First Quarter 2025 Community Air Monitoring Report, Chiquita Canyon Landfill

Chiquita Canyon Landfill
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Castaic, California 91384

SCS ENGINEERS

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This First Quarter 2025 Community Air Monitoring Report for the Chiquita Canyon Landfill, located at 29201 Henry Mayo Drive, Castaic, California, was prepared and reviewed by the following:

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1.0 CHIQUITA CANYON AIR MONITORING SUMMARY

This First Quarter 2025 Community Air Monitoring Report (Report) has been prepared by SCS Engineers (SCS) in collaboration with Chiquita Canyon Landfill (CCL or Site), the Los Angeles County Department of Public Health (DPH), and the Los Angeles County Department of Public Works (PW), regarding implementation of the Community Air Monitoring Program (CAMP or Program), dated 2019. The CAMP presents an overview of quarterly air monitoring reporting compiled from continuous air monitoring stations in the community surrounding the Site, and monthly discrete sampling at community air monitoring station locations during the reporting period.

The CAMP was prepared by SCS, in consultation with CCL, DPH and PW, in accordance with the 2019 Community Air Monitoring Plan (CAM Plan), which was prepared to identify locations, parameters, and procedures for implementation of continuous air monitoring in the community surrounding the Site. The CAMP was designed to incorporate the requirements of Condition 68 of CCL's Conditional Use Permit (CUP) issued by the County of Los Angeles (County).

As of October 2022, the CAMP is comprised of a network of twelve air monitoring stations (MS or Stations) with seven stations located throughout the community surrounding the Site (MS-06 through MS-12) and five stations located on-site (MS-01 through MS-05), around the Site perimeter (the Site perimeter air monitoring stations serve as a reference for any off-site exceedances that may be detected). The air monitoring stations continuously monitor particulate matter with an aerodynamic diameter of ten (10) micrometers or less (PM_{10}), particulate matter with an aerodynamic diameter of 2.5 micrometers or less ($PM_{2.5}$), and hydrogen sulfide (H_2S); as well as wind direction and wind speed.

The purpose of this report is to comply with the quarterly reporting requirements outlined in the CAMP and Condition 68 of the CUP. This report includes the following components:

- DPH data evaluation of monthly reports and/or quarterly analysis and evaluation of potential health and safety impacts on nearby residents, schools, and centers of employment;
- SCS determination of any exceedances of the applicable reporting thresholds; and
- SCS evaluation and recommendations for Program implementation

This section outlines the monitoring thresholds and provides additional detail for the analyses conducted during the reporting period.

1.1 MONITORING LOCATIONS

A map showing the location of the monitoring stations is included as **Figure 1**. As shown on **Figure 1**, MS-01 through MS-05 are located around the perimeter of the Site. MS-06 through MS-12 are located in the community surrounding the Site and are the subject of this report.

1.2 CONTINUOUS MONITORING

Table 1 summarizes the air quality exposure levels or standards that are used as a basis for analyzing the continuous air monitoring data at the community stations, MS-06 through MS-12.

The recommended *reporting analysis thresholds* for each of the continuously monitored air pollutants are highlighted in **bold text** in **Table 1**. The air monitoring stations that are deployed around the Site and in the community have detection limits that are well below the recommended

notification levels (i.e., they can detect ambient concentration levels that are much lower than the threshold levels recommended below). Short-term fluctuations in the ambient concentration of the monitored air pollutants around the Site and in the community are expected and will be reflected in the data.

Table 1. Summary of Air Quality Standards for Selected Air Pollutants

Air Quality Standard		$PM_{2.5}$	PM_{10}	H_2S
CAAQS	1-Hour Average	- -	- -	**0.03 ppm**
	24-Hour Average	- -	50 µg/m³	- -
FEIR	24-Hour Average	**2.5 µg/m³**	**2.5 µg/m³**	- -
SCAQMD	2-Hour Average	**25 µg/m³**		- -

Bold Text – Reporting Threshold

It should be noted that the reporting analysis thresholds are limited to the off-site monitoring stations. This means that if the thresholds are triggered on any off-site monitoring station (MS-06 through MS-12), additional analysis will be required, including review of data collected at the on-site monitoring stations (MS-01 through MS-05) during the exceedance event.

The continuous monitoring data for the entire quarter is formatted into the time increments that match the reporting analysis thresholds listed in the table above, as is presented in Appendix A. Within Appendix A, please refer to **Appendix A, Table A-1** for the H_2S 1-hour exceedances, **Table A-2** for 24-hour $PM_{2.5}$ and PM_{10} exceedances, and **Table A-3** for 2-hour $PM_{2.5}$ and PM_{10} exceedances.

1.3 DISCRETE SAMPLING

On a monthly basis, a total of five air samples are collected at community monitoring stations. Three samples are collected in the community surrounding the Site, with two samples collected from either side of the CCL generally in line with the community monitor sampling locations for each month. The overall intent is to cover all monitoring stations within the surrounding community every quarter for the duration of the CAMP.

To achieve this goal, SCS has implemented the following monthly sampling rotation with three community monitoring locations grouped together with two CCL monitoring locations in line from either side of the landfill:

Rotation 1: Samples collected from northwest of CCL (MS-07, MS-08, and MS-12) with in line CCL samples located at MS-04 and MS-03.

Rotation 2: Samples collected from northeast of CCL (MS-06, MS-09, and MS-10) with in line CCL samples located at MS-01 and MS-02.

Rotation 3: Samples collected from northwest and southeast of CCL (MS-08, MS-11, and MS-12) with in line CCL samples located at MS-04 and MS-05.

Samples are collected and analyzed for landfill gas (LFG) components listed in Table 1 of South Coast Air Quality Management District (SCAQMD) Rule 1150.1, the SCAQMD rule for monitoring emissions from landfills. Those chemicals are found in **Table 2** below.

Table 2. SCAQMD Rule 1150.1 Toxic Air Contaminant List

SCAQMD Rule 1150.1 Table 1 Constituents			
Benzene	1,1-Dichloroethane	Tetrachloroethylene	Trichloromethane
Benzyl chloride	1,2-Dichloroethane	Tetrachloromethane	Vinyl Chloride
Chlorobenzene	1,1-Dichlroethene	Toluene	Xylene
1,2-Dibromoethane	Dichloromethane	1,1,1-Trichloroethane	
Dichlorobenzene	Hydrogen Sulfide	Trichloroethylene	

For discrete sampling, reporting analysis thresholds chosen by DPH are the California Office of Health Hazard Assessment (OEHHA) Reference Exposure Levels (RELs) for Acute Hazard Index Target Organ Systems (Table 6.1 from the February 2015 Air Toxics Hot Spots Program Guidance Manual). By definition, an acute REL is an exposure that is not likely to cause adverse health effects in a human population, including sensitive subgroups, exposed to that concentration (in units of micrograms per cubic meter or $\mu g/m^3$) for the specified exposure duration on an intermittent basis.

2.0 QUARTERLY AIR MONITORING RESULTS

This section discusses the continuous monitoring and discrete sampling results for the reporting period.

2.1 CONTINUOUS MONITORING RESULTS

DPH has access to all continuous monitoring data recorded from the off-site monitors, which is reviewed routinely and on an as-needed basis if recorded values exceed the reporting thresholds in **Table 1.** If DPH observes reportable exceedances, DPH may request the on-site monitoring data (including wind direction and wind speed data), for the purposes of DPH's evaluations of reported exceedances. Upon request, SCS will provide DPH with the continuous monitoring data for all on-site monitors, for the time period of the exceedance plus one time increment prior to, and after, the exceedance start time. Any recommendations regarding the health and safety impact on nearby residents, schools and centers of employment or evaluation(s) of potential sources of air pollutants impacting ambient air quality made by DPH are included in this report.

During the reporting period, there were 0 exceedance events for H_2S over a 1-hour averaging period. There were 15 exceedance events for $PM_{2.5}$ and 11 for PM_{10} over a 2-hour averaging period. There were 2 exceedance events for $PM_{2.5}$ and 12 PM_{10} for over a 24-hour averaging period. Please note that the 24-hour PM exceedance events lasted multiple days and resulted in a 24-hour PM exceedance event occurring for a large portion of the quarter. These exceedances occurred at off-site stations where station(s) exceeded one or more reporting thresholds. Considering many PM exceedances at offsite exceedances occurred in the opposite direction of prevailing winds, it's possible that a local source other than the landfill contributed to these exceedances.

Please note that one or more monitors can have an exceedance detection during a single exceedance event, based on the stations' proximity to other stations, wind direction, and wind

speed. A summary of each exceedance that occurred at the off-site monitoring stations during the reporting period can be found in **Appendix A**.

SCS has provided DPH with corresponding on-site data for periods where the off-site monitoring stations recorded an exceedance of the thresholds listed in **Table 1** above. The data was shared in emails sent on January 14, February 14, and March 12, 2025. As of the date of this report, SCS have not received any comments from DPH regarding the on-site continuous monitoring data.

Please note, due to the size of the full dataset and in order to reduce the amount of physical pages of this quarterly report, a link to the 1-hour data for the continuous monitoring at the off-site locations can be found in **Appendix B.** Since the continuous monitoring data presented in this report includes only a summary of exceedance events, the complete 1-hour data set is included as a separate, linked attachment.

2.2 DISCRETE SAMPLING RESULTS

During the First Quarter 2025, monthly samples were taken in January, February, and March 2025. A full description of the detected constituents along with their concentrations was included in the monthly reports which were submitted to DPH, PW, and the Site on January 14, February 14, and March 12, 2025 respectively. During the reporting period, there were zero (0) community monitoring stations that had exceedances of discrete sampling reporting thresholds, per **Appendix C, Table C-1**.

As of the date of this report, SCS have not received any comments from DPH regarding the off-site discrete sampling data.

The results of the monthly discrete sampling events conducted in January, February, and March are found in **Appendix C**. **Appendix C, Table C-1** includes the discrete sampling reporting thresholds. Based on the reporting thresholds outlined in Table C-1, there were no exceedances recorded in the first quarter sampling events. The complete laboratory analytical reports are also included within **Appendix D**.

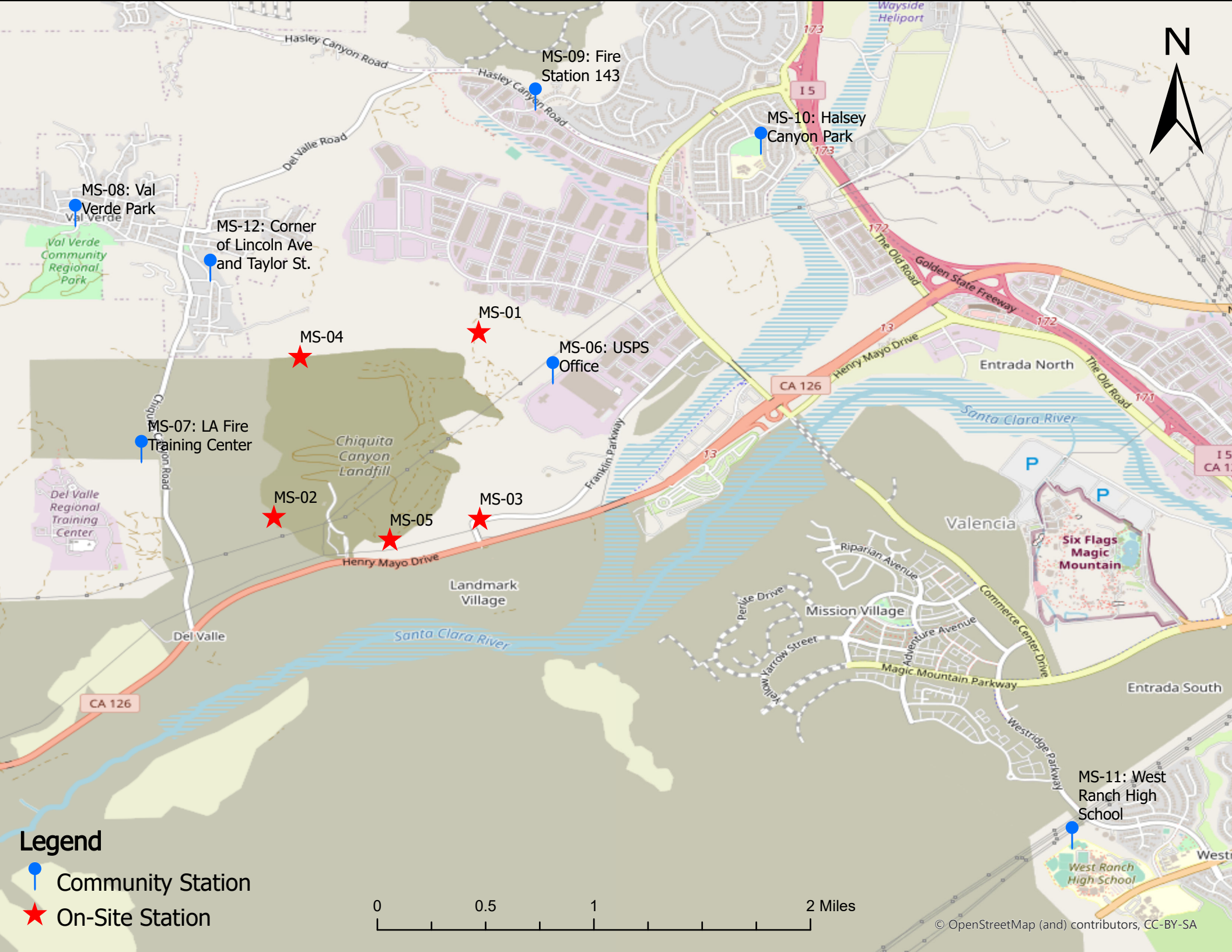
The laboratory results were analyzed in conjunction with the continuous air monitoring data collected during the sampling event. The 1-hour continuous monitoring data collected at each monitoring station that was used as part of the discrete sampling analysis is located in **Appendix B.** Please note that only the off-site discrete sampling events and the associated 1-hour monitoring data are included in this quarterly report.

3.0 SCS CAMP RECOMMENDATIONS

This section describes any recommendations by SCS to the CAMP to improve the overall efficiency of the air monitoring program. There were no changes for the program this quarter. All quarterly recommendations/observations will be compiled and addressed in the Annual Community Air Monitoring Report.

Figure 1

Chiquita Canyon CAMP Map of Monitoring Stations


N
MS-09: Fire Station 143
MS-10: Halsey Canyon Park
MS-08: Val Verde Park
MS-12: Corner of Lincoln Ave and Taylor St.
MS-01
MS-04
MS-06: USPS Office
MS-07: LA Fire Training Center
MS-02
MS-05
MS-03
MS-11: West Ranch High School
Legend
Community Station
On-Site Station
0
0.5
1
2 Miles
Hasley Canyon Road
Del Valle Road
Wayside Heliport
I 5
The Old Road
Golden State Freeway
Henry Mayo Drive
CA 126
Entrada North
Santa Clara River
Chiquita Canyon Landfill
Franklin Parkway
Chiquita Canyon Road
Val Verde
Val Verde Community Regional Park
Del Valle Regional Training Center
Del Valle
Landmark Village
Valencia
Six Flags Magic Mountain
Riparian Avenue
Mission Village
Perlite Drive
Yarrow Street
Adventure Avenue
Commerce Center Drive
Magic Mountain Parkway
Westridge Parkway
Entrada South
West Ranch High School
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Appendix A

First Quarter 2025 Community Air Monitoring Station

Continuous Monitoring Data Exceedances

Table A-1

1-Hour Average H_2S Community Monitoring Station Data

Table A-1

1-Hour Average H2S Community Monitoring Station Data

Monitoring Station	Event #	Time	H2S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in Hg	°F	%

No Exceedances

Table A-2

24-Hour Average $PM_{2.5}$ and PM_{10} Community Monitoring Station Data

Table A-2
24-Hour Average PM2.5 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM2.5	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-12	1	2025-01-01	2.67	3.06	323.7	28.85	51.7	44.4
MS-09	2	2025-01-03	5.13	2.26	312.9	28.63	51.7	47.2
MS-12	2	2025-01-03	5.45	2.73	328.7	28.81	51.6	47.9
MS-11	2	2025-01-03	5.54	2.1	172.5	28.48	54.8	46.3
MS-12	2	2025-01-04	2.59	4.91	341.4	28.86	52.5	48
MS-11	3	2025-01-07	4.3	7.49	22.8	28.46	57.3	37.2
MS-12	3	2025-01-07	3.97	7.1	322.6	28.79	58.7	36.7
MS-09	3	2025-01-07	3.6	7.13	33.7	28.62	58.5	36.2
MS-12	3	2025-01-08	5.01	6.17	311.6	28.92	56.9	19.5
MS-07	3	2025-01-08	2.52	14.92	58.7	28.84	57.5	18.4
MS-08	3	2025-01-08	3.09	4.89	54.1	28.83	55.6	20.6
MS-11	3	2025-01-08	5.24	5.7	28.2	28.59	55.8	19.5
MS-09	3	2025-01-08	5.73	6.5	35.9	28.75	57	19.2
MS-12	4	2025-01-11	2.66	4.89	330.9	28.82	54.1	29.5
MS-11	5	2025-01-17	5.23	1.98	189.6	28.58	46.3	63.6
MS-09	5	2025-01-17	4.37	2.44	308.4	28.74	44	65.7
MS-12	5	2025-01-17	4.44	2.6	330.1	28.92	43.6	66
MS-12	5	2025-01-18	7.25	2.36	329.5	28.95	45.3	73.9
MS-09	5	2025-01-18	5.97	2.27	334.7	28.77	45.7	73.8
MS-11	5	2025-01-18	9.38	1.89	178.7	28.62	47.4	75.2
MS-09	5	2025-01-19	4.47	2.42	305.9	28.72	44.5	72.6
MS-12	5	2025-01-19	5.53	2.7	333.7	28.9	44.3	74.5
MS-11	5	2025-01-19	7.2	1.89	193.3	28.56	47.1	74.3
MS-11	5	2025-01-20	9.83	5.29	48.2	28.64	50.8	43.4
MS-12	5	2025-01-20	9.25	5.26	314.4	28.98	51.5	43.3
MS-06	5	2025-01-20	2.56	7.57	4.9	29.04	52	43
MS-07	5	2025-01-20	2.75	12.38	48.1	28.9	51.5	42.7
MS-09	5	2025-01-20	7.52	5.21	37.3	28.8	51.2	42.7
MS-08	5	2025-01-20	3.26	4.28	53.5	28.89	51.4	42.7
MS-09	6	2025-01-22	4.43	4.85	21.1	28.87	58.2	13.1
MS-11	6	2025-01-22	6.28	3.79	30.6	28.71	59.4	11.1
MS-12	6	2025-01-22	4.56	4.83	329.3	29.04	56	14.3
MS-09	6	2025-01-23	4.46	6.52	27.6	28.91	61.7	9.1
MS-12	6	2025-01-23	3.35	6.36	323.2	29.09	60.8	9.4
MS-10	7	2025-01-25	4.72	3.18	232.7	28.73	46.7	56.4
MS-09	7	2025-01-25	3.92	3.31	213.6	28.45	47.1	51.6
MS-11	7	2025-01-25	5.21	3.17	188.1	28.29	48.5	54.1
MS-12	7	2025-01-25	4.31	3.2	179	28.63	46.1	52.2
MS-11	7	2025-01-26	2.78	2.63	167.7	28.42	44.3	88.7
MS-10	7	2025-01-26	2.86	1.71	264	28.87	45	88.8
MS-11	8	2025-01-28	3.15	1.8	168.2	28.46	46.8	64.5
MS-12	8	2025-01-28	2.92	2.63	337.5	28.79	44.2	72.1
MS-10	8	2025-01-28	3.14	1.92	307.9	28.9	44.7	70.2

Table A-2
24-Hour Average PM2.5 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM2.5	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-09	8	2025-01-29	5.83	2.46	302.6	28.68	43.8	80.1
MS-12	8	2025-01-29	7.49	2.43	329.9	28.86	43.8	81
MS-10	8	2025-01-29	7.62	1.84	303.3	28.97	44.7	79.4
MS-11	8	2025-01-29	8.58	1.86	180.1	28.52	45.8	78
MS-09	8	2025-01-30	5.83	1.75	4.3	28.79	45.2	81.8
MS-10	8	2025-01-30	7.82	1.33	282	29.08	45.8	81
MS-12	8	2025-01-30	7.15	1.85	303.7	28.96	45.6	83
MS-11	8	2025-01-30	9.04	1.54	170.1	28.63	46.2	82.7
MS-11	8	2025-01-31	10.04	1.82	143.6	28.65	48.9	75.6
MS-12	8	2025-01-31	6.25	1.98	323	28.98	48.3	74.9
MS-09	8	2025-01-31	5.01	1.78	308.7	28.8	48	74
MS-10	8	2025-01-31	6.43	1.54	267.9	29.09	49	72.2
MS-12	8	2025-02-01	4.09	2.62	343.6	28.88	54.3	68
MS-11	8	2025-02-01	5.15	1.96	166.5	28.55	56.9	62.9
MS-10	8	2025-02-01	4.2	2.03	284.4	28.99	54.4	67.4
MS-09	8	2025-02-01	2.8	2.47	294	28.7	54.2	65.9
MS-10	8	2025-02-02	5.05	1.67	35	28.93	56.7	70.3
MS-11	8	2025-02-02	6.23	2.05	170.1	28.5	58.7	69
MS-12	8	2025-02-02	5.61	2.5	341.5	28.83	56.1	72.8
MS-09	8	2025-02-02	3.58	2.28	326.2	28.65	56.5	70.5
MS-11	8	2025-02-03	9	2.26	182.1	28.38	57.3	66.5
MS-10	8	2025-02-03	6.65	1.95	333.4	28.82	55.1	67.9
MS-12	8	2025-02-03	5.67	2.37	337.4	28.71	54.5	68.8
MS-09	8	2025-02-03	4.79	2.38	321	28.53	54.9	64.4
MS-10	8	2025-02-04	3.05	3.14	261.4	28.84	50.9	79.5
MS-12	8	2025-02-04	2.57	2.66	268.5	28.73	50.2	81
MS-11	8	2025-02-04	3.18	2.63	190.7	28.4	51.7	80.2
MS-12	9	2025-02-10	3.77	2.5	295.9	28.77	48.4	69.2
MS-09	9	2025-02-10	3.15	2.96	234.9	28.69	55.3	59.7
MS-11	9	2025-02-10	4.77	2.37	172.2	28.44	50	65.5
MS-10	9	2025-02-10	4.18	2.19	238.5	28.88	48.8	68.4
MS-12	9	2025-02-11	2.8	2.19	329.3	28.68	49.1	67.9
MS-11	9	2025-02-11	2.89	1.97	228.2	28.35	50.2	59.5
MS-10	9	2025-02-11	2.91	1.76	265.8	28.79	50.5	63.4
MS-11	10	2025-02-14	3.36	4.93	205.1	28.5	54.1	72.1
MS-10	10	2025-02-14	3.4	5	249.6	28.94	54.6	71.7
MS-12	10	2025-02-14	2.7	5.35	176.3	28.85	55.9	66.1
MS-10	11	2025-02-24	2.79	2.21	332.3	28.96	64.5	45.7
MS-11	11	2025-02-24	2.69	2.83	22.9	28.53	66.6	39.1
MS-12	12	2025-02-28	2.67	2.32	267.7	28.7	59.7	42.3
MS-10	12	2025-02-28	3.5	2.44	233	28.82	59.5	45
MS-11	12	2025-02-28	2.86	2.91	179.1	28.38	62.6	35.8
MS-09	12	2025-02-28	2.7	2.79	239	28.65	62.2	37.3

Table A-2
24-Hour Average PM2.5 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM2.5	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-11	12	2025-03-01	7.44	2.64	167.1	28.39	55.8	76.4
MS-10	12	2025-03-01	6.64	3.15	224	28.83	56.5	75.5
MS-09	12	2025-03-01	5.47	2.89	235.3	28.66	55.9	75.4
MS-12	12	2025-03-01	5.78	2.69	174.3	28.71	56.2	75.6
MS-11	12	2025-03-02	3.05	3.12	187.8	28.47	51.8	72.3
MS-09	12	2025-03-02	2.57	4.27	236.7	28.75	50.9	74.3
MS-10	12	2025-03-02	3.19	5.02	242.8	28.92	51.6	74.1
MS-12	12	2025-03-02	2.74	3.53	174	28.8	51.4	75
MS-10	13	2025-03-04	3.99	2.26	233.8	29	54	62.6
MS-09	13	2025-03-04	3.43	2.56	288.6	28.83	53	64
MS-12	13	2025-03-04	3.53	2.44	5.8	28.88	52.3	67.2
MS-11	13	2025-03-04	4.04	2.36	198.4	28.56	53.6	62
MS-11	13	2025-03-05	3.73	1.31	222.3	28.37	48.5	88.8
MS-10	13	2025-03-05	3.18	1.53	243.5	28.82	48.6	87.6
MS-12	13	2025-03-05	2.64	1.51	225.2	28.7	48.4	88.3
MS-12	14	2025-03-15	2.56	3.22	322.7	28.83	55.1	60.2
MS-10	14	2025-03-15	2.62	2.09	310.5	28.93	50.7	69.4
MS-11	14	2025-03-16	4.77	1.95	185.3	28.56	52.5	69.2
MS-12	14	2025-03-16	3.68	2.43	331.2	28.88	50.9	72.1
MS-10	14	2025-03-16	4.09	1.71	295.2	29	51.5	71.1
MS-09	14	2025-03-16	3.46	2.26	310.4	28.83	49.8	73
MS-10	14	2025-03-17	4.67	3.42	300.7	28.95	50.6	79.6
MS-09	14	2025-03-17	3.87	3.13	283.4	28.78	50	78.9
MS-12	14	2025-03-17	4.09	3.17	248.2	28.82	50.3	79.3
MS-11	14	2025-03-17	5.36	2.57	190.2	28.5	51.5	77.3
MS-06	15	2025-03-22	3.08	3.09	253.5	28.77	60.7	55.8
MS-11	15	2025-03-23	3.76	2.83	96.8	28.43	65.4	53.3
MS-06	15	2025-03-23	4.05	4.53	309.4	28.8	63.8	57.2
MS-10	15	2025-03-23	3.23	2.81	52.2	28.86	65	55.3
MS-12	15	2025-03-23	2.81	3.38	328	28.75	62	61.6
MS-12	15	2025-03-24	2.64	3.09	334.4	28.8	66.7	58
MS-11	15	2025-03-24	2.62	2.2	176.1	28.48	70	49.5
MS-10	15	2025-03-24	3.03	1.89	48.9	28.9	67.4	57.4
MS-06	15	2025-03-24	3.69	2.8	251.5	28.84	67.2	58
MS-06	15	2025-03-25	4.35	3.63	238	28.77	64.4	62.1
MS-10	15	2025-03-25	3.88	2.41	203.5	28.83	64.5	62.3
MS-12	15	2025-03-25	3.29	2.77	227.5	28.73	64.9	62
MS-11	15	2025-03-25	2.93	2.09	171.9	28.41	67.4	56.7
MS-11	15	2025-03-26	7.01	1.69	226.6	28.47	54.2	88.1
MS-09	15	2025-03-26	5.03	2.48	259.1	28.74	54.4	84.7
MS-06	15	2025-03-26	7.38	3.47	243	28.84	55.1	85.6
MS-12	15	2025-03-26	5.69	1.93	235.8	28.79	55	85.4
MS-10	15	2025-03-26	7.52	2.43	249.3	28.9	55.4	85

Table A-2
24-Hour Average PM2.5 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM2.5	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-11	15	2025-03-27	2.88	1.6	233.9	28.47	55.6	83.6
MS-10	15	2025-03-27	2.63	2.99	244.5	28.9	56.1	81.7
MS-06	15	2025-03-27	2.94	4.25	236.2	28.84	56.1	81.5
MS-11	15	2025-03-28	3.81	3.08	190.7	28.4	57.6	69.6
MS-09	15	2025-03-28	3.07	2.96	291.2	28.67	56.2	72.7
MS-06	15	2025-03-28	4.1	3.84	248.8	28.76	56.9	72.7
MS-08	15	2025-03-28	2.92	2.31	251	28.63	55.6	75.3
MS-12	15	2025-03-28	3.37	2.35	241.8	28.72	56.5	74.6
MS-10	15	2025-03-28	3.69	2.89	258.5	28.83	57	73
MS-09	15	2025-03-29	2.9	3.52	296.8	28.66	53.8	64.9
MS-08	15	2025-03-29	3.57	2.6	261.2	28.62	52.9	67.7
MS-11	15	2025-03-29	3.48	3.04	235.6	28.39	55.8	60.8
MS-06	15	2025-03-29	4.08	4.11	249.9	28.76	54.7	65.8
MS-10	15	2025-03-29	3.42	3.32	256.8	28.82	54.6	65.4
MS-12	15	2025-03-29	3.02	2.81	303.8	28.71	53.1	68

Table A-2
24-Hour Average PM10 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-09	1	2025-01-01	4.41	2.84	8.2	28.67	52.1	42.3
MS-11	1	2025-01-01	3.09	2.41	164.1	28.52	57.9	39.6
MS-12	1	2025-01-01	5.82	3.06	323.7	28.85	51.7	44.4
MS-11	1	2025-01-02	3.17	2.43	154.3	28.54	59.2	30.8
MS-09	1	2025-01-02	3.69	3.34	17.3	28.69	54	37
MS-12	1	2025-01-02	4.84	3.98	325.8	28.86	53.5	37.9
MS-09	1	2025-01-03	7.32	2.26	312.9	28.63	51.7	47.2
MS-11	1	2025-01-03	7.71	2.1	172.5	28.48	54.8	46.3
MS-08	1	2025-01-03	2.77	2.09	247.8	28.71	51.6	49.9
MS-12	1	2025-01-03	8.79	2.73	328.7	28.81	51.6	47.9
MS-12	1	2025-01-04	6.28	4.91	341.4	28.86	52.5	48
MS-09	1	2025-01-04	3.52	6.04	17.8	28.68	54.4	44.8
MS-11	1	2025-01-04	3.27	5.89	352.8	28.53	54.2	45.8
MS-09	1	2025-01-05	2.53	3.4	25.9	28.73	56.9	30.2
MS-12	1	2025-01-05	4.25	3.77	325	28.91	55.5	31.3
MS-11	1	2025-01-06	2.54	3.38	29.6	28.48	60	34.5
MS-09	1	2025-01-06	3.28	3.11	16.2	28.63	57.3	38.2
MS-12	1	2025-01-06	4.73	3.12	336.6	28.8	56.5	38.4
MS-08	1	2025-01-07	5.96	4.73	37.1	28.7	57	38.9
MS-09	1	2025-01-07	9.3	7.13	33.7	28.62	58.5	36.2
MS-12	1	2025-01-07	22.53	7.1	322.6	28.79	58.7	36.7
MS-11	1	2025-01-07	28.12	7.49	22.8	28.46	57.3	37.2
MS-06	1	2025-01-07	3.33	10.41	37.1	28.85	59.6	35.2
MS-07	1	2025-01-07	7.21	13.03	45.2	28.72	58.7	35.7
MS-06	1	2025-01-08	4.06	9.03	22.7	28.98	56.5	19.9
MS-08	1	2025-01-08	5.94	4.89	54.1	28.83	55.6	20.6
MS-11	1	2025-01-08	15.32	5.7	28.2	28.59	55.8	19.5
MS-12	1	2025-01-08	17.55	6.17	311.6	28.92	56.9	19.5
MS-09	1	2025-01-08	12.43	6.5	35.9	28.75	57	19.2
MS-07	1	2025-01-08	7.93	14.92	58.7	28.84	57.5	18.4
MS-12	1	2025-01-09	3.5	4.74	331.5	28.92	55.7	20.3
MS-12	1	2025-01-10	3.7	4.26	334.3	29.03	57.9	20.8
MS-09	1	2025-01-10	3.28	4.74	17.6	28.85	57.7	21.1
MS-11	1	2025-01-11	4.63	4.25	24.4	28.48	55.4	27.8
MS-09	1	2025-01-11	4.82	4.69	20	28.64	54	30
MS-12	1	2025-01-11	6.42	4.89	330.9	28.82	54.1	29.5
MS-12	1	2025-01-12	3.68	4.67	333.3	28.87	51.1	25.4
MS-11	1	2025-01-13	3.93	5.67	19.4	28.66	50.4	23.8
MS-12	1	2025-01-13	4.47	6.59	328.3	29	52.1	22.8
MS-12	2	2025-01-15	3.27	5.58	325.3	29	57.3	21.2
MS-11	2	2025-01-15	3.09	4.49	23.8	28.67	56	21.6
MS-11	2	2025-01-16	3.18	1.97	184.6	28.56	54.5	25.8
MS-12	2	2025-01-16	5.35	2.77	326.1	28.9	48.9	32

Table A-2
24-Hour Average PM10 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-09	2	2025-01-16	4.18	2.73	0.6	28.72	52	30.5
MS-09	2	2025-01-17	6.74	2.44	308.4	28.74	44	65.7
MS-12	2	2025-01-17	8.02	2.6	330.1	28.92	43.6	66
MS-11	2	2025-01-17	7.15	1.98	189.6	28.58	46.3	63.6
MS-11	2	2025-01-18	11.01	1.89	178.7	28.62	47.4	75.2
MS-09	2	2025-01-18	7.8	2.27	334.7	28.77	45.7	73.8
MS-12	2	2025-01-18	9.68	2.36	329.5	28.95	45.3	73.9
MS-12	2	2025-01-19	7.67	2.7	333.7	28.9	44.3	74.5
MS-11	2	2025-01-19	8.69	1.89	193.3	28.56	47.1	74.3
MS-09	2	2025-01-19	6	2.42	305.9	28.72	44.5	72.6
MS-11	2	2025-01-20	16.91	5.29	48.2	28.64	50.8	43.4
MS-09	2	2025-01-20	10.59	5.21	37.3	28.8	51.2	42.7
MS-07	2	2025-01-20	5.78	12.38	48.1	28.9	51.5	42.7
MS-08	2	2025-01-20	5.05	4.28	53.5	28.89	51.4	42.7
MS-12	2	2025-01-20	16.26	5.26	314.4	28.98	51.5	43.3
MS-06	2	2025-01-20	3.46	7.57	4.9	29.04	52	43
MS-11	2	2025-01-21	3.48	5.22	14.8	28.84	51.8	14.3
MS-12	2	2025-01-21	3.79	5.73	323.8	29.18	52.8	14.2
MS-09	2	2025-01-22	6.3	4.85	21.1	28.87	58.2	13.1
MS-07	2	2025-01-22	2.63	8.25	32.2	28.97	59.8	10.8
MS-08	2	2025-01-22	2.91	2.83	333.3	28.95	54.3	16.4
MS-12	2	2025-01-22	9.22	4.83	329.3	29.04	56	14.3
MS-11	2	2025-01-22	9.13	3.79	30.6	28.71	59.4	11.1
MS-11	2	2025-01-23	4.75	4.5	8.2	28.75	60.1	8.9
MS-12	2	2025-01-23	15.45	6.36	323.2	29.09	60.8	9.4
MS-06	2	2025-01-23	6.58	10.18	11.4	29.14	63.2	8
MS-08	2	2025-01-23	5.04	3.41	56.7	29	58.4	11.1
MS-07	2	2025-01-23	8.11	10.58	38.7	29.01	62	8.1
MS-09	2	2025-01-23	13.91	6.52	27.6	28.91	61.7	9.1
MS-09	2	2025-01-24	3.92	3.1	29.7	28.62	56.7	16
MS-11	2	2025-01-24	3.24	1.97	171.5	28.47	57.1	15
MS-12	2	2025-01-24	5.52	3.01	325	28.8	52.7	17.9
MS-10	2	2025-01-24	4.32	1.78	342.2	28.91	56.5	20
MS-11	2	2025-01-25	7.47	3.17	188.1	28.29	48.5	54.1
MS-09	2	2025-01-25	5.88	3.31	213.6	28.45	47.1	51.6
MS-10	2	2025-01-25	6.75	3.18	232.7	28.73	46.7	56.4
MS-12	2	2025-01-25	7.45	3.2	179	28.63	46.1	52.2
MS-07	2	2025-01-25	2.52	5.48	247.1	28.56	47.6	50.6
MS-10	2	2025-01-26	3.2	1.71	264	28.87	45	88.8
MS-11	2	2025-01-26	3.19	2.63	167.7	28.42	44.3	88.7
MS-12	2	2025-01-26	2.76	1.67	348.4	28.76	44.7	90.1
MS-11	3	2025-01-28	4.01	1.8	168.2	28.46	46.8	64.5
MS-09	3	2025-01-28	2.75	2.45	326.2	28.61	44	70.7

Table A-2
24-Hour Average PM10 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-10	3	2025-01-28	3.99	1.92	307.9	28.9	44.7	70.2
MS-12	3	2025-01-28	4.01	2.63	337.5	28.79	44.2	72.1
MS-11	3	2025-01-29	9.47	1.86	180.1	28.52	45.8	78
MS-12	3	2025-01-29	8.76	2.43	329.9	28.86	43.8	81
MS-10	3	2025-01-29	8.44	1.84	303.3	28.97	44.7	79.4
MS-09	3	2025-01-29	6.49	2.46	302.6	28.68	43.8	80.1
MS-10	3	2025-01-30	8.67	1.33	282	29.08	45.8	81
MS-12	3	2025-01-30	8.2	1.85	303.7	28.96	45.6	83
MS-09	3	2025-01-30	6.53	1.75	4.3	28.79	45.2	81.8
MS-11	3	2025-01-30	9.95	1.54	170.1	28.63	46.2	82.7
MS-10	3	2025-01-31	7.29	1.54	267.9	29.09	49	72.2
MS-12	3	2025-01-31	7.54	1.98	323	28.98	48.3	74.9
MS-09	3	2025-01-31	5.87	1.78	308.7	28.8	48	74
MS-11	3	2025-01-31	11.12	1.82	143.6	28.65	48.9	75.6
MS-07	3	2025-01-31	3	3.79	7.5	28.91	48.1	75.1
MS-11	3	2025-02-01	6.06	1.96	166.5	28.55	56.9	62.9
MS-09	3	2025-02-01	3.44	2.47	294	28.7	54.2	65.9
MS-12	3	2025-02-01	5.2	2.62	343.6	28.88	54.3	68
MS-10	3	2025-02-01	4.92	2.03	284.4	28.99	54.4	67.4
MS-12	3	2025-02-02	6.46	2.5	341.5	28.83	56.1	72.8
MS-11	3	2025-02-02	6.93	2.05	170.1	28.5	58.7	69
MS-10	3	2025-02-02	5.6	1.67	35	28.93	56.7	70.3
MS-09	3	2025-02-02	4.02	2.28	326.2	28.65	56.5	70.5
MS-12	3	2025-02-03	7.05	2.37	337.4	28.71	54.5	68.8
MS-10	3	2025-02-03	7.68	1.95	333.4	28.82	55.1	67.9
MS-09	3	2025-02-03	5.54	2.38	321	28.53	54.9	64.4
MS-11	3	2025-02-03	10.12	2.26	182.1	28.38	57.3	66.5
MS-10	3	2025-02-04	3.75	3.14	261.4	28.84	50.9	79.5
MS-11	3	2025-02-04	3.68	2.63	190.7	28.4	51.7	80.2
MS-09	3	2025-02-04	2.83	2.99	252	28.55	50.2	79.8
MS-12	3	2025-02-04	3.41	2.66	268.5	28.73	50.2	81
MS-12	4	2025-02-07	2.56	2.11	185.1	28.84	55.2	86.5
MS-12	5	2025-02-09	3.82	3.67	328.9	28.81	51	52.9
MS-10	5	2025-02-09	2.86	1.81	322.1	28.92	53.3	47.3
MS-12	5	2025-02-10	5.15	2.5	295.9	28.77	48.4	69.2
MS-10	5	2025-02-10	5.13	2.19	238.5	28.88	48.8	68.4
MS-09	5	2025-02-10	3.85	2.96	234.9	28.69	55.3	59.7
MS-11	5	2025-02-10	5.85	2.37	172.2	28.44	50	65.5
MS-09	5	2025-02-11	2.88	2.33	335.8	28.63	49.2	64.8
MS-12	5	2025-02-11	4.25	2.19	329.3	28.68	49.1	67.9
MS-11	5	2025-02-11	3.82	1.97	228.2	28.35	50.2	59.5
MS-10	5	2025-02-11	3.87	1.76	265.8	28.79	50.5	63.4
MS-12	6	2025-02-14	3.72	5.35	176.3	28.85	55.9	66.1

Table A-2
24-Hour Average PM10 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-09	6	2025-02-14	2.9	5.99	265	28.81	55.8	63.4
MS-11	6	2025-02-14	4.07	4.93	205.1	28.5	54.1	72.1
MS-10	6	2025-02-14	4.03	5	249.6	28.94	54.6	71.7
MS-12	7	2025-02-16	2.59	2.49	328.3	28.81	54.4	55.8
MS-10	7	2025-02-17	2.7	2.76	252.8	28.83	56.1	56.9
MS-12	7	2025-02-17	3.76	2.45	334	28.72	54.1	62.4
MS-12	7	2025-02-18	3.2	3.56	330.6	28.78	56.3	51.3
MS-10	7	2025-02-18	2.72	2.74	352.5	28.9	58.7	46.7
MS-11	7	2025-02-18	2.51	3.57	5.2	28.46	58	45.8
MS-11	7	2025-02-19	2.88	2.61	247.7	28.5	62.2	39.8
MS-10	7	2025-02-19	3.53	2.09	273.6	28.94	59.2	49.8
MS-12	7	2025-02-19	3.76	2.68	326.9	28.82	56.5	54.3
MS-11	7	2025-02-20	3.32	5.09	6.6	28.45	61	41.5
MS-10	7	2025-02-20	3.69	3.24	9.4	28.89	62.8	40.5
MS-12	7	2025-02-20	4.47	4.6	331.1	28.77	59.7	45.3
MS-12	7	2025-02-21	3.37	4.09	331.5	28.86	59.1	33
MS-12	7	2025-02-22	3.21	2.74	330	28.96	56.6	40.8
MS-12	7	2025-02-23	2.94	2.86	328.4	28.95	58.1	45.6
MS-12	7	2025-02-24	4.35	2.9	338.3	28.85	63.3	47
MS-09	7	2025-02-24	3.27	3.45	7.1	28.8	64.7	43.5
MS-11	7	2025-02-24	4.35	2.83	22.9	28.53	66.6	39.1
MS-10	7	2025-02-24	4.19	2.21	332.3	28.96	64.5	45.7
MS-09	7	2025-02-25	2.69	5.97	25.9	28.69	69.4	28
MS-12	7	2025-02-25	3.3	4.64	340.2	28.74	67.2	31
MS-11	7	2025-02-25	3.49	4.34	351.8	28.43	67.5	30
MS-10	7	2025-02-25	3.3	2.54	340.1	28.85	68.4	31.7
MS-10	7	2025-02-26	2.98	2.19	345.9	28.87	64.3	33.1
MS-12	7	2025-02-26	3.55	4.01	331.5	28.76	62	35.1
MS-12	7	2025-02-27	4.15	4.4	328.1	28.83	63.6	23.2
MS-11	7	2025-02-27	3.04	3.69	15.4	28.51	67.1	16.2
MS-09	7	2025-02-27	2.5	5.11	24.5	28.78	67.2	17.8
MS-10	7	2025-02-27	4.15	2.34	1.8	28.94	63.9	24.4
MS-10	7	2025-02-28	5.57	2.44	233	28.82	59.5	45
MS-11	7	2025-02-28	4.54	2.91	179.1	28.38	62.6	35.8
MS-12	7	2025-02-28	5.1	2.32	267.7	28.7	59.7	42.3
MS-09	7	2025-02-28	4.11	2.79	239	28.65	62.2	37.3
MS-10	7	2025-03-01	7.94	3.15	224	28.83	56.5	75.5
MS-09	7	2025-03-01	6.36	2.89	235.3	28.66	55.9	75.4
MS-12	7	2025-03-01	7.28	2.69	174.3	28.71	56.2	75.6
MS-11	7	2025-03-01	8.63	2.64	167.1	28.39	55.8	76.4
MS-10	7	2025-03-02	4.13	5.02	242.8	28.92	51.6	74.1
MS-12	7	2025-03-02	3.68	3.53	174	28.8	51.4	75
MS-11	7	2025-03-02	3.89	3.12	187.8	28.47	51.8	72.3

Table A-2
24-Hour Average PM10 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-09	7	2025-03-02	3.13	4.27	236.7	28.75	50.9	74.3
MS-11	8	2025-03-04	5.29	2.36	198.4	28.56	53.6	62
MS-12	8	2025-03-04	5.71	2.44	5.8	28.88	52.3	67.2
MS-10	8	2025-03-04	5.12	2.26	233.8	29	54	62.6
MS-09	8	2025-03-04	4.26	2.56	288.6	28.83	53	64
MS-12	8	2025-03-05	3.17	1.51	225.2	28.7	48.4	88.3
MS-07	8	2025-03-05	3.98	3.32	270.9	28.63	48	89.2
MS-10	8	2025-03-05	3.67	1.53	243.5	28.82	48.6	87.6
MS-09	8	2025-03-05	2.74	1.8	259.1	28.64	48	87.3
MS-11	8	2025-03-05	4.29	1.31	222.3	28.37	48.5	88.8
MS-12	9	2025-03-08	2.63	3.4	328.8	28.99	49.2	56.2
MS-12	9	2025-03-09	3.08	2.87	326.5	28.92	51.8	55.6
MS-11	9	2025-03-09	3.22	2.32	172.3	28.59	55.2	49.3
MS-12	9	2025-03-10	2.83	3.29	326.5	28.69	53.1	52.2
MS-11	9	2025-03-10	2.96	2.96	170.5	28.37	54.7	48
MS-10	9	2025-03-10	2.77	2.37	14.2	28.81	53.1	53.3
MS-12	10	2025-03-15	3.42	3.22	322.7	28.83	55.1	60.2
MS-09	10	2025-03-15	2.6	4.22	344.3	28.79	55.1	58.1
MS-10	10	2025-03-15	3.23	2.09	310.5	28.93	50.7	69.4
MS-11	10	2025-03-15	2.94	2.89	238.7	28.48	50.9	67.8
MS-10	10	2025-03-16	4.7	1.71	295.2	29	51.5	71.1
MS-09	10	2025-03-16	3.96	2.26	310.4	28.83	49.8	73
MS-11	10	2025-03-16	5.52	1.95	185.3	28.56	52.5	69.2
MS-12	10	2025-03-16	4.54	2.43	331.2	28.88	50.9	72.1
MS-10	10	2025-03-17	5.37	3.42	300.7	28.95	50.6	79.6
MS-09	10	2025-03-17	4.39	3.13	283.4	28.78	50	78.9
MS-12	10	2025-03-17	5.08	3.17	248.2	28.82	50.3	79.3
MS-11	10	2025-03-17	6.12	2.57	190.2	28.5	51.5	77.3
MS-10	11	2025-03-20	2.62	2.03	47.6	28.97	56.8	53.1
MS-12	11	2025-03-20	3.74	2.72	332.4	28.86	55.2	56.2
MS-07	11	2025-03-20	5.73	4.74	360	28.79	56.3	52.1
MS-09	11	2025-03-20	2.52	3.58	24	28.81	56.1	51.3
MS-12	11	2025-03-21	2.97	3.51	326.2	28.78	62.6	45.8
MS-06	11	2025-03-21	3.92	4.47	266.4	28.83	62.6	43.4
MS-10	11	2025-03-21	2.93	3.36	250.2	28.89	62.5	45.4
MS-09	11	2025-03-22	2.72	2.53	314.4	28.68	60	56.2
MS-06	11	2025-03-22	4.98	3.09	253.5	28.77	60.7	55.8
MS-12	11	2025-03-22	3.92	2.42	313.8	28.73	58.6	61.4
MS-11	11	2025-03-22	3.21	2.28	29.7	28.41	63.3	46.5
MS-10	11	2025-03-22	3.26	2.42	258.9	28.83	61.9	52.5
MS-09	11	2025-03-23	3.09	3.81	1.7	28.7	64.3	54.2
MS-11	11	2025-03-23	4.78	2.83	96.8	28.43	65.4	53.3
MS-10	11	2025-03-23	4.22	2.81	52.2	28.86	65	55.3

Table A-2
24-Hour Average PM10 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-12	11	2025-03-23	4.01	3.38	328	28.75	62	61.6
MS-06	11	2025-03-23	5.4	4.53	309.4	28.8	63.8	57.2
MS-11	11	2025-03-24	3.67	2.2	176.1	28.48	70	49.5
MS-12	11	2025-03-24	4.3	3.09	334.4	28.8	66.7	58
MS-09	11	2025-03-24	2.88	3.02	9.6	28.75	67.1	54.4
MS-06	11	2025-03-24	5.28	2.8	251.5	28.84	67.2	58
MS-10	11	2025-03-24	4.2	1.89	48.9	28.9	67.4	57.4
MS-10	11	2025-03-25	5.46	2.41	203.5	28.83	64.5	62.3
MS-12	11	2025-03-25	4.86	2.77	227.5	28.73	64.9	62
MS-06	11	2025-03-25	6.55	3.63	238	28.77	64.4	62.1
MS-09	11	2025-03-25	3.31	2.77	296.8	28.68	65.2	59
MS-11	11	2025-03-25	4.46	2.09	171.9	28.41	67.4	56.7
MS-11	11	2025-03-26	7.6	1.69	226.6	28.47	54.2	88.1
MS-06	11	2025-03-26	8.07	3.47	243	28.84	55.1	85.6
MS-10	11	2025-03-26	8.06	2.43	249.3	28.9	55.4	85
MS-12	11	2025-03-26	6.24	1.93	235.8	28.79	55	85.4
MS-09	11	2025-03-26	5.32	2.48	259.1	28.74	54.4	84.7
MS-11	11	2025-03-27	3.25	1.6	233.9	28.47	55.6	83.6
MS-10	11	2025-03-27	3.13	2.99	244.5	28.9	56.1	81.7
MS-06	11	2025-03-27	3.81	4.25	236.2	28.84	56.1	81.5
MS-12	11	2025-03-27	2.73	1.98	220.5	28.79	56.2	81.2
MS-11	11	2025-03-28	4.58	3.08	190.7	28.4	57.6	69.6
MS-10	11	2025-03-28	4.57	2.89	258.5	28.83	57	73
MS-08	11	2025-03-28	3.86	2.31	251	28.63	55.6	75.3
MS-12	11	2025-03-28	4.31	2.35	241.8	28.72	56.5	74.6
MS-06	11	2025-03-28	5.46	3.84	248.8	28.76	56.9	72.7
MS-09	11	2025-03-28	3.66	2.96	291.2	28.67	56.2	72.7
MS-11	11	2025-03-29	4.41	3.04	235.6	28.39	55.8	60.8
MS-09	11	2025-03-29	3.55	3.52	296.8	28.66	53.8	64.9
MS-10	11	2025-03-29	4.43	3.32	256.8	28.82	54.6	65.4
MS-06	11	2025-03-29	5.39	4.11	249.9	28.76	54.7	65.8
MS-08	11	2025-03-29	4.89	2.6	261.2	28.62	52.9	67.7
MS-12	11	2025-03-29	3.98	2.81	303.8	28.71	53.1	68
MS-08	11	2025-03-30	6.31	2.54	256.9	28.71	52.7	80.6
MS-06	11	2025-03-30	2.77	4.69	241.5	28.84	53.7	78.6
MS-11	11	2025-03-30	2.75	2.2	198.4	28.47	54.1	78.8
MS-08	11	2025-03-31	6.14	2.65	252.2	28.7	56.5	80.3

Table A-3

2-Hour Average $PM_{2.5}$ and PM_{10} Community Monitoring Station Data

Table A-3
2-Hour Average PM2.5 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM2.5	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-11	1	2025-01-20 04:00:00	25.15	1.51	107.2	28.52	41.2	95.4
MS-11	2	2025-01-22 20:00:00	28	3.53	339.8	28.71	60.3	9.9
MS-11	2	2025-01-22 22:00:00	33.6	3.19	338.1	28.74	58.5	11.5

Table A-3
2-Hour Average PM10 Community Monitoring Station Data

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m³	mph	°	in Hg	°F	%
MS-11	1	2025-01-07 10:00:00	40.43	9.1	31.3	28.48	61.8	31.7
MS-12	1	2025-01-07 12:00:00	36.53	10.16	305.6	28.76	66	22.2
MS-11	1	2025-01-07 12:00:00	53.89	10.98	27	28.43	63.8	23.9
MS-12	1	2025-01-07 14:00:00	57.35	10.99	317.5	28.74	65.5	17.1
MS-09	1	2025-01-07 14:00:00	32.17	10.46	33.3	28.57	64.8	17.7
MS-11	1	2025-01-07 14:00:00	36.11	9.87	21.5	28.41	63.5	18.3
MS-11	2	2025-01-07 18:00:00	42.05	6.36	14.8	28.51	55	37.2
MS-11	2	2025-01-07 20:00:00	57.24	11.37	24.1	28.56	57.6	21.3
MS-12	2	2025-01-07 20:00:00	43.46	11.93	307.8	28.88	59.8	19.8
MS-11	2	2025-01-07 22:00:00	54.74	11.12	10.7	28.57	55.5	24
MS-12	2	2025-01-07 22:00:00	66.71	12.36	335.5	28.91	58	22.8
MS-12	2	2025-01-08 00:00:00	35.12	8.87	328.9	28.9	57.1	23
MS-11	3	2025-01-08 04:00:00	27.56	5.99	79.8	28.6	52.7	23.7
MS-11	4	2025-01-08 10:00:00	44.55	10.45	41.3	28.64	59.1	17.7
MS-12	4	2025-01-08 10:00:00	42.66	7.87	279.3	28.97	61.3	16
MS-09	4	2025-01-08 10:00:00	33.23	8.6	55.7	28.8	60.3	16.5
MS-12	4	2025-01-08 12:00:00	28.4	9.72	297.7	28.91	64.8	13.4
MS-11	5	2025-01-20 02:00:00	25.89	1.35	141.1	28.53	42.6	96
MS-11	5	2025-01-20 04:00:00	26.34	1.51	107.2	28.52	41.2	95.4
MS-12	6	2025-01-20 12:00:00	32.85	8.64	278.6	28.96	62.9	16.6
MS-11	6	2025-01-20 12:00:00	42.97	11.01	43.3	28.63	60.7	17.5
MS-11	6	2025-01-20 14:00:00	31.44	10.19	49	28.65	60.5	14.9
MS-12	6	2025-01-20 14:00:00	25.95	7.29	274	28.97	63.3	14.2
MS-09	7	2025-01-22 16:00:00	27.73	4.69	31.4	28.83	67	9.6
MS-12	7	2025-01-22 16:00:00	35.83	5.14	321.2	29.01	67.4	9
MS-11	8	2025-01-22 20:00:00	32.9	3.53	339.8	28.71	60.3	9.9
MS-11	8	2025-01-22 22:00:00	39.65	3.19	338.1	28.74	58.5	11.5
MS-12	9	2025-01-23 08:00:00	38.12	7.56	317.3	29.15	62.6	9.3
MS-09	9	2025-01-23 08:00:00	45.07	8.04	28.5	28.97	61.9	10
MS-06	9	2025-01-23 10:00:00	33.1	15.7	5.5	29.19	65.8	6.9
MS-09	9	2025-01-23 10:00:00	48.85	10.99	34.6	28.96	65.2	8.1
MS-07	9	2025-01-23 10:00:00	30.11	16.71	47.3	29.06	65.5	7.1
MS-12	9	2025-01-23 10:00:00	46.27	10.89	307.5	29.13	66.1	7.6
MS-12	9	2025-01-23 12:00:00	27.19	10.95	318.3	29.08	69	6.6
MS-07	10	2025-03-05 10:00:00	27.87	2.17	149.1	28.67	49.9	89.1
MS-07	11	2025-03-20 10:00:00	53.12	4.41	129.1	28.82	63	42.7
MS-08	12	2025-03-30 22:00:00	34.24	1.95	258.1	28.75	52.8	89.2
MS-08	12	2025-03-31 00:00:00	27.75	1.59	249	28.75	52.9	90.9

Appendix B

First Quarter 2025 Community Air Monitoring Station

Monitoring Data (1-Hour Averages)

Since the continuous monitoring data presented in this report includes only exceedance events, the complete 1-hour data set is included as a separate, linked attachment. The one-hour continuous monitoring data for the off-site air monitoring stations (MS-06 through MS-12) referenced in this quarterly report can be accessed on the Chiquita Canyon Landfill in the Air Monitoring Reports section:

https://chiquitacanyon.com/reports/community-air-monitoring-program/

Appendix C

First Quarter 2025 Community Air Monitoring Station Reporting Thresholds

Table C-1

Discrete Sampling Reporting Thresholds

Table C-1
Discrete Sampling Reporting Thresholds

Compound[1]	CAS No.	REL in µg/m^3 [2]
Benzene	71-43-2	27
Benzyl chloride	100-44-7	240
Chlorobenzene	108-90-7	1000
1,2-Dibromoethane	106-93-4	0.8
Dichlorobenzenes[3]	106-46-7	800
1,1-Dichloroethane	75-34-3	N/A
1,2-Dichloroethane	106-06-2	400
1,1-Dichlroethene	75-35-4	70
Dichloromethane	75-09-2	14,000
Hydrogen Sulfide	7783-06-4	42[4]
Tetrachloroethene	128-18-4	20,000
Tetrachloromethane	56-23-5	1,900
Toluene	108-88-3	5,000
1,1,1-Trichloroethane	71-55-6	68,000
Trichloroethene	79-01-6	600
Vinyl chloride	75-01-4	180,000
Xylenes	1330-20-7	22,000

Notes

[1] List of compounds from SCAQMD Rule 1150.1, Table 1 Toxic Air Contaminant List

[2] RELs based on OEHHA REL for Acute Hazard Index Target Organ Systems (Table 6.1 from the February 2015 Air Toxics Hot Spots Program Guidance Manual).

[3] Includes meta, para, and ortho isomers. Para CAS used for REL.

[4] Based on CAAQS

Acronyms

CAAQS - California Ambient Air Quality Standards
CAS - Chemical Abstracts Service Chemica Registry Number
OEHHA - California Office of Health Hazard Assessment
REL - Reference Exposure Levels
SCAQMD - South Coast Air Quality Management District
µg/m^3 - micrograms per cubic meter

Appendix D

First Quarter 2025 Discrete Sampling Lab Reports

AtmAA Inc.
5107 Douglas Fir Road, Calabasas, CA 91302 • (818) 223-3277
specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: February 3, 2025
Client: SCS Field Services
Project Location: Chiquita Canyon Off-site
Project No.: 01204123.19 T10
Date Received: January 15, 2025
Date Analyzed: January 15-16, 2025

AtmAA Lab No.:	20155-19	20155-20	20155-21
Sample I.D.:	MS-07	MS-08	MS-12
Components	*(Concentration in ppmv)*		
Methane	1.61	1.82	1.68
	(Concentration in ppbv)		
Hydrogen sulfide	<25	<25	<25
Benzene	0.12	0.19	0.18
Benzyl chloride	<0.15	<0.15	<0.15
Chlorobenzene	<0.15	<0.15	<0.15
Dichlorobenzenes*	<0.30	0.43	0.36
1,1-dichloroethane	<0.15	<0.15	<0.15
1,2-dichloroethane	<0.15	<0.15	<0.15
1,1-dichloroethylene	<0.15	<0.15	<0.15
Dichloromethane	<0.30	0.36	<0.30
1,2-dibromoethane	<0.10	<0.10	<0.10
Perchloroethylene	<0.10	<0.10	<0.10
Carbon tetrachloride	<0.15	<0.15	<0.15
Toluene	0.39	0.66	0.52
1,1,1-trichloroethane	<0.10	<0.10	<0.10
Trichloroethene	<0.10	<0.10	<0.10
Chloroform	<0.10	<0.10	<0.10
Vinyl chloride	<0.10	<0.10	<0.10
m+p-xylenes	0.21	0.40	0.33
o-xylene	<0.12	0.14	0.12

Methane was measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.
Toxic air contaminants (TAC) compounds were analyzed by GC/MS, EPA TO-15.
Hydrogen sulfide was analyzed by SCD/GC, SCAQMD 307.91.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Off-site
Date Received: January 15, 2025
Date Analyzed: January 15-16, 2025

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Methane	MS-07	1.60	1.62	1.61	1.2
		(Concentration in ppbv)			
Hydrogen sulfide	MS-07	<25	<25	---	---
Benzene	No Repeat				
Benzyl chloride	No Repeat				
Chlorobenzene	No Repeat				
Dichlorobenzenes	No Repeat				
1,1-dichloroethane	No Repeat				
1,2-dichloroethane	No Repeat				
1,1-dichloroethylene	No Repeat				
Dichloromethane	No Repeat				
1,2-dibromoethane	No Repeat				
Perchloroethylene	No Repeat				
Carbon tetrachloride	No Repeat				
Toluene	No Repeat				
1,1,1-trichloroethane	No Repeat				
Trichloroethene	No Repeat				
Chloroform	No Repeat				
Vinyl chloride	No Repeat				
m+p-xylenes	No Repeat				
o-xylene	No Repeat				

Three Tedlar bag samples, laboratory numbers 20155-(19-21), were analyzed for SCAQMD Rule 1150.1 components. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The % RPD for 1 repeat measurement from three Tedlar bag samples is 1.2%.

CHAIN OF CUSTODY RECORD

SCS ENGINEERS Environmental Consultants
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806
Phone: (562) 426-9544 Fax: (562) 427-0805

TOTAL NUMBER OF SAMPLES: 3

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ✓ 5-Day ___3-Day ___Immediate _____Other

PROJECT NUMBER: 01204123.19 T10

PROJECT MANAGER: Rory Huff

PROJECT NAME: Chiquita Canyon

W.O. / S.O. #:

PROJECT LOCATION: Chiquita Canyon (off-site)

SAMPLER NAME AND SIGNATURE: Cage Johnson

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TO-15	307.91								LAB USE ONLY: Atmaa #
1	MS-07	Air	1/14/25 14:40	1L Tedlar	None		X	X								2005-19
2	MS-08	Air	1/14/25 14:56	1L Tedlar	None		X	X								-20
3	MS-12	Air	1/14/25 14:49	1L Tedlar	None		X	X								-21

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	1-15-25		1/15/25				1/15/25
COMPANY: SCS	TIME: 7:50 Am	COMPANY: SCS	TIME: 10Am	COMPANY:	TIME:	COMPANY: Atmaa	TIME: 10:15

AtmAA Inc.
5107 Douglas Fir Rd., Calabasas, CA 91302 • (818) 223-3277
specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: March 6, 2025
Client: SCS Field Services
Project Location: Chiquita Canyon Off-site
Project No.: 01204123.19 T10
Date Received: February 12, 2025
Date Analyzed: February 12-14, 2025

AtmAA Lab No.:	20435-15	20435-16	20435-17
Sample I.D.:	MS-06	MS-09	MS-10
Components	*(Concentration in ppmv)*		
Methane	1.90	1.90	1.92
	(Concentration in ppbv)		
Hydrogen sulfide	<25	<25	<25
Benzene	0.19	0.17	0.16
Benzyl chloride	<0.15	<0.15	<0.15
Chlorobenzene	<0.15	<0.15	<0.15
Dichlorobenzenes*	<0.30	<0.30	<0.30
1,1-dichloroethane	<0.15	<0.15	<0.15
1,2-dichloroethane	<0.15	<0.15	<0.15
1,1-dichloroethylene	<0.15	<0.15	<0.15
Dichloromethane	<0.30	<0.30	<0.30
1,2-dibromoethane	<0.10	<0.10	<0.10
Perchloroethylene	<0.10	<0.10	<0.10
Carbon tetrachloride	<0.15	<0.15	<0.15
Toluene	0.36	0.43	0.28
1,1,1-trichloroethane	<0.10	<0.10	<0.10
Trichloroethene	<0.10	<0.10	<0.10
Chloroform	<0.10	<0.10	<0.10
Vinyl chloride	<0.10	<0.10	<0.10
m+p-xylenes	0.34	0.23	0.28
o-xylene	0.12	<0.12	<0.12

Methane was measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.
Toxic air contaminants (TAC) compounds were analyzed by GC/MS, EPA TO-15.
Hydrogen sulfide was analyzed by SCD/GC, SCAQMD 307.91.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Off-site
Date Received: February 12, 2025
Date Analyzed: February 12-14, 2025

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Methane	MS-06	1.93	1.87	1.90	3.2
		(Concentration in ppbv)			
Hydrogen sulfide	MS-06	<25	<25	---	---
Benzene	No Repeat				
Benzyl chloride	No Repeat				
Chlorobenzene	No Repeat				
Dichlorobenzenes	No Repeat				
1,1-dichloroethane	No Repeat				
1,2-dichloroethane	No Repeat				
1,1-dichloroethylene	No Repeat				
Dichloromethane	No Repeat				
1,2-dibromoethane	No Repeat				
Perchloroethylene	No Repeat				
Carbon tetrachloride	No Repeat				
Toluene	No Repeat				
1,1,1-trichloroethane	No Repeat				
Trichloroethene	No Repeat				
Chloroform	No Repeat				
Vinyl chloride	No Repeat				
m+p-xylenes	No Repeat				
o-xylene	No Repeat				

Three Tedlar bag samples, laboratory numbers 20435-(15-17), were analyzed for SCAQMD Rule 1150.1 components. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The % RPD for 1 repeat measurement from three Tedlar bag samples is 3.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Chiquita Canyon	Chiquita Canyon (Off-Site)
Project No. 01204123.19 T10	**Field Logbook No.**
Sampler: (Signature)	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91	VOCs (TO-15)					Special Remarks
MS-06	1L Tedlar/Air	20435-15	2/11/25	12:55	X	X					
MS-09	1L Tedlar/Air	-16	2/11/25	13:25	X	X					
MS-10	1L Tedlar/Air	-17	2/11/25	13:10	X	X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Erikar	2-12-25	8:27am	S Ferrer	2/12/25	9:27
S Ferrer	2/12/25	11:13			
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)**	**Date**	**Time**
				2/12/25	11:13

Company Info:		Send Report to:		Analytical Laboratory
Company:	SCS Engineers	Company:	SCS Engineers	AtmAA Inc.
Street Address	3900 Kilroy Airport Way Suite 300	Street Address	3900 Kilroy Airport Way Suite 300	5107 Douglas Fir Rd.
City/State/Zip:	Long Beach / CA / 90806	City/State/Zip:	Long Beach / CA / 90806	Calabasas, CA 91302
Telephone No.:	562-743-7895 /562-335-0002	Project Manager:	Cornelius Fong	TEL: (818) 223-3277
Fax No.:		Email Address:	CFong@scsengineers.com	Email Address: info@atmaa.com

AtmAA Inc.
5107 Douglas Fir Rd., Calabasas, CA 91302 • (818) 223-3277
specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: April 3, 2025
Client: SCS Field Services
Project Location: Chiquita Canyon Off-site
Project No.: 01204123.19 T10
Date Received: March 19, 2025
Date Analyzed: March 19-20, 2025

AtmAA Lab No.:	20785-11	20785-12	20785-13
Sample I.D.:	MS-08	MS-11	MS-12
Components	*(Concentration in ppmv)*		
Methane	1.83	1.60	1.66
	(Concentration in ppbv)		
Hydrogen sulfide	<25	<25	<25
Benzene	0.19	0.22	0.21
Benzyl chloride	<0.15	<0.15	<0.15
Chlorobenzene	<0.15	<0.15	<0.15
Dichlorobenzenes*	<0.30	<0.30	<0.30
1,1-dichloroethane	<0.15	<0.15	<0.15
1,2-dichloroethane	<0.15	<0.15	<0.15
1,1-dichloroethylene	<0.15	<0.15	<0.15
Dichloromethane	<0.30	<0.30	<0.30
1,2-dibromoethane	<0.10	<0.10	<0.10
Perchloroethylene	<0.10	<0.10	<0.10
Carbon tetrachloride	<0.15	<0.15	<0.15
Toluene	0.72	0.60	0.71
1,1,1-trichloroethane	<0.10	<0.10	<0.10
Trichloroethene	<0.10	<0.10	<0.10
Chloroform	<0.10	<0.10	<0.10
Vinyl chloride	<0.10	<0.10	<0.10
m+p-xylenes	0.13	0.12	0.15
o-xylene	<0.12	<0.12	<0.12

Methane was measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.
Toxic air contaminants (TAC) compounds were analyzed by GC/MS, EPA TO-15.
Hydrogen sulfide was analyzed by SCD/GC, SCAQMD 307.91.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Chiquita Canyon	Chiquita Canyon (Off-Site)
Project No. 01204123.19 T10	**Field Logbook No.**
Sampler: (Signature) Donald Senegal	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91	VOCs (TO-15)					Special Remarks
MS-08	1L Tedlar/Air	20785-11	3/18/25	13:45	X	X					
MS-11	1L Tedlar/Air	-12	3/18/25	13:20	X	X					
MS-12	1L Tedlar/Air	-13	3/18/25	13:55	X	X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Donald Senegal	3/19/25	8:10	[signature]	3-19-25	8:15 AM
[signature]	3-19-25	8:15 AM	[signature] SCS MAC c/o Brikman [signature]	03/19/25	8:30 AM
SCS Macro [signature]	03/19/25	9:40 AM	Received for Laboratory by: (Signature)	Date	Time

Company Info:		Send Report to:		Analytical Laboratory
Company:	SCS Engineers	Company:	SCS Engineers	AtmAA Inc.
Street Address	3900 Kilroy Airport Way Suite 300	Street Address	3900 Kilroy Airport Way Suite 300	5107 Douglas Fir Rd.
City/State/Zip:	Long Beach / CA / 90806	City/State/Zip:	Long Beach / CA / 90806	Calabasas, CA 91302
Telephone No.:	562-637-4561 / 562-335-0002	Project Manager:	Ray Huff	TEL: (818) 223-3277
Fax No.:		Email Address:	RHuff@scsengineers.com	Email Address: info@atmaa.com