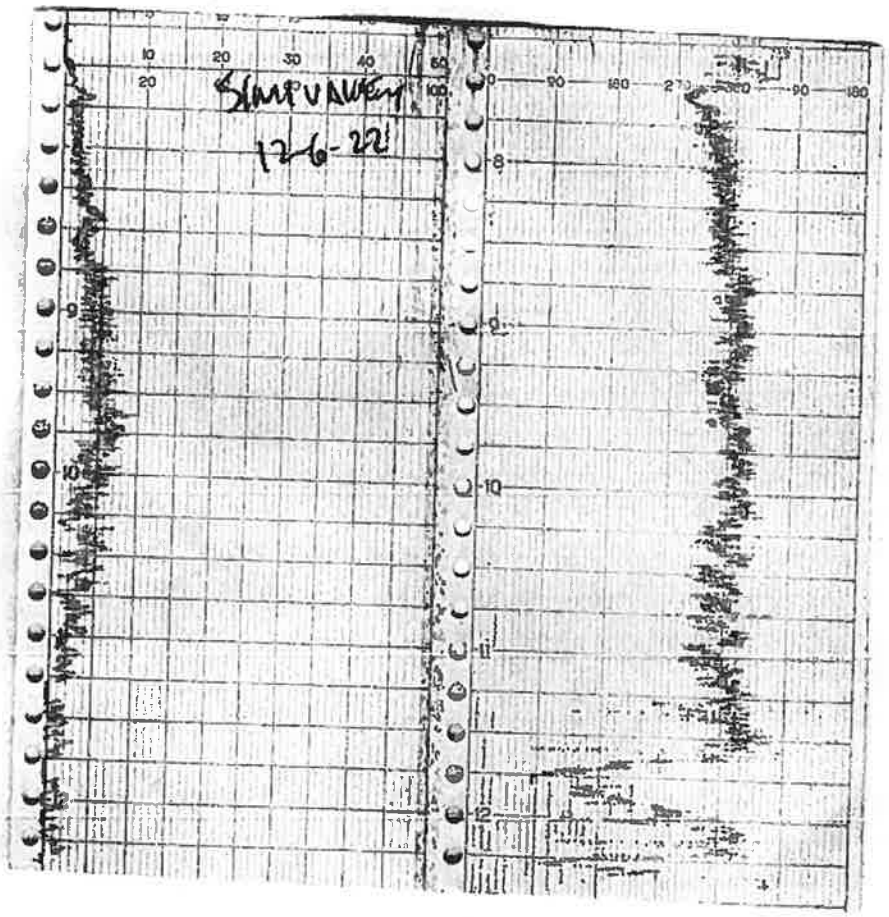
WIND SPEED & DIRECTION CHART ROLL



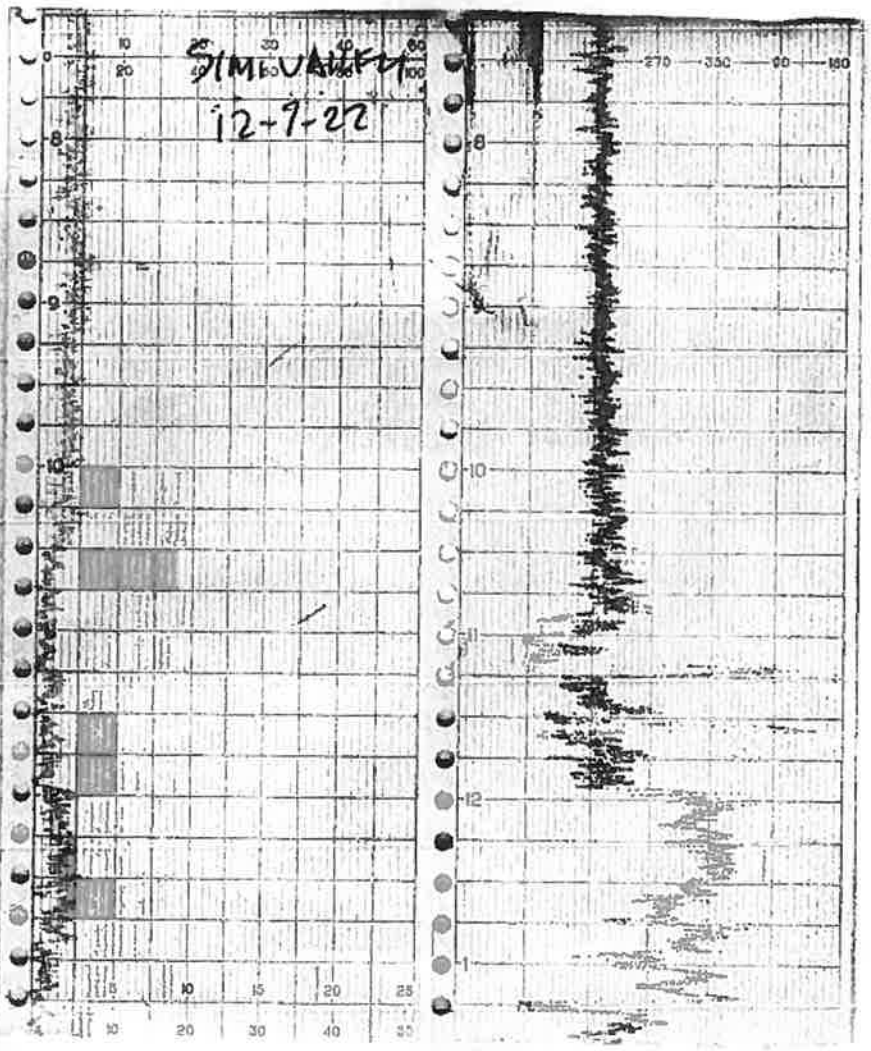
WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL

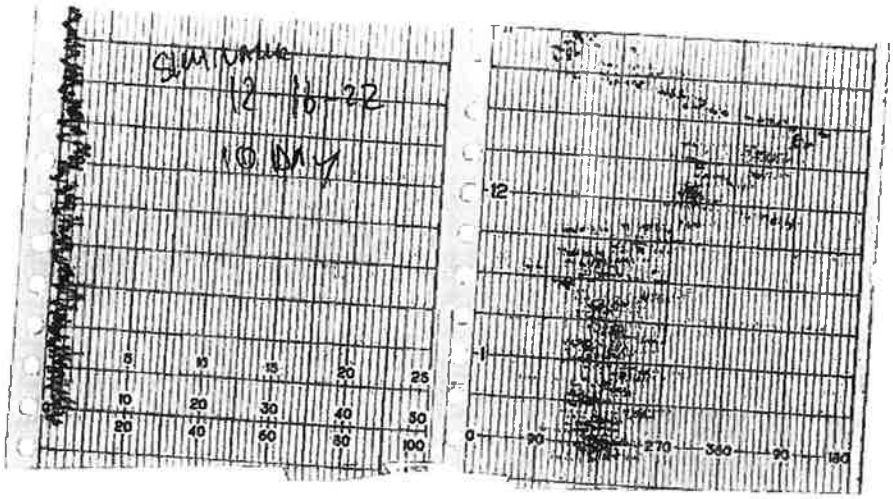


WIND SPEED & DIRECTION CHART ROLL

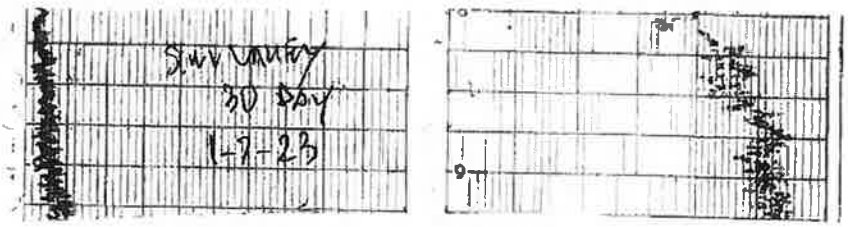


WIND SPEED & DIRECTION CHART ROLL

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



RES Environmental Inc.

16-POINT WIND DIRECTION INDEX

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

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

Attachment E

Calibration Records

KDS

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME S.M. 9/1/04 INSTRUMENT MAKE Ludlum

MODEL HVA1000 EQUIPMENT # 10 SERIAL # 1036346773

MONITORING DATE 12-6-22 TIME 0740

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.6 ppm	2.8 ppm	2.7 ppm

Background Value = 2.7 ppm

INSTRUMENT RESPONSE TIME RECORD

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

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.10 ppm	507 ppm	7
#2	0.06 ppm	500 ppm	0
#3	0.04 ppm	500 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			0.46 #DIV/0! Must be less than 10%

Technician Chris Lavado Date/Time 12-6-22 0740

RIES
Environmental Inc

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: SIMI VALLEY INSTRUMENT MAKE: THERMO

MODEL: TVA 1000 EQUIPMENT #: #4 SERIAL #: 16319830

MONITORING DATE: 12-10-22 TIME: 0900

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe Stabilized reading = 502 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1.9 ppm	2.8 ppm	2.3 ppm

Background Value = 2.3 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 ppm	6
#2	500 ppm	450 ppm	6
#3	501 ppm	450 ppm	6
Calculate Response Time (1+2+3) / 3			6.0 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.69 ppm	502 ppm	2
#2	0.63 ppm	500 ppm	0
#3	0.71 ppm	501 ppm	1
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			0.2 #DIV/0! Must be less than 10%

Performed By: R. Jimenez Date/Time: 12-10-22 0900

RES

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: SINI VALLEY INSTRUMENT MAKE: THERMO

MODEL: TVA 1000 EQUIPMENT #: #1 SERIAL #: 163208 32

MONITORING DATE: 12-16-22 TIME: 1115

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 26 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1.6 ppm	2.4 ppm	2.0 ppm

Background Value = 2.0 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 ppm	23.0 ppm	8
#2	25 ppm	23.0 ppm	6
#3	25 ppm	23.0 ppm	7
Calculate Response Time (1+2+3) / 3			6.3 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.46 ppm	26 ppm	1
#2	0.51 ppm	25 ppm	0
#3	0.41 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			1.3 #DIV/0! Must be less than 10%

Performed By: R. Williams Date/Time 12-16-22 1115

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: #4 SERIAL #: 16319830

MONITORING DATE: 12-16-22 TIME: 1130

Calibration Procedure:

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

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1.6 ppm	2.4 ppm	2.0 ppm

Background Value = 2.0 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	500 ppm	450 ppm	6
#2	501 ppm	450 ppm	7
#3	501 ppm	450 ppm	6
Calculate Response Time (1+2+3) / 3			6.3 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.49 ppm	500 ppm	0
#2	0.68 ppm	501 ppm	1
#3	0.32 ppm	501 ppm	1
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.1 #DIV/0! Must be less than 10%

Performed By: R. Nunnley Date/Time: 12-16-22 1130

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Simi Valley INSTRUMENT MAKE: THERMO

MODEL: TVA 1000 EQUIPMENT #: #4 SERIAL #: 1035045571

MONITORING DATE: 1-7-23 TIME: 0830

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 501 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1.9 ppm	2.7 ppm	2.3 ppm

Background Value = 2.3 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	501 ppm	450 ppm	5
#2	500 ppm	450 ppm	6
#3	500 ppm	450 ppm	5
Calculate Response Time (1+2+3) / 3			5.3 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.61 ppm	501 ppm	1
#2	0.59 ppm	500 ppm	0
#3	0.54 ppm	500 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			.06 #DIV/0! Must be less than 10%

Performed By: _____ Date/Time: 1-7-23 0830

Datafield

Project :	RES_SimiValley landfill	**Date/Time :**	12/6/2022 4:50:09 AM
Model Number :	INSPECTRA	**Serial Number :**	1001221
Latitude :	34.0563955	**Longitude :**	-117.3072657
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Dec-06 04:51 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		T90	Reading	T90	Reading	T90	Reading	Average Algebraic Difference	Calibration Precision	Calibration Precision < 10	Average Response Time
	(ppm)	(sec)	(ppm)	(sec)	(ppm)	(sec)	(ppm)		(%)		(s)
ZERO	0										
Calibration Gas #1	500	7.9	463.3	6.2	464.8	6.6	464.7	35.7	7.1%	Yes	6.9

Datafield

Gas Sequence ID :	0	**Date/Time :**	12/6/2022 4:50:09 AM
Gas Manufacturer :	Intermountain	**Gas Lot Number :**	20-7421
Gas Expiration Date :	7/10/2024	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

DataField

Gas Sequence ID :	1	**Date/Time :**	12/6/2022 4:50:09 AM
Gas Manufacturer :	intermountain	**Gas Lot Number :**	0-135-81
Gas Expiration Date :	11/10/2023	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Datafield

Project :	RES_SimiValley landfill	**Date/Time :**	12/6/2022 4:54:25 AM
Model Number :	INSPECTRA	**Serial Number :**	761121
Latitude :	34.0563934	**Longitude :**	-117.3072738
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Dec-06 04:55 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		T90	Reading	T90	Reading	T90	Reading	Average Algebraic Difference	Calibration Precision	Calibration Precision < 10	Average Response Time
	(ppm)	(sec)	(ppm)	(sec)	(ppm)	(sec)	(ppm)		(%)		(s)
ZERO	0										
Calibration Gas #1	500	5.4	477.8	5.4	478.5	5.4	478.9	21.6	4.3%	Yes	5.4

Datafield

Gas Sequence ID :	0	**Date/Time :**	12/6/2022 4:54:25 AM
Gas Manufacturer :	Intermountain	**Gas Lot Number :**	20-7421
Gas Expiration Date :	7/10/2024	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Datafield

Gas Sequence ID :	1	**Date/Time :**	12/6/2022 4:54:25 AM
Gas Manufacturer :	Intermountain	**Gas Lot Number :**	0_135-81
Gas Expiration Date :	11/10/2023	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Datafield

Project :	RES_SimiValley landfill	**Date/Time :**	12/6/2022 4:55:45 AM
Model Number :	INSPECTRA	**Serial Number :**	811121
Latitude :	34.0564088	**Longitude :**	-117.3072957
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Dec-06 04:56 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		**T90**	**Reading**	**T90**	**Reading**	**T90**	**Reading**	**Average Algebraic Difference**	**Calibration Precision**	**Calibration Precision < 10**	**Average Response Time**
	(ppm)	(sec)	(ppm)	(sec)	(ppm)	(sec)	(ppm)		(%)		(s)
ZERO	0										
Calibration Gas #1	500	5.5	490	5.3	491.7	5.3	492.2	8.7	1.7%	Yes	5.4

Datafield

Gas Sequence ID :	0	**Date/Time :**	12/6/2022 4:55:45 AM
Gas Manufacturer :	Intermountain	**Gas Lot Number :**	20-7421
Gas Expiration Date :	7/10/2024	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

DataField

Gas Sequence ID :	1	**Date/Time :**	12/6/2022 4:55:45 AM
Gas Manufacturer :	intermountain	**Gas Lot Number :**	0-135-81
Gas Expiration Date :	11/10/2023	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

DataField

Project :	RES_SimiValley landfill	**Date/Time :**	12/6/2022 4:53:04 AM
Model Number :	INSPECTRA	**Serial Number :**	1011221
Latitude :	34.0563993	**Longitude :**	-117.3072827
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Dec-06 04:54 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		T90	Reading	T90	Reading	T90	Reading	Average Algebraic Difference	Calibration Precision	Calibration Precision < 10	Average Response Time
	(ppm)	(sec)	(ppm)	(sec)	(ppm)	(sec)	(ppm)		(%)		(s)
ZERO	0										
Calibration Gas #1	500	6.8	466.5	5.9	470.2	5.8	471.3	30.7	6.1%	Yes	6.2

DataField

Gas Sequence ID :	0	**Date/Time :**	12/6/2022 4:53:04 AM
Gas Manufacturer :	intermountain	**Gas Lot Number :**	20-7421
Gas Expiration Date :	7/10/2024	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

DataField

Gas Sequence ID :	1	**Date/Time :**	12/6/2022 4:53:04 AM
Gas Manufacturer :	intermountan	**Gas Lot Number :**	0-135-81
Gas Expiration Date :	11/10/2023	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

DataField

Project :	RES_SimiValley landfill	**Date/Time :**	12/6/2022 4:51:40 AM
Model Number :	INSPECTRA	**Serial Number :**	881221
Latitude :	34.056366	**Longitude :**	-117.3073281
Test Status :	Completed	**Test Notes :**	Test successfully completed at 2022-Dec-06 04:52 using one span gas.

		Measurement #1		Measurement #2		Measurement #3					
GAS USED		**T90**	**Reading**	**T90**	**Reading**	**T90**	**Reading**	**Average Algebraic Difference**	**Calibration Precision**	**Calibration Precision < 10**	**Average Response Time**
	(ppm)	**(sec)**	**(ppm)**	**(sec)**	**(ppm)**	**(sec)**	**(ppm)**		**(%)**		**(s)**
ZERO	0										
Calibration Gas #1	500	5.4	486.3	5.4	488	5.4	488	12.6	2.5%	Yes	5.4

DataField

Gas Sequence ID :	0	**Date/Time :**	12/6/2022 4:51:40 AM
Gas Manufacturer :	Intermountain	**Gas Lot Number :**	20+7421
Gas Expiration Date :	7/10/2024	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

Gas Sequence ID :	1	**Date/Time :**	12/6/2022 4:51:40 AM
Gas Manufacturer :	Intermountain	**Gas Lot Number :**	0-135-81
Gas Expiration Date :	11/10/2023	**Bottle Pressure :**	1000
Misc Ref No :	N/A	**Technical Name :**	N/A
UN# :	N/A	**Cylinder ID :**	N/A

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

INTERMOUNTAIN SPECIALTY GASES
"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

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

Lot #	**30-7421**
Mfg. Date:	5/20/2020
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	NY02268

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

Analysis By:	Tony Janquart
Title:	Quality Assurance Manager
Certificate Date:	5/20/2020


Service
INC
Concentration (Mole%) Accuracy
20.9% Oxygen
Bal. Nitrogen
@ 70°F and 1,000 PSIG
Lot#: 20-7421
P/N:01-100
103 L
Irvine, CA 92614
201-8150 Fax (949) 757-0363
103-01-100
103 L

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CERTIFICATE OF ANALYSIS

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

Lot # 17-6074

Mfg. Date: 10/16/2017

Parent Cylinder ID Number: 17161

Method of Preparation:
Gravimetric/Pressure Transfilled

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

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


Service
INC.
Accuracy
+/- 5%
Balance
@ 70°F and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Irvine, CA 92614
Fax (949) 757-0363
103-23-0025
Methane 25 ppm/
Nitrogen
103 L
Lot #
17-6074

INTERMOUNTAIN SPECIALTY GASES

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800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

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

Lot # 17-6074

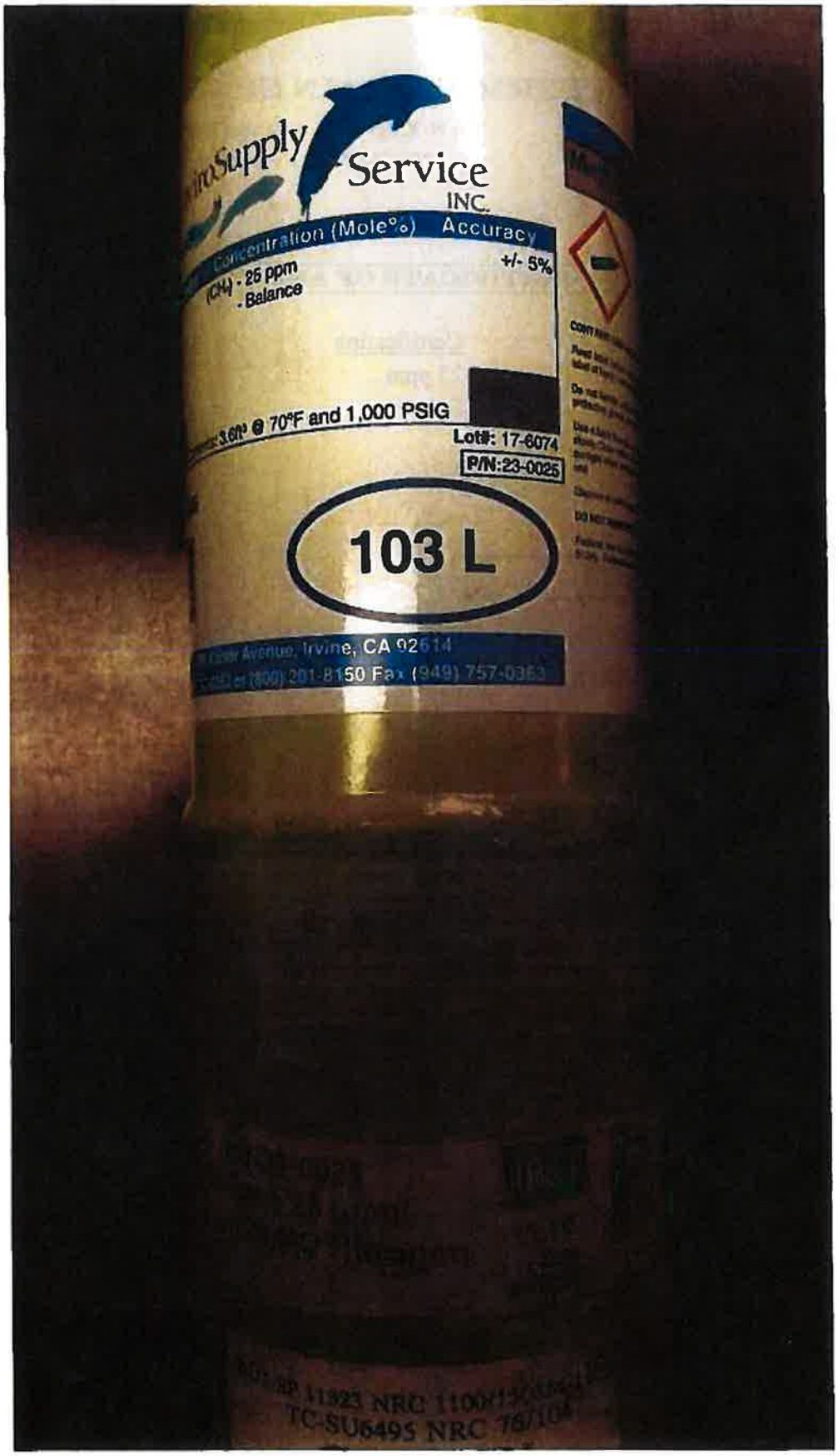
Mfg. Date: 10/16/2017

Parent Cylinder ID Number: 17161

Method of Preparation:
Gravimetric/Pressure Transfilled

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

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


Service
INC.
Concentration (Mole%)
Accuracy
+/- 5%
(CH4) - 25 ppm
. Balance
@ 70°F and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Irvine, CA 92614
(949) 757-0363
TC-SU6495 NRC 78/10

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CERTIFICATE OF ANALYSIS

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

Lot # 20-7497

Mfg. Date: 7/10/2020
Expiration Date:
Transfill Date: see cylinder

Parent Cylinder ID Number: TWC001763

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

Analysis By: Tony Janquart
Title: Quality Assurance Manager
Certificate Date: 7/10/2020


Service
INC.
Accuracy
+/- 2%
Lot#: 20-7497
P/N:23-0500
103 L
103 L
COA
Lot #
20-7497

INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	500 ppm	± 2%
Air	Balance	

Lot # 19-6955

Mfg. Date: 7/24/2019

Parent Cylinder ID Number: 001763

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 7/24/2019


Service
INC
Accuracy
+/- 2%
Lot#: 19-6955
P/N:23 0500
103 L
Methane
103 L
COA
Lot #
19-6955
CAUTION
PENALTY UP
FINE AND

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Nampa, ID 83687 (USA)
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www.isgases.com

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CERTIFICATE OF ANALYSIS

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

Lot # 18-6641

Mfg. Date: 12/18/2018
Expiration Date:
Transfill Date: see cylinder

Parent Cylinder ID Number: 001763

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

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

Analysis By: Tony Janquart
Title: Quality Assurance Manager
Certificate Date: 12/18/2018


Supply
Service
Concentration (Mole%)
Accuracy
- 500 ppm
: Balance
+/- 2%
@ 70°F and 1,000 PSIG
Exp Date
103 L
Irvine, CA 92614
(949) 757-0363
103 L
COA
Lot #
18-5641
1100/1505M-1102

Nor

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

46400 Continental Drivve
Chesterfield ,MI 48047

Cust Number 07152
Order Number 62891146
PO Number 04548169

Lot Number	9-326-80	Date on Manufacture	12/31/2019
Norlab Part#	J1971500PA	Expires	12/2022
Cylinder Size	103 Liter	Analytical Accuracy	+/- 2 %
Number of Cyl	1		

Customer Part# N/A

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

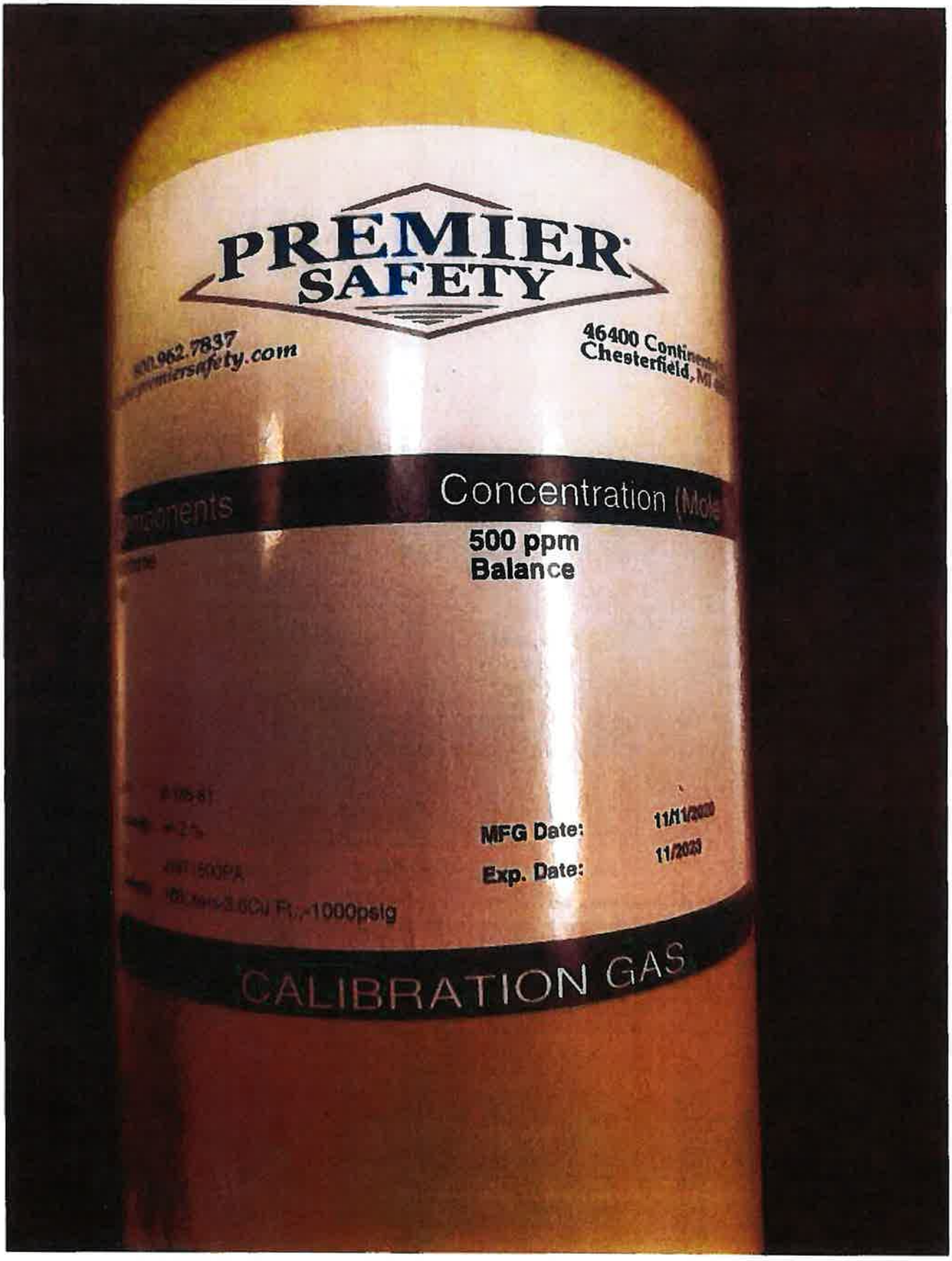
Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

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

NIST Traceable Numbers 20150519 and 20180224

Approved: _____ Date Signed: 12/31/2019

David Reed
Lab Technician


PREMIER
SAFETY
46400 Contin
Chesterfield, MI
Concentration (Mole
500 ppm
Balance
MFG Date:
11/11/2020
Exp. Date:
11/2025
CALIBRATION GAS

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

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 69679439
PO Number 04906817

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

Customer Part# N/A

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

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

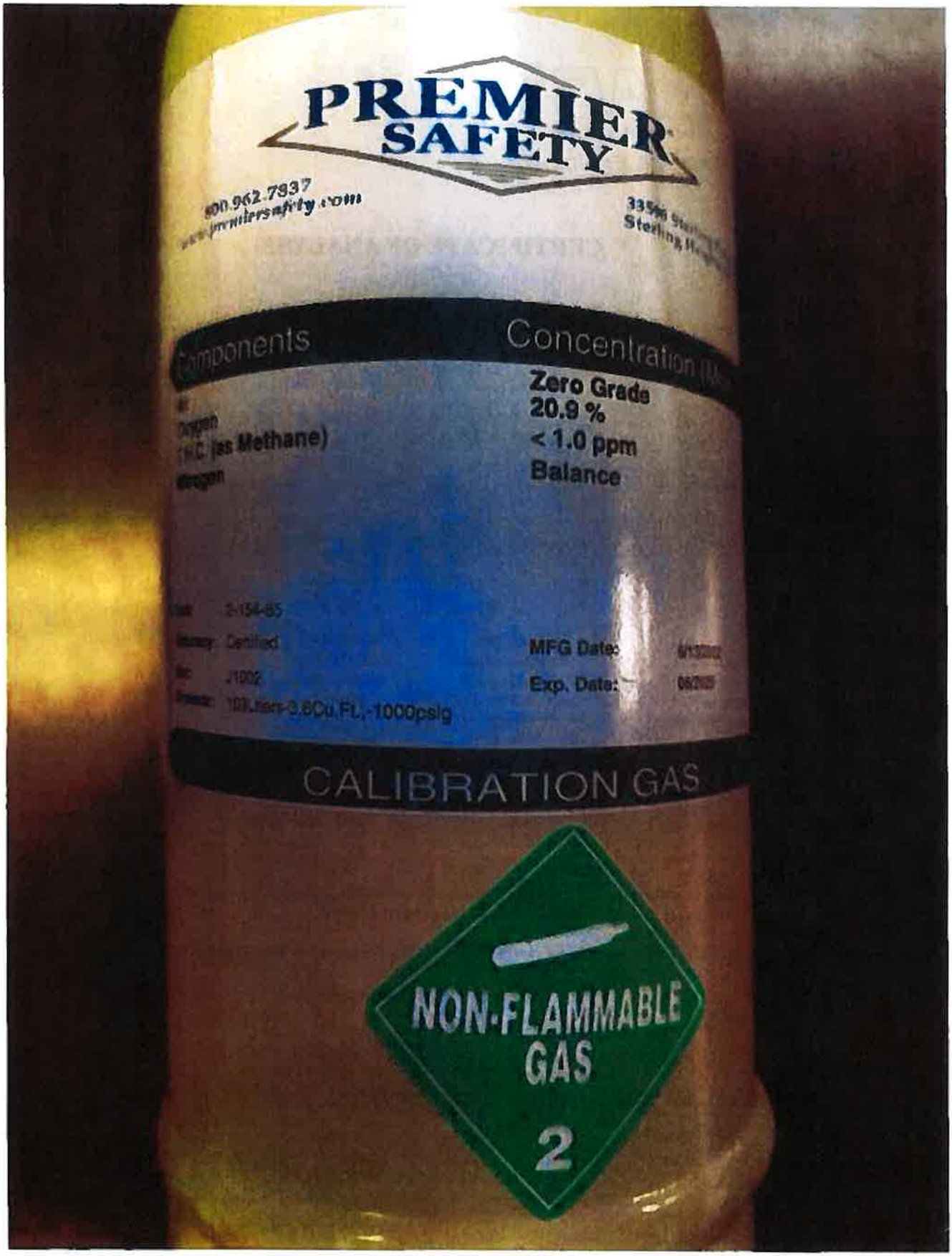
Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

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

NIST Traceable Numbers are available upon request.

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

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


PREMIER
SAFETY
800.962.7937
Components
Concentration
Zero Grade
20.9 %
< 1.0 ppm
Balance
MFG Date:
Exp. Date:
CALIBRATION GAS
NON-FLAMMABLE
GAS
2

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

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 69671309
PO Number 08361523

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

Customer Part# N/A

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

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

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

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

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

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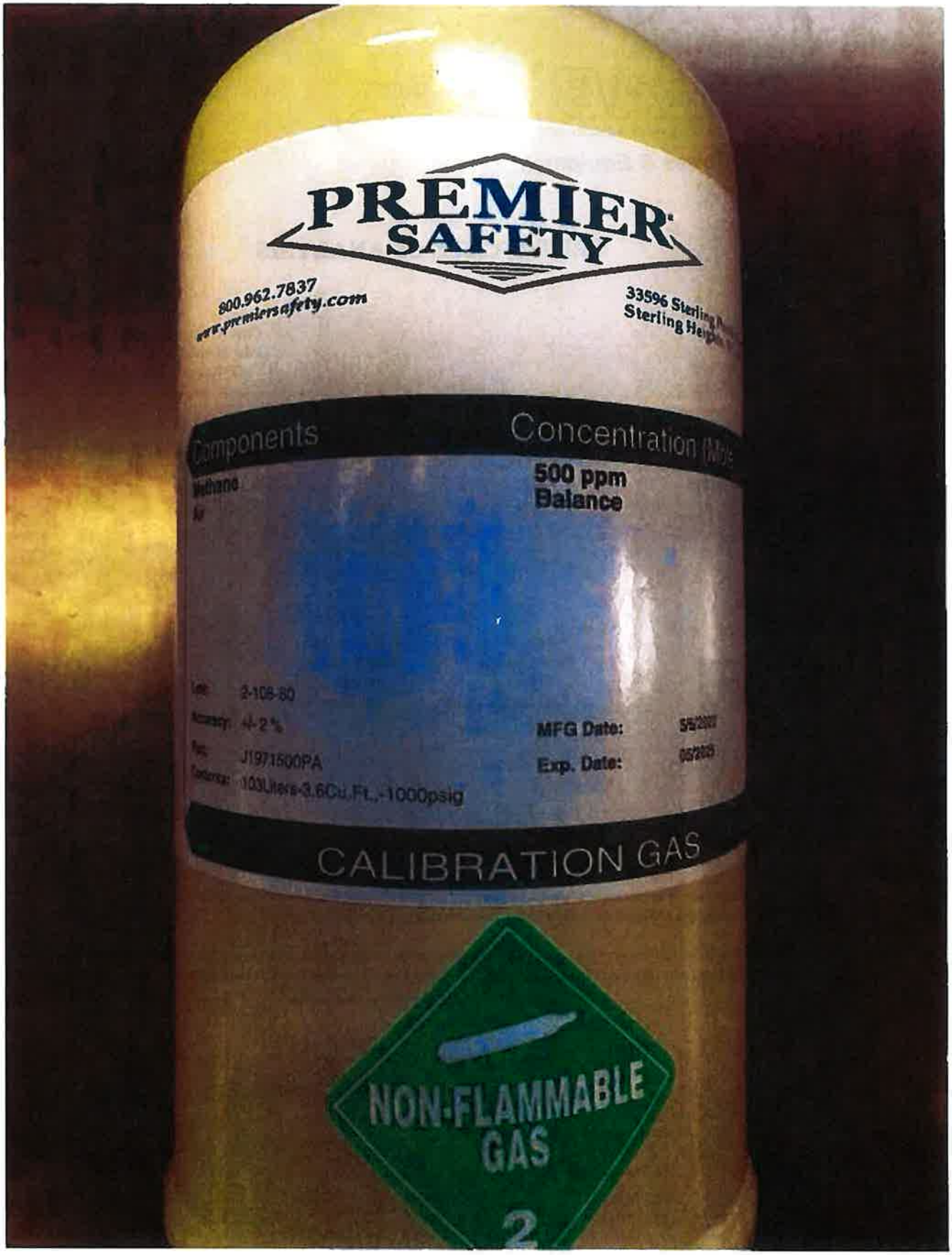
PREMIER
SAFETY
800.962.7837
www.premiersafety.com
Components
Concentration
500 ppm
Balance
MFG Date:
Exp. Date:
CALIBRATION GAS
NON-FLAMMABLE
GAS
2

xerox

cpavelch

TVA facotory cal logs for 4th qtr 2022.pdf

02/23/23 02:59 PM

Xerox® AltaLink® C8155 MFP

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #1

SERIAL NUMBER: 16320832

TECHNICIAN: [signature] DATE: 10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.46	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS.(ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Van #2

SERIAL NUMBER: 7784545

TECHNICIAN: [signature] DATE: 10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	501	+/- 125
10000	10000	10,003	+/- 2500
< 1	ZERO GAS	0.69	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #3

SERIAL NUMBER: 15865884

TECHNICIAN: [signature] DATE: 10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.64	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #C1

SERIAL NUMBER: 16319830

TECHNICIAN: [signature] DATE: 10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,003	+/- 2500
< 1	ZERO GAS	0.59	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Van #5

SERIAL NUMBER: 4919480

TECHNICIAN: [signature] DATE: 10-4-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	101	+/- 25
500	500	500	+/- 125
10000	10000	10,011	+/- 2500
< 1	ZERO GAS	0.69	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: Res Vat #6

SERIAL NUMBER: 0720723626

TECHNICIAN: [signature] DATE: 10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,100	+/- 2500
< 1	ZERO GAS	0.44	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #7

SERIAL NUMBER: 0720723627

TECHNICIAN: MM DATE: 10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.64	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #9

SERIAL NUMBER: 053211380(

TECHNICIAN: [signature] DATE: 10-1-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.54	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM MM

Date: 11-5-22 **Time:** 0530

Model # TVA 1000

Serial # #1 16320832

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.3 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-1-22	Time required to attain 90% of Cal Gas ppm: 1. 6; 2. 6; 3. 7
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 6.3
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

465

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM JM

Date: 11-5-22 **Time:** 0545

Model # TVA 1000

Serial # #2 784545

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.5 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-1-22	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 5 2. 5 3. 5 Average 5.0
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

465

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-5-22 **Time:** 0600

Model # TVA 1000

Serial # 158058844

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.2 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-1-22	Time required to attain 90% of Cal Gas ppm: 1. 6 2. 6 3. 5
Factory calibration record w/instrument within 3 months	Pass / Fail	Average: 5.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-5-22 **Time:** 0615

Model # TVA 1000

Serial # #1 16319830

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.0 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-1-22	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 5
		2. 5
		3. 6
		Average 5.3
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM

Date: 11-5-22 **Time:** 0630

Model # TVA 1000

Serial # #5 4919480

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	Pass / Fail	CALIBRATION CHECK
Reading following Ignition	2.2 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100%
Leak test	Pass / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	Pass / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	Pass / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-1-22	Time required to attain 90% of Cal Gas ppm: 1. 6; 2. 6; 3. 5
Factory calibration record w/instrument within 3 months	Pass / Fail	Average: 5.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-5-22 **Time:** 0645

Model # Tva 1000

Serial # #6 0720723626

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.6 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-1-22	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 5
		2. 5
		3. 6
		Average 5.3
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

465

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-5-22 **Time:** 0700

Model # TLA 1000

Serial # #7 0720723627

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.1 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-1-22	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. 6
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 60
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-5-22 **Time:** 0715

Model # TVA-1000

Serial # #9 0532-113X01

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	21 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-1-22	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 6
		2. 7
		3. 7
		Average 6.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to Cloy gas.

Comments: _____

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