Semi-Annual Title V Report and New Source Performance Standards (NSPS) Report (January through June 2020)

Simi Valley Landfill and Recycling Center
Simi Valley, California

For Submittal to:

Ventura County Air Pollution Control District
669 County Square Drive
Ventura, California 93003
(805) 645-1400

Presented by:

Simi Valley Landfill and Recycling Center
2801 Madera Road
Simi Valley, California 93065

August 2020

SEMI-ANNUAL TITLE V REPORT OF REQUIRED MONITORING

A copy of the Title V Semi-Annual Report of Required Monitoring shall be submitted to VCAPCD at the following address:

Dan Searcy
Ventura County Air Pollution Control District
669 County Square Drive
Second Floor
Ventura CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this compliance certification are true, accurate, and complete.

Signature and Title of Responsible Official:	
Title: District Manager	Date: 08-14-2020

Time Period Covered by the Semi-Annual Report of Required Monitoring:
01/01/2020 to 6/30/2020

1.0 INTRODUCTION

This semi-annual Title V and New Source Performance Standards (NSPS) Report for the Simi Valley Landfill and Recycling Center (SVLRC) is being submitted by Waste Management (WM) to the Ventura County Air Pollution Control District (VCAPCD) in compliance with the following:

- VCAPCD Rule 74.17.1 (Municipal Solid Waste Landfills)
- Sections within 40 Code of Federal Regulations (CFR) Part 60, Subpart WWW ("NSPS"), including 40 CFR 60.757(f), which describe the items to be submitted in a semi-annual report for landfills seeking to comply with NSPS using an active collection system
- In compliance with 40 CFR 63, Subpart AAAA (National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Landfills), the NSPS annual report is submitted semi-annually
- To fulfill the semi-annual reporting requirement under the facility's Title V permit (No. 01395)
- VCAPCD letter dated September 30, 2004 that states that the Title V and NSPS semi-annual reports may and should be combined into one document

The semi-annual report includes the following information, as required by VCAPCD Rule 74.17.1 and 40 CFR 60.757(f), for the reporting period:

- Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d).
- Description and duration of all periods when the gas stream is diverted from the control devices.
- Description and duration of all periods when the control devices were not operating for more than 1 hour.
- All periods when the collection system was not operating in excess of 5 days.
- The location of each of the 500 parts per million by volume (ppmv) methane exceedances, and the concentration recorded at each location for which an exceedance was recorded in the previous month.
- The date of installation and the location of each well or collection system expansion added to the existing system pursuant to 40 CFR 60.755 paragraphs (a)(3), (b), and (c)(4).

The GCCS removes LFG under a vacuum from the landfill mass. The system collects and controls migrating surface and subsurface gases from the disposal area.

3.0 MONITORING AND RECORDS REQUIRED UNDER NSPS

The following information required to be submitted in the NSPS semi-annual report as referenced in Section 1 is organized in Section 3 as follows:

- Continuously Monitored Parameters
    - Wellhead Monitoring Data
    - Flare Stations Monitoring Data
    - Description and Duration of Periods when Gas was diverted from the Control System
    - Minimum Flare Temperatures
    - Control System Downtime
    - Collection System Downtime
- Surface Emissions Monitoring Data
    - Quarterly Monitoring
    - Monitoring Around Structures
- Cover Integrity Monitoring
- Gas Collection System Installations and Upgrades
- Performance Testing
    - Source Test Results (when applicable)
- Title V Compliance

3.1 CONTINUOUSLY MONITORED PARAMETERS

Applicable parameters continuously monitored under 40 CFR 60.756(a), (b), (c), and (d), include the following which should be monitored:

- Pressure applied to the extraction wells via the gas collection header should be monitored on a monthly basis. A vacuum must be maintained at each wellhead to be in compliance with 40 CFR 60.753 (b).

2020 NSPS Report. Dates and duration when oxygen at the wellheads were above 5% can be found in Appendix B.

- During the reporting period, all operational extraction wells operated with LFG temperatures less than 55 degrees C (131 degrees °F), with the exception of fifty-three (53) events. Per 40 CFR 60.755(a), corrective action (through valve adjustments) and re-monitoring was taken, and twenty-six (26) of the fifty-three (53) events were corrected within 15 days. The remaining twenty-seven (27) triggered repairs, new parts and adjustments to the wellfield under the NSPS 120-day timeframe for repair or replacement. Twenty (20) of these wells were re-monitored multiple times within 106 days, cleared their exceedances, and therefore achieved compliance with the 120-day timeframe for repair or replacement under the NSPS. Three (3) of these wells (1232, 1233 and 1813) are still within the 120-day timeframe as follow-up monitoring and repairs are currently being conducted; results will be included in the July-December 2020 NSPS Report. In addition, four (4) of these wells (1570S, 1573S, 1793S and 1810) achieved compliance with NSPS through establishing a Higher Operating Value (HOV) that was fulfilled for 140 degrees F (along with carbon monoxide readings being recorded). Dates and duration when temperatures at the wellhead(s) were greater than or equal to 131 degrees °F can be found in Appendix B.

WM requested to increase the operating temperature up to 155 degrees F for future HOV demonstrations in a May 2012 GCCS Design Plan submittal, and is currently operating under that condition. Per the Title V/Part 70 Permit, all wells operating with a HOV currently have documentation recorded onsite showing "supporting data that the elevated parameters do not cause fire or significantly inhibit anaerobic decomposition by killing methanogens".

Please note that wellhead readings for wells that were off-line due to maintenance, active filling or on-site construction activities, taken offline for well Startup, Shutdown, and Malfunction (SSM) events, and/or shut-off to control increased well temperature to prevent a subsurface fire are exempt under 40 CFR 60.753(b), and were excluded from the above review.

3.1.2 Flare Stations Monitoring Data

A temperature monitoring device with a continuous recorder and a LFG flow rate monitoring device which records flows at least every 15 minutes is installed at the flare stations. The monitoring records are summarized and kept on file at the landfill. During the reporting period, the gas collection system was operated in compliance with the requirement to operate the system such that all collected gases are vented to a control system (40 CFR 60.753 (e)), and the requirement to operate the control or treatment system at all times when the collected gas is routed to the system (40 CFR 60.753 (f)). The flare stations are equipped with an automatic shutdown and alarm system, which shuts down the blowers and closes a valve on the main header pipe whenever the flares shut down. This ensures that no collected LFG is vented to the atmosphere untreated.

LFG extraction wells are conducted on a quarterly basis. The results of the monitoring are summarized below. Please see Appendix E for a copy of the 1st and 2nd quarter SEM reports.

Quarter/ Date of Monitoring	Number of Grid Exceedances >500 ppmv	Date of 10-Day Re-Monitoring Event	Number of Grid Exceedances >500 ppmv (10 days)	Date of 2nd 10-day Re-Monitoring Event	Date of 30-day Re-Monitoring Event	Number of Grid Exceedances >500 ppmv (30 days)
1st Qtr/ February 28, 2020	11	March 9, 2020	3	March 19, 2020 (0 exceedances)	March 27, 2020	0
2nd Qtr/ May 21 & 26, 2020	31	May 29 & June 5, 2020	1	June 15, 2020 (0 exceedances)	June 19 & 20, 2020	0

3.3 COVER INTEGRITY MONITORING

Per 40 CFR 60.755(c)(5), the site must implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. WM monitors for cover integrity monthly and reports to the site operations personnel of any areas of concern. The site operations personnel then make any necessary repairs. The following is a list of dates when monthly cover integrity monitoring and subsequent improvements/repairs took place (please see Appendix C for a complete copy of the field cover integrity inspection logs):

- January 31, 2020
- February 28, 2020
- March 31, 2020
- April 30, 2020
- May 29, 2020
- June 29, 2020

3.4 GAS COLLECTION SYSTEM INSTALLATIONS AND UPGRADES

The following collection system changes occurred during the reporting period:

Date	Installations, Upgrades, Decommissions, Etc.
January 1, 2020 – June 30, 2020	Fifty (50) new extraction wells were installed and brought online and twenty (20) were decommissioned. The latest map of the current GCCS system is included in Appendix A, dated June 5, 2020.

5.0 TITLE V COMPLIANCE

During the reporting period, the site performed all required monitoring and maintained the appropriate records.

TABLE 1. ESTIMATED LFG FLOWS AND TIME ON-LINE

Flare Station
January 1, 2020 to June 30, 2020

Month	Flare	No. of Hrs. On-line	Average % Methane	Calculated Average Flow Rate When On-line (scfm)
January	No. 3	728.4	48.0	5584
February	No. 3	672.6	44.7	5804
March	No. 3	722.9	46.2	5946
April	No. 3	661.6	45.8	5923
May	No. 3	449.3	46.2	3538
June	No. 3	626.8	43.9	3605

Month	Flare	No. of Hrs. On-line	Average % Methane	Calculated Average Flow Rate When On-line (scfm)
April	No. 4	9.2	46.4	4993
May	No. 4	654.1	46.4	3632
June	No. 4	695.8	43.6	3261

APPENDIX A

Landfill Site Plan

APPENDIX B

Wellhead Monitoring Data

SVLRC Well Data
January - June 2020

SIH1401A	4/10/2020 12:26	58	41.6	0.3	0.1	118	119	-33.6	-33.5
SIH1401A	5/21/2020 14:51	58.5	41.4	0.1	0	119.1	121.7	-34.88	-34.93
SIH1401A	6/5/2020 13:42	58.4	41.5	0	0.1	120	121	-31.9	-31.6
SIH1401B	1/23/2020 8:44	55.5	44	0.3	0.2	130	129	-35	-35.6
SIH1401B	2/7/2020 12:37	56.4	43.5	0	0.1	130	131	-28	-27.8
SIH1401B	2/11/2020 11:49	55	44.9	0	0.1	128	128	-21.2	-21.7
SIH1401B	3/17/2020 14:07	55.8	44.1	0	0.1	125	126	-19.2	-19.8
SIH1401B	4/14/2020 11:57	55.8	44.1	0	0.1	122	123	-17.3	-18.1
SIH1401B	5/29/2020 14:04	54.7	45.3	0	0	127.8	129.2	-17.07	-17.77
SIH1401B	6/15/2020 12:34	55.3	44.6	0	0.1	129	129	-18.7	-18.9
SIH1403A	1/20/2020 8:37	57.4	42.5	0.1	0	92.5	92.5	-39.41	-39.94
SIH1403A	2/5/2020 14:40	46.9	35	3.5	14.6	103	103	-41.3	-43.7
SIH1403A	3/2/2020 14:21	54.7	39.4	1.1	4.8	99	99	-31.8	-31.7
SIH1403A	4/8/2020 8:26	57	41.7	0.7	0.6	97	98	-36	-35.5
SIH1403A	5/13/2020 9:25	56.1	41	0.6	2.3	107	108	-34.2	-34.5
SIH1403A	6/5/2020 14:05	57.3	42.7	0	0	112.6	112.6	-32.85	-32.93
SIH1403B	1/21/2020 14:51	56.4	43.5	0	0.1	121	121	-41	-42.2
SIH1403B	2/7/2020 16:42	56.7	43.1	0.1	0.1	121	121	-36.5	-37.1
SIH1403B	3/30/2020 8:25	55.5	44.4	0	0.1	114	115	-32.4	-32.3
SIH1403B	4/8/2020 15:02	57.3	42.6	0	0.1	117	117	-31.2	-31.8
SIH1403B	5/20/2020 10:50	54.5	45.1	0	0.4	119	120	-30.3	-30
SIH1403B	6/15/2020 17:10	55.8	43.8	0	0.4	120	120	-28.3	-28.2
SIH1404A	1/14/2020 12:54	57.4	41.8	0.1	0.7	108	109	-44.5	-42.1
SIH1404A	2/5/2020 11:24	56.8	43	0	0.2	110	111	-45	-43.7
SIH1404A	3/2/2020 9:40	51.1	38.5	0.9	9.5	106	107	-32.5	-32.6
SIH1404A	4/8/2020 9:15	45.5	39.5	0.3	14.7	112	114	-35.6	-35.7
SIH1404A	5/15/2020 9:27	47.1	38.5	0.2	14.2	117	118	-38.2	-38.4
SIH1404A	6/4/2020 12:53	40.5	35.9	0.3	23.3	116.4	117.8	-34.76	-34.3
SIH1404B	1/21/2020 14:47	54.7	45.2	0	0.1	131	132	-40.9	-40.9
SIH1404B	1/30/2020 8:37	54.7	45.1	0	0.2	128	128	-36.7	-35.5
SIH1404B	2/7/2020 16:46	54.8	45	0	0.2	129	130	-35	-35.7
SIH1404B	3/30/2020 8:29	53.6	46.3	0	0.1	122	122	-31.8	-32.7
SIH1404B	4/8/2020 12:43	56	43.9	0	0.1	81	125	-30.9	-30.9
SIH1404B	5/20/2020 10:44	52.7	46.9	0	0.4	125	125	-27.9	-29.1
SIH1404B	6/15/2020 17:14	53.7	45.8	0	0.5	126	125	-26.5	-26.7
SIH1405A	1/14/2020 13:04	53.3	46.6	0	0.1	95	96	-0.1	-0.1
SIH1405A	1/16/2020 8:41	38.4	34.9	0.5	26.2	89	88	-21.6	-21.6
SIH1405A	2/5/2020 11:36	53.3	46.6	0	0.1	111	124	-0.2	-0.1
SIH1405B	1/22/2020 10:02	54	43.9	0	2.1	108	110	-17.6	-18.3
SIH1405B	2/7/2020 17:42	53.3	43.8	0	2.9	95	94	-18.3	-18.7
SIH1405B	3/17/2020 13:53	54.5	45.4	0	0.1	114	113	-18.3	-14.5
SIH1405B	3/30/2020 8:34	51.7	43.4	0	4.9	115	116	-33.6	-34.8
SIH1405B	4/13/2020 13:16	54.3	41.9	0	3.8	119	119	-34.2	-33.9
SIH1405B	5/22/2020 10:04	45.4	40.9	0.7	13	125	125	-34.7	-34.8
SIH1405B	6/3/2020 16:49	47	39.2	0	13.8	125	127	-37.6	-37.4
SIH1406A	1/22/2020 8:27	29.8	29.6	1.9	38.7	103	104	-25.9	-25.9
SIH1406A	2/5/2020 12:33	29.5	29	2	39.5	108	108	-25.4	-25.4
SIH1406A	3/2/2020 13:44	40.2	31.7	3.4	24.7	94	94	-12.5	-12.4
SIH1406A	4/8/2020 12:30	45.7	36	2.3	16	86	87	-13.4	-13.3
SIH1406A	5/18/2020 14:03	43.1	33.7	3	20.2	95.5	96	-9.46	-9.61

SVLRC Well Data
January - June 2020

SIM1567D	6/15/2020 16:25	38	36	3.9	22.1	110	110	-4.1	-4.1
SIM1567S	1/20/2020 14:10	52.5	46.3	0.3	0.9	132.3	133.6	-34.99	-34.81
SIM1567S	1/30/2020 14:44	51.6	45.8	0.2	2.4	129	128	-35.9	-35.1
SIM1567S	2/6/2020 9:05	51.7	43.6	0.6	4.1	120	120	-19.1	-19.3
SIM1567S	3/5/2020 14:28	0.6	1.8	17.7	79.9	83	81	-19.9	-14.7
SIM1567S	3/10/2020 9:22	0.8	2.5	18.6	78.1	71	64	-11.3	-11.7
SIM1567S	4/10/2020 11:17	21	20.1	10.7	48.2	102	102	-23.1	-15.8
SIM1567S	5/22/2020 9:54	52.8	47.1	0	0.1	82.2	86.1	-0.8	-1.87
SIM1567S	6/18/2020 16:44	50	49.9	0	0.1	82	86	-0.2	-0.8
SIM1568D	1/20/2020 13:59	45.1	40.6	2.5	11.8	127.8	128.4	-37.82	-37.87
SIM1568D	2/6/2020 13:04	44.5	38.8	2.1	14.6	130	130	-39	-37.6
SIM1568D	3/5/2020 14:38	49.8	42	0.8	7.4	122	122	-31.6	-30.1
SIM1568D	4/10/2020 11:01	52.8	46.9	0.2	0.1	120	121	-33.3	-33.4
SIM1568D	5/21/2020 8:40	51.6	44.6	0.7	3.1	127.4	127.4	-34.7	-34.71
SIM1568D	6/9/2020 13:13	52.6	45.4	0.5	1.5	126.6	127.3	-26.97	-27.05
SIM1568S	1/20/2020 14:02	46.1	38.8	0.1	15	128.4	128.5	-25.77	-25.82
SIM1568S	2/6/2020 13:06	47.9	39.1	0.5	12.5	126	128	-23.8	-23.7
SIM1568S	3/5/2020 14:40	49.6	39.4	0	11	125	125	-23	-21.1
SIM1568S	4/10/2020 11:03	49.4	43.1	0	7.5	125	125	-23.7	-23.8
SIM1568S	5/21/2020 8:42	55.3	41.6	0	3.1	127.9	128.6	-24.37	-24.48
SIM1568S	6/9/2020 13:15	55.1	41.3	0.2	3.4	129.2	129.4	-20.25	-20.26
SIM1570D	1/8/2020 11:29	56.6	43.3	0	0.1	89	89	-39.5	-39.6
SIM1570D	2/6/2020 15:24	54.8	41	0.2	4	86	86	-38.3	-39
SIM1570D	3/17/2020 12:38	53.6	41	1.2	4.2	88	82	-33.6	-33.9
SIM1570D	4/10/2020 14:45	53.6	43.6	0.5	2.3	82	79	-35.4	-35.3
SIM1570D	5/22/2020 7:10	54.5	43	0.6	1.9	99	96	-37.7	-37.7
SIM1570D	6/4/2020 12:23	55.2	42.4	0.1	2.3	103	103	-35.3	-35.4
SIM1570S	1/8/2020 11:34	42.1	39.5	0	18.4	134	134	-3.7	-3
SIM1570S	1/30/2020 12:03	45.9	39	0	15.1	134	134	-2.5	-2.6
SIM1570S	1/30/2020 14:57								
SIM1570S	1/31/2020 21:12								
SIM1570S	2/6/2020 15:27	46.6	39.8	0	13.6	132	134	-2.4	-2.6
SIM1570S	3/17/2020 12:40	48.8	40.7	0	10.5	131	132	-2.6	-2.8
SIM1570S	4/10/2020 14:49	41.8	37.9	0	20.3	136	136	-3.6	-3.6
SIM1570S	5/21/2020 8:18	44.2	39.9	0	15.9	135	135	-4	-3.6
SIM1570S	6/4/2020 12:29	46.1	38.9	0	15	133	133	-2.7	-2.9
SIM1572D	1/22/2020 14:35	39.5	35.8	0	24.7	115	117	-10	-9.7
SIM1572D	2/7/2020 18:00	40.2	35.7	0	24.1	114	115	-6.7	-6.7
SIM1572D	3/17/2020 13:30	42.7	37.1	0	20.2	112	113	-6.7	-6.7
SIM1572D	4/13/2020 12:59	41.3	36	0	22.7	114	115	-7.8	-7.8
SIM1572D	5/22/2020 9:01	43.8	36.7	0	19.5	115	115	-7.8	-7.8
SIM1572D	6/3/2020 16:59	43.5	34.3	0	22.2	114	114	-6.8	-6.6
SIM1572S	1/22/2020 14:37	41.9	36.7	0	21.4	115	116	-1.2	-1.2
SIM1572S	2/7/2020 18:07	43.7	36.3	0	20	115	115	-0.4	-0.4
SIM1572S	3/17/2020 13:33	45.3	37.5	0.2	17	110	116	-0.9	-1.6
SIM1572S	4/13/2020 13:01	35.9	34.2	0	29.9	124	124	-3.5	-3
SIM1572S	5/22/2020 9:05	46.6	38.3	0	15.1	123	123	-1.8	-1.8
SIM1572S	6/3/2020 17:01	45.1	35.2	0	19.7	122	122	-1.3	-1.4
SIM1573D	1/14/2020 8:53	31.6	25.1	6.7	36.6	89	75	-41.6	-41.3
SIM1573D	1/24/2020 14:30	47.4	34.4	0.6	17.6	105	110	-28.2	-27.9

SVLRC Well Data
January - June 2020

SIM1780D	1/30/2020 14:59	56.8	42.7	0.1	0.4	129	128	-33.5	-33.5
SIM1780D	2/6/2020 13:10	55.9	44	0	0.1	128	129	-32.6	-31.1
SIM1780D	3/5/2020 13:07	57	42.4	0.4	0.2	129	129	-26.6	-26.8
SIM1780D	4/10/2020 12:39	55.1	44.8	0	0.1	129	130	-30.3	-30.2
SIM1780D	5/21/2020 14:16	58.5	41.2	0.2	0.1	127.8	128.2	-31.3	-31.36
SIM1780D	6/5/2020 15:45	56.1	43.7	0	0.2	130	130	-28.4	-28.4
SIM1780S	1/20/2020 15:49	57.4	42.6	0	0	123.7	124.1	-34.04	-34.04
SIM1780S	2/6/2020 13:12	55.1	39.7	0.6	4.6	123	124	-31.4	-31.4
SIM1780S	3/5/2020 13:09	57.7	39.6	0.6	2.1	123	124	-29.1	-26.8
SIM1780S	4/10/2020 12:41	53.3	42	0.8	3.9	121	122	-30.2	-30.2
SIM1780S	5/21/2020 14:23	55.6	44.4	0	0	132.2	132.3	-30.61	-30.7
SIM1780S	5/27/2020 8:26	56.7	40.4	0.6	2.3	128	128.2	-30.36	-30.3
SIM1780S	6/5/2020 15:51	58.9	41	0	0.1	125	126	-28.6	-28.7
SIM1782D	1/20/2020 8:23	54.7	45.2	0.1	0	132.8	132.6	-39.32	-39.25
SIM1782D	1/30/2020 14:00	55.2	44.7	0	0.1	131	132	-38.3	-38.2
SIM1782D	1/30/2020 14:56								
SIM1782D	2/5/2020 14:29	55.4	44.5	0	0.1	132	132	-39.7	-39.6
SIM1782D	2/11/2020 14:48	56.2	43.5	0.2	0.1	131	133	-29.5	-27.5
SIM1782D	3/2/2020 14:29	55.9	43.9	0	0.2	130	129	-29.7	-30.3
SIM1782D	4/8/2020 8:16	54.3	45.3	0.3	0.1	132	132	-36.9	-33.6
SIM1782D	4/22/2020 9:52	56.3	43	0.2	0.5	132	132	-32.8	-32.5
SIM1782D	4/22/2020 17:56								
SIM1782D	5/13/2020 9:13	55	44.8	0	0.2	133	134	-33	-32.3
SIM1782D	6/5/2020 13:48	55.8	43.6	0.5	0.1	134.3	134.4	-32.29	-32.32
SIM1782D	6/24/2020 15:47								
SIM1782S	1/20/2020 8:27	56.7	40.7	1	1.6	105	105.2	-40.63	-39.92
SIM1782S	2/5/2020 14:32	48.1	36.2	2.4	13.3	103	104	-41.8	-41.1
SIM1782S	3/2/2020 14:31	55.6	40.4	0.8	3.2	95	96	-30.3	-30.6
SIM1782S	4/8/2020 8:19	57.2	41.2	0.6	1	99	100	-34.7	-34.6
SIM1782S	5/13/2020 9:17	58.5	40.8	0.6	0.1	103	100	-33.6	-33.4
SIM1782S	6/5/2020 13:50	58.1	41.8	0.1	0	107.3	108	-33.72	-33.59
SIM1783D	1/13/2020 12:23	55.6	39.3	1	4.1	113	114	-39.9	-39.8
SIM1783D	2/5/2020 10:50	50	36.8	2.6	10.6	115	115	-39.6	-40.6
SIM1783D	3/2/2020 8:20	50.9	40.6	1.8	6.7	105	105	-30.4	-30.4
SIM1783D	4/8/2020 8:36	55.3	44.1	0.4	0.2	111	113	-33.6	-33.7
SIM1783D	5/13/2020 9:36	54.7	42.5	0.7	2.1	117	118	-32.7	-32.7
SIM1783D	6/4/2020 8:34	51.1	40	1.6	7.3	120.3	120.5	-32.59	-32.6
SIM1783S	1/13/2020 12:25	44	35.4	0.2	20.4	123	124	-36	-35.8
SIM1783S	2/5/2020 10:52	41.5	34.2	2	22.3	124	124	-35.9	-35.7
SIM1783S	3/2/2020 8:22	42.8	37.4	1	18.8	123	123	-27.5	-27.2
SIM1783S	4/8/2020 8:38	46.6	39.1	0.7	13.6	123	123	-30.3	-30.5
SIM1783S	5/13/2020 9:38	50.5	40.3	0	9.2	124	124	-29.6	-29.5
SIM1783S	6/4/2020 8:37	47.5	39	0.2	13.3	126	125.9	-29.82	-29.9
SIM1788D	1/16/2020 8:32	52.3	47.6	0	0.1	138	139	-42.3	-42.3
SIM1788D	2/5/2020 12:27	55.7	43.8	0.3	0.2	133	136	-43.7	-42.4
SIM1788D	3/2/2020 13:48	54.1	45.5	0.2	0.2	134	135	-31.8	-31.9
SIM1788D	4/8/2020 12:24	53.2	46.6	0	0.2	137	138	-35.9	-36
SIM1788D	5/18/2020 13:52	53.5	46.4	0.1	0	139.9	140.3	-38.13	-38.11
SIM1788D	5/26/2020 9:12	53.2	46.8	0	0	139.3	139.6	-34.64	-34.69
SIM1788D	6/5/2020 13:36	53.9	46.1	0.1	-0.1	135.7	139.3	-34.03	-34.14

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SIM1799D	6/5/2020 13:00	46.5	39.2	3	11.3	79.2	79.2	-31.36	-31.43
SIM1799S	1/16/2020 9:21	43.5	38.8	2	15.7	119	120	-29.6	-29.7
SIM1799S	2/5/2020 12:57	41.7	34.9	3.3	20.1	119	120	-31.2	-31
SIM1799S	3/2/2020 14:40	51.1	40.8	0.8	7.3	121	122	-24.4	-26.3
SIM1799S	4/8/2020 7:57	44.2	41.3	0	14.5	122	122	-29.6	-29.5
SIM1799S	5/22/2020 11:49	48.3	41.8	0	9.9	124.4	124.6	-30.04	-30.06
SIM1799S	6/5/2020 13:03	50.2	41.6	0.1	8.1	124.2	124.7	-26.88	-26.97
SIM1805D	1/20/2020 13:40	56.5	43.4	0	0.1	131.2	131.8	-37.36	-37.24
SIM1805D	1/30/2020 14:32	55.8	42.2	0.1	1.9	136	136	-34.4	-34.2
SIM1805D	1/31/2020 14:56								
SIM1805D	2/6/2020 12:49	57.7	41.8	0.4	0.1	128	129	-33	-32.7
SIM1805D	3/5/2020 14:48	57.5	41.9	0.2	0.4	129	129	-31.4	-28.8
SIM1805D	4/10/2020 10:49	57.2	42.5	0.2	0.1	133	133	-32.8	-33
SIM1805D	4/22/2020 9:59	58.4	41.4	0	0.2	134	134	-34.1	-31.8
SIM1805D	4/22/2020 17:56								
SIM1805D	5/21/2020 8:22	56.9	42.3	0.1	0.7	132.5	132.7	-33.18	-33.24
SIM1805D	6/9/2020 13:30	57.1	42	0	0.9	136.8	136.9	-26.6	-26.62
SIM1805D	6/24/2020 15:43	57	42.8	0	0.2	130	130	-27	-26.9
SIM1805D	6/24/2020 15:45								
SIM1805S	1/20/2020 13:44	44.2	36.2	3.7	15.9	131.9	132	-32.26	-32.24
SIM1805S	1/30/2020 14:35	57	41.9	0	1.1	130	129	-37.2	-37.6
SIM1805S	1/30/2020 14:56								
SIM1805S	2/6/2020 12:55	54.5	38.7	1.3	5.5	134	134	-31.7	-31.4
SIM1805S	2/11/2020 14:20	49.2	37.8	1.9	11.1	131	131	-23.9	-23.9
SIM1805S	3/5/2020 14:51	56.6	43.3	0	0.1	130	129	-25.6	-25.6
SIM1805S	4/10/2020 10:51	55.4	44.4	0	0.2	135	136	-32.4	-29.7
SIM1805S	4/22/2020 10:01	56.3	43.6	0	0.1	136	137	-31.7	-28.8
SIM1805S	4/22/2020 17:57								
SIM1805S	5/21/2020 8:25	55.7	44.2	0	0.1	138.6	138.8	-30.58	-29.38
SIM1805S	6/9/2020 13:32	56.2	43.4	0.1	0.3	139.1	139.1	-24.17	-24.22
SIM1805S	6/24/2020 15:45								
SIM1805S	6/24/2020 15:46	55.1	44.7	0.1	0.1	136	136	-25	-24.9
SIM1922S	1/20/2020 15:11	42.5	30.6	3.8	23.1	107.1	107.1	-0.07	-0.14
SIM1922S	2/6/2020 9:38	47.6	37.6	0.6	14.2	94	95	0	-0.2
SIM1922S	3/5/2020 13:37	25.6	22.9	2	49.5	94	85	-0.3	0
SIM1922S	3/10/2020 9:31	37.2	37.4	0.8	24.6	78	76	-0.4	-0.4
SIM1922S	4/10/2020 11:58	52.8	36.1	0	11.1	75	80	-0.2	-0.6
SIM1922S	5/22/2020 8:15	20.4	22	4.7	52.9	116.3	115.8	-1.67	-1.42
SIM1922S	6/4/2020 10:52	28.1	27.1	1.6	43.2	114.9	115.1	-0.6	-0.66
SIM1922S	6/5/2020 16:27	31.1	28.7	1	39.2	105	104	-0.3	-0.3
SIM1923S	1/20/2020 14:34	51.9	38.9	0.1	9.1	113.1	116.7	-0.11	-0.43
SIM1923S	2/6/2020 9:21	44	36.4	0.3	19.3	118	119	-0.3	-0.3
SIM1923S	3/5/2020 13:56	36.5	31.2	0.5	31.8	125	125	-0.4	-0.4
SIM1923S	4/10/2020 11:36	53.3	38.5	0	8.2	112	113	-0.3	-0.7
SIM1923S	5/22/2020 9:01	28.3	25.4	4.3	42	139.5	126.5	-0.97	-0.14
SIM1923S	6/5/2020 17:10	57.3	42.6	0	0.1	80	111	0	-0.4
SIM1924S	1/13/2020 10:32	0.8	2.4	19.5	77.3	70	67	-39.8	0
SIM1924S	1/21/2020 8:03	59.6	40	0.5	-0.1	64	60.3	0.09	-0.11
SIM1924S	2/6/2020 13:53	58.8	41.1	0	0.1	82	83	0	0
SIM1924S	2/11/2020 13:49	58.5	41.3	0	0.2	83	85	0	-0.2

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SIM1930S	5/27/2020 10:56	44.7	33	3.6	18.7	123	123.1	-1.13	-1.19
SIM1930S	6/4/2020 15:23	45.5	33.2	3.3	18	117	119	-1.2	-0.8
SIM1930S	6/18/2020 16:29	57.2	42.5	0.1	0.2	117	118	-0.2	-0.9
SIM1931S	1/21/2020 8:46	56	41.2	0.6	2.2	115	115.7	-0.44	-1.35
SIM1931S	2/7/2020 12:08	39.3	30.4	4.8	25.5	111	112	-1.8	-1.5
SIM1931S	3/17/2020 11:00	46.4	34.8	3.5	15.3	110	110	-1.1	-1.4
SIM1931S	4/13/2020 9:50	42.5	31.4	4.5	21.6	111	112	-1.8	-1.5
SIM1931S	5/22/2020 10:56	45.5	33.5	3.4	17.6	119	119.1	-1.1	-1.1
SIM1931S	6/4/2020 15:29	45.8	33.5	3	17.7	115	115	-1	-0.4
SIM1931S	6/18/2020 16:26	57.1	42.7	0.1	0.1	111	112	-0.1	-0.9
SIM1932S	1/21/2020 8:39	57.1	42.6	0.3	0	114.6	114.6	-0.57	-0.6
SIM1932S	1/21/2020 8:41	54.2	40.4	0	5.4	90	100	-0.5	-0.8
SIM1932S	2/7/2020 12:05	55.8	40.9	0.4	2.9	114	115	-0.7	-0.7
SIM1932S	3/17/2020 11:03	55.8	41.4	0.7	2.1	113	113	-1.5	-1.6
SIM1932S	4/13/2020 9:59	55.5	39.8	0.8	3.9	112	112	-2	-2.1
SIM1932S	5/27/2020 10:38	45.4	34.4	3.3	16.9	120.2	120.7	-0.4	-0.38
SIM1932S	6/4/2020 15:51	52.7	38.5	1	7.8	113	113	-2.2	-2.1
SIM1933S	1/21/2020 8:21	56.8	43.2	0	0	106.7	106.7	-0.1	-0.2
SIM1933S	2/7/2020 11:56	57.9	42	0	0.1	109	110	-0.2	-0.5
SIM1933S	3/17/2020 11:09	56.7	43.2	0	0.1	102	107	0.2	-0.9
SIM1933S	4/13/2020 10:04	37.8	28.1	6.2	27.9	106	106	-1.6	-0.7
SIM1933S	4/20/2020 10:19	46.3	33.7	3.4	16.6	116	117	-0.6	-0.6
SIM1933S	5/22/2020 10:45	47.4	35.5	2.8	14.3	121.1	121.4	-0.14	-0.21
SIM1933S	6/4/2020 15:56	45.5	33.7	3.1	17.7	117	117	-0.4	-0.3
SIM1934S	1/21/2020 9:42	28.9	31	0.4	39.7	81	80	-0.5	-0.5
SIM1934S	2/7/2020 15:22	37.3	33.9	0.2	28.6	84	85	-0.2	-0.2
SIM1934S	3/4/2020 8:51	3.7	18.2	2	76.1	121	119	-1.7	-1.4
SIM1934S	3/12/2020 8:51	1.4	3.6	18.3	76.7	66	67	-0.5	-0.5
SIM1934S	3/12/2020 19:03								
SIM1935S	1/21/2020 9:38	54.9	45	0	0.1	118	119	-0.1	-0.4
SIM1935S	2/7/2020 15:17	52.2	42.5	0	5.3	118	124	-0.3	-0.5
SIM1935S	3/4/2020 8:59	6.1	15.4	3.7	74.8	126	123	-1.6	-0.5
SIM1935S	3/12/2020 8:54	19.1	26.3	4	50.6	76	77	0	0
SIM1935S	3/12/2020 19:02								
SIM1936S	1/23/2020 15:17	41.1	33.8	1.9	23.2	105	105	-1.2	-1.1
SIM1936S	2/7/2020 15:13	44.5	36.2	1.1	18.2	105	106	-0.8	-1
SIM1936S	3/4/2020 9:06	27	24.5	4.7	43.8	103	105	-8.7	-4
SIM1936S	4/3/2020 8:27	39.4	32.5	2.5	25.6	106	106	-2.4	-2.4
SIM1936S	5/14/2020 12:32	39.6	32.2	2.2	26	109	109	-2.2	-2.2
SIM1936S	6/3/2020 10:43	35	30.6	2.9	31.5	108	108	-2.2	-1.9
SIM1937S	1/22/2020 9:53	28.6	32.6	0.7	38.1	97	97	-0.3	-0.3
SIM1937S	2/7/2020 17:28	26.7	30.4	0.4	42.5	88	89	-0.1	-0.3
SIM1937S	3/17/2020 13:58	30.6	33.1	0.2	36.1	92	92	-0.2	-0.2
SIM1937S	5/20/2020 10:58	23	31.9	0.2	44.9	94	94	-0.1	-0.1
SIM1937S	6/3/2020 16:43	23.2	30.3	0.1	46.4	101	102	-0.1	-0.1
SIM1938S	2/8/2020 9:46	22.7	26.5	0.7	50.1	97	90	-0.1	-0.1
SIM1938S	3/5/2020 9:16	57.3	38.7	0.1	3.9	85	88	-0.1	-0.1
SIM1938S	4/14/2020 11:14	59.2	40.4	0.2	0.2	81	85	0	-0.2
SIM1938S	5/22/2020 12:21	50.9	33.7	0.2	15.2	91.8	91.9	-0.01	-0.07
SIM1938S	6/5/2020 10:46	46.4	33.3	0	20.3	96.1	96.3	-0.6	-0.72

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SIM2052S	5/27/2020 8:58	47.7	40.8	0	11.5	135.7	136	-4.62	-4.58
SIM2052S	6/5/2020 17:21	52.2	41.8	0	6	133	134	-2.8	-3.1
SIM2052S	6/24/2020 13:38	50.6	41.6	0	7.8	134	134	-3.5	-3.9
SIM2052S	6/24/2020 15:44								
SIM2054D	2/18/2020 14:55	58.1	41.7	0	0.2	88	73	183.9	-0.6
SIM2054D	3/2/2020 9:49	55.3	42.1	0.6	2	119	119	-31.2	-31.1
SIM2054D	3/10/2020 9:08	55.5	44	0.3	0.2	119	119	-31.6	-31.4
SIM2054D	4/8/2020 11:34	57.6	42.1	0.1	0.2	119	120	-34.4	-34.4
SIM2054D	5/15/2020 10:08	59	40.7	0.2	0.1	126	128	-36.5	-36.3
SIM2054D	6/4/2020 13:04	58.1	40.4	0	1.5	129.1	129.2	-32.86	-32.78
SIM2054S	2/18/2020 14:57	26.6	24.9	9.6	38.9	75	85	0	-0.6
SIM2054S	2/18/2020 14:59	51.3	48.4	0.1	0.2	122	126	-1.1	-1.4
SIM2054S	3/2/2020 9:51	35.7	36.7	0	27.6	135	131	-5.7	-4.5
SIM2054S	3/10/2020 9:10	48.1	42.7	0.4	8.8	124	128	-1.9	-2
SIM2054S	4/8/2020 11:37	41.2	35.4	0.5	22.9	124	123	-3.1	-3.2
SIM2054S	5/15/2020 10:10	48.7	37.2	0.6	13.5	129	131	-2.8	-3
SIM2054S	5/26/2020 9:53	40.8	36.8	0.6	21.8	129.7	129.9	-3.31	-3.34
SIM2054S	6/4/2020 13:09	46.9	39.5	0	13.6	131.7	133.4	-2.77	-2.98
SIM2054S	6/12/2020 16:55	44.2	37.8	0	18	123	124	-4	-4
SIM2061D	2/21/2020 13:12	0.1	0.3	20.1	79.5	78	80	0	-22.7
SIM2061D	2/21/2020 13:16	10.5	11.5	14.8	63.2	77	77	-27.1	-27
SIM2061D	2/25/2020 8:10	54.4	45.4	0	0.2	73	69	24.4	-30.9
SIM2061D	2/25/2020 8:11	54.4	45.4	0	0.2	73	66	24.4	-30.7
SIM2061D	3/5/2020 13:44	1.5	1.6	18.6	78.3	79	78	-27.4	-27.1
SIM2061D	3/10/2020 9:27	9.1	8.2	17.3	65.4	67	64	-26.5	-25.6
SIM2061D	4/10/2020 11:48	50.2	49.5	0.1	0.2	65	65	0	-1.9
SIM2061D	4/20/2020 13:14	14.1	11.5	14.5	59.9	68	66	-0.3	-0.1
SIM2061D	5/5/2020 16:03	40.9	39.2	4.1	15.8	91	92	-20.6	-21
SIM2061D	5/22/2020 8:31	1.2	1.2	19.5	78.1	77.1	77.7	-31.2	-31.64
SIM2061D	6/3/2020 14:19	44.3	31.5	4.3	19.9	105	105	-7.3	-10.5
SIM2061D	6/5/2020 16:42	54.6	44.6	0.3	0.5	109	110	-8.8	-17.8
SIM2061S	2/21/2020 13:19	55.8	43.3	0	0.9	87	118	1.3	-0.1
SIM2061S	3/5/2020 13:46	36.7	34.1	0.2	29	132	130	-3.7	-2.5
SIM2061S	4/10/2020 11:51	42.5	37.3	0.3	19.9	124	124	-1.2	-1.2
SIM2061S	5/22/2020 8:34	19.1	23.6	4.1	53.2	133.6	128.9	-1.92	-1.86
SIM2061S	6/4/2020 10:34	53.1	40.4	0.5	6	121	128.3	-1.04	-1.27
SIM2061S	6/5/2020 16:47	44.4	38.7	0.6	16.3	136	136	-1.2	-1.2
SIM2061S	6/12/2020 16:30	27.9	28.8	1.9	41.4	134	132	-1.3	-1.2
SIM2061S	6/24/2020 13:17	54	41.7	0.7	3.6	81	103	-0.3	-0.5
SIM2064D	2/7/2020 14:07	13.8	14.8	14.3	57.1	76	72	-35.7	0
SIM2064D	2/8/2020 10:09	40	44.8	2.8	12.4	72	75	7.7	-7
SIM2064D	3/2/2020 8:52	16.1	21.3	13.2	49.4	61	60	-20.8	-14.1
SIM2064D	3/10/2020 9:01	0.3	0.6	18.3	80.8	56	55	-15.5	-6
SIM2064D	3/16/2020 11:37	35.9	45.8	4.7	13.6	55	53	-6.7	-7.6
SIM2064D	4/8/2020 11:56	36.2	36.9	1.5	25.4	69	68	-21.9	-23.2
SIM2064D	5/15/2020 9:09	12.5	20.8	13.1	53.6	81	80	-27	0
SIM2064D	5/27/2020 9:49	26.8	43.5	6.6	23.1	91.6	91.7	-24.56	-25.1
SIM2064D	6/4/2020 12:22	35.7	40.7	3.6	20	106.8	109.6	-30.71	-28.99
SIM2064S	2/7/2020 14:10	46.8	47.5	0.1	5.6	122	123	-3.1	-3.1
SIM2064S	2/19/2020 8:10	50.6	48	0.3	1.1	134	138	-2.8	-3.3

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SIMH022N	4/3/2020 9:01	41.3	35.9	0.2	22.6	119	119	-4.4	-4.4
SIMH022N	5/27/2020 13:20	45.6	37.5	0	16.9	122.6	122.7	-3.72	-3.79
SIMH022N	6/18/2020 16:53	45.9	38.8	0	15.3	120	120	-3.5	-3.8
SIMH022S	1/23/2020 9:28	45.2	51.5	0.9	2.4	67	66	-48.7	-48.7
SIMH022S	2/8/2020 10:51	43.4	48.5	1.6	6.5	76	77	-41.3	-41.4
SIMH022S	3/25/2020 11:23	45.7	51.4	0.7	2.2	65	65	-37.9	-38
SIMH022S	4/3/2020 9:20	42.7	52.6	1.1	3.6	69	69	-36.7	-36.7
SIMH022S	5/29/2020 15:28	46.2	53.2	0.6	0	89.4	90.4	-30.92	-31
SIMH022S	6/15/2020 17:37	42.1	49.9	1.6	6.4	98	99	-34.8	-34.7
SIMI0901	1/21/2020 9:57	44.2	35.1	0	20.7	115	115	-16.8	-16.8
SIMI0901	2/7/2020 13:25	46.7	36.9	0.1	16.3	114	114	-18.3	-18.3
SIMI0901	3/26/2020 9:27	44	34.1	0.2	21.7	113	113	-17.9	-17.8
SIMI0901	4/3/2020 8:53	45.2	36.4	0	18.4	113	113	-17	-17.6
SIMI0901	5/29/2020 14:49	46.5	38.2	0	15.3	115.3	115.3	-12.78	-12.28
SIMI0901	6/3/2020 11:31	44.6	35.9	0	19.5	113	113	-17.6	-17.9
SIMI0902	1/21/2020 13:13	40.8	32.9	0.1	26.2	111	112	-2.6	-2.5
SIMI0902	2/7/2020 13:30	46.7	35.6	0.1	17.6	111	111	-2.9	-2.9
SIMI0902	3/19/2020 10:59	44	36.6	0.1	19.3	108	108	-3.2	-3.3
SIMI0902	4/8/2020 10:12	43.2	34.8	0	22	107	107	-2.7	-2.8
SIMI0902	5/18/2020 13:10	48.3	37.7	0.1	13.9	105	106	-2.4	-2.4
SIMI0902	6/3/2020 11:44	48.8	37.7	0	13.5	107	107	-2	-2.2
SIMI0903	1/21/2020 13:21	45.9	36.1	0	18	110	110	-5.5	-5.7
SIMI0903	2/7/2020 13:34	43.8	34.4	1.3	20.5	108	109	-7.2	-7.2
SIMI0903	3/19/2020 11:03	46.6	37.8	0	15.6	108	109	-7.5	-8.3
SIMI0903	4/8/2020 10:17	44.7	35.6	0	19.7	110	108	-8.2	-8.2
SIMI0903	5/18/2020 13:19	44.2	37.8	0.1	17.9	110	110	-9	-8.7
SIMI0903	6/3/2020 11:49	46.1	36.6	0	17.3	109	109	-7.9	-8.1
SIMI0904	1/21/2020 13:25	43.6	35.7	0	20.7	127	127	-7.1	-3.6
SIMI0904	2/7/2020 13:42	45.6	37	0	17.4	125	125	-3.5	-3.4
SIMI0904	3/19/2020 11:08	46.6	38.7	0	14.7	123	124	-3.3	-3.7
SIMI0904	4/8/2020 10:26	40.3	35.3	0	24.4	127	127	-4.7	-4.5
SIMI0904	5/18/2020 13:27	42.4	38	0.1	19.5	125	126	-4.1	-4
SIMI0904	6/3/2020 11:56	44.3	37.3	0	18.4	125	125	-3.5	-3.5
SIMI0904	6/29/2020 18:22	45.5	38.2	0.2	16.1	125	126	-3.2	-3.6
SIMI0905	1/21/2020 13:29	46.2	36.6	0	17.2	126	126	-6.9	-7.5
SIMI0905	2/7/2020 13:51	43.8	36	0	20.2	125	125	-7.2	-7.3
SIMI0905	3/19/2020 11:20	47.5	38.4	0	14.1	123	124	-6.7	-7.8
SIMI0905	4/8/2020 10:32	42.4	35.6	0	22	127	127	-8.8	-7.6
SIMI0905	5/18/2020 13:31	51.3	40.9	0.1	7.7	125	125	-6.2	-7
SIMI0905	6/3/2020 12:02	48.1	38.2	0	13.7	124	124	-7.5	-7.9
SIMI0905	6/29/2020 18:26	47.1	39.2	0.5	13.2	124	125	-7.2	-8.4
SIMLR00A	1/22/2020 11:25	0	0.2	20.4	79.4	74	71	-34.6	-0.1
SIMLR00A	2/5/2020 14:15	0	0.2	20.2	79.6	78	78	-27.3	-27.9
SIMLR00A	3/5/2020 9:53	25.7	18.5	11	44.8	83	83	-21.2	-21.4
SIMLR00A	5/29/2020 14:26	0.4	0.3	20.6	78.7	91	86.7	-16.48	-13.38
SIMLR00A	6/24/2020 15:36	57.7	41.2	0.4	0.7	97	97	-28	-28
SIMLR00B	1/23/2020 9:11	58.5	38.8	0.5	2.2	74	74	-46.1	-46.3
SIMLR00B	2/8/2020 10:46	56.8	36.7	1.2	5.3	78	79	-41.5	-41.4
SIMLR00B	3/20/2020 9:39	59	38.5	0.8	1.7	69	67	-33.3	-33.5
SIMLR00B	4/3/2020 9:16	58.2	38.9	0.6	2.3	76	76	-34.2	-34.1

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SIMW0006	2/19/2020 9:38	46	35.1	0.3	18.6	90	91	-23.3	-23
SIMW0006	3/24/2020 10:03	43.3	34.9	0	21.8	87	87	-24.3	-24.4
SIMW0006	4/7/2020 11:47	42.5	33.2	0	24.3	90	89	-24	-24
SIMW0006	5/22/2020 14:40	42.9	34.7	0.1	22.3	91	91	-25.4	-24.6
SIMW0006	6/5/2020 12:14	43.5	34.6	0	21.9	88	89	-22.7	-21.1
SIMW0018	1/23/2020 12:52	40.1	33.9	0	26	84	85	-0.1	0
SIMW0018	1/24/2020 15:21	40	33.9	0.1	26	81	81	-0.1	-0.2
SIMW0018	2/8/2020 13:29	43.5	33.9	0.2	22.4	82	84	0.2	-0.1
SIMW0018	3/24/2020 9:41	34.8	33.2	0.1	31.9	82	83	-1.2	-0.9
SIMW0018	4/7/2020 12:36	30.8	31.3	0.1	37.8	58	46	-0.9	-0.9
SIMW0018	5/22/2020 13:31	32.7	31.8	0.4	35.1	86	86	-1	-0.8
SIMW0018	6/5/2020 11:24	35.8	33	0.2	31	76	76	-0.4	-0.3
SIMW0019	1/23/2020 13:39	40.3	33.4	0	26.3	83	83	-9	-9
SIMW0019	2/8/2020 12:28	40.9	33.9	0.3	24.9	82	82	-6	-8.3
SIMW0019	3/24/2020 9:24	40.1	34.2	0	25.7	77	77	-9.1	-9.2
SIMW0019	4/7/2020 12:13	39.8	33.4	0	26.8	80	80	-8.7	-7.4
SIMW0019	5/22/2020 13:53	43.9	34.8	0	21.3	81	81	-6.1	-6.4
SIMW0019	6/5/2020 11:11	45.6	34.8	0	19.6	79	79	-6.1	-5.4
SIMW0020	1/23/2020 13:27	45.6	30.5	2.1	21.8	86	86	-38	-38.5
SIMW0020	2/8/2020 12:45	50.4	36	0	13.6	83	83	-35.9	-36.5
SIMW0020	3/25/2020 11:13	49.3	35.4	0.1	15.2	76	76	-41.2	-41.8
SIMW0020	4/7/2020 11:57	44.4	33.1	0	22.5	77	31	-39.9	-40.8
SIMW0020	5/22/2020 14:01	46.6	35.9	0	17.5	83	83	-31.4	-31
SIMW0020	6/5/2020 12:01	45.6	35.1	0	19.3	81	82	-29.5	-36
SIMW0031	1/22/2020 9:40	50.9	39.8	1.5	7.8	105	106	-33.2	-33.9
SIMW0031	2/8/2020 10:36	49.7	36.2	1.9	12.2	104	105	-27.3	-26.9
SIMW0031	3/17/2020 14:18	57.9	41.7	0.3	0.1	102	102	-18.6	-18.7
SIMW0031	4/14/2020 11:53	57.5	42.4	0	0.1	103	104	-14.5	-14.7
SIMW0031	5/27/2020 13:07	51.6	36.3	2	10.1	109.9	110.3	-18.03	-18.02
SIMW0031	6/5/2020 8:07	58.7	41.1	0.1	0.1	105	105.3	-22.8	-22.88
SIMW0035	1/23/2020 8:38	2.7	8.4	13.9	75	73	69	-29.3	-29.3
SIMW0035	1/24/2020 14:07	0	0.4	20	79.6	80	80	-1.6	-1.5
SIMW0035	1/30/2020 15:16	1.7	6.7	13.8	77.8	74	74	0	-0.1
SIMW0035	2/6/2020 13:59	0.9	7.1	15.8	76.2	79	78	-4.6	-4.5
SIMW0035	2/11/2020 13:52	25.6	27	2.3	45.1	75	76	-2	-2.7
SIMW0045	1/22/2020 11:36	58.8	40.3	0.5	0.4	82	82	-41.2	-41.7
SIMW0045	2/7/2020 13:14	58.9	40.7	0.2	0.2	75	75	-39.5	-39.3
SIMW0045	3/30/2020 7:26	57.5	42.1	0.3	0.1	106	106	-7.2	-10.5
SIMW0045	4/3/2020 8:43	57.9	42	0	0.1	105	106	-16	-20.6
SIMW0045	5/29/2020 15:01	58.2	41.6	0.2	0	109.7	109.8	-20.54	-28.48
SIMW0045	6/3/2020 11:19	59	40.8	0	0.2	107	108	-34.2	-34.2
SIMW0047	1/22/2020 11:39	45.5	33.1	3.7	17.7	107	107	-29.8	-29.8
SIMW0047	2/7/2020 14:42	49.2	35.1	2.8	12.9	108	108	-13.3	-13.3
SIMW0047	3/30/2020 7:30	44.9	34.4	3.1	17.6	107	108	-29	-29.5
SIMW0047	4/15/2020 7:30	48.1	35.5	3.3	13.1	109	109	-25.8	-25.8
SIMW0047	5/14/2020 12:39	49.4	36.7	0.9	13	112	112	-28.9	-28.9
SIMW0047	6/15/2020 12:45	43.6	34.7	1.4	20.3	110	110	-28.6	-28.6
SIMW0048	1/21/2020 14:40	57.3	39.9	1.1	1.7	108.4	108.6	-34.98	-36.07
SIMW0048	2/8/2020 10:19	57.2	40.1	0.6	2.1	117	118	-34.9	-37
SIMW0048	3/6/2020 8:40	57.3	42.3	0.3	0.1	115	116	-32.4	-29.3

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SIMW0813	1/21/2020 14:39	37.6	32.3	0	30.1	113	113	-26.1	-26.1
SIMW0813	2/7/2020 15:21	38.2	32.2	0	29.6	112	112	-23.9	-23.7
SIMW0813	3/30/2020 8:19	38.9	34.2	0.1	26.8	111	111	-22.2	-17.6
SIMW0813	4/8/2020 12:29	47.5	36.5	0	16	110	111	-12.3	-14.7
SIMW0813	5/20/2020 11:11	49.8	39.1	0	11.1	112	112	-14.2	-15.2
SIMW0813	6/3/2020 16:05	47.7	36.7	0	15.6	111	111	-16.1	-15.7
SIMW0814	1/21/2020 14:43	53.8	39	0	7.2	111	111	-46.6	-45.6
SIMW0814	2/7/2020 15:28	54.4	38.5	0	7.1	109	109	-40.3	-41.2
SIMW0814	3/27/2020 8:43	53.9	37.3	0	8.8	109	109	-39	-40.1
SIMW0814	4/8/2020 12:36	55.3	39.5	0	5.2	110	110	-38	-37.8
SIMW0814	5/20/2020 11:04	53.4	40.6	0	6	110	110	-39.2	-39.2
SIMW0814	6/3/2020 15:59	52.5	38.9	0	8.6	109	109	-39.7	-39.7
SIMW0815	1/22/2020 9:03	54.1	36.2	3.8	5.9	61	59	-42.2	-42.9
SIMW0815	2/7/2020 17:36	49.9	33.7	2.9	13.5	80	80	-37.2	-37.2
SIMW0815	3/12/2020 8:25	55.3	44.3	0.2	0.2	62	85	-11.4	-11.2
SIMW0815	3/12/2020 19:04								
SIMW0816	1/21/2020 14:55	46.7	36.6	0	16.7	116	113	-23.4	-23.3
SIMW0816	2/7/2020 16:38	47	37.2	0.1	15.7	115	115	-20.7	-21
SIMW0816	3/27/2020 8:49	45.4	34.5	0.1	20	115	115	-20.9	-20.9
SIMW0816	4/14/2020 11:36	45.4	36.1	0.4	18.1	115	116	-21.2	-20.9
SIMW0816	5/20/2020 10:37	44.7	38.1	0.1	17.1	116	116	-23.1	-22.4
SIMW0816	6/3/2020 15:54	45.3	36.2	0	18.5	114	114	-23.6	-23.3
SIMW0817	1/21/2020 15:00	50.1	34.5	0.1	15.3	125	125	-23	-23.6
SIMW0817	2/7/2020 16:51	47.7	37.6	0	14.7	123	123	-20.8	-20.7
SIMW0817	3/27/2020 8:52	45.1	34.7	0	20.2	124	124	-19.9	-19.8
SIMW0817	4/8/2020 15:15	47.1	35.6	0	17.3	126	126	-18.9	-19
SIMW0817	5/20/2020 10:31	46.6	38.6	0.1	14.7	124	125	-18.3	-15.9
SIMW0817	6/3/2020 16:11	47.1	37.2	0	15.7	122	122	-13.7	-13.7
SIMW0818	1/21/2020 15:04	53.4	39	0	7.6	120	120	-22.3	-23.2
SIMW0818	2/7/2020 16:56	52.9	39.4	0	7.7	118	118	-20.2	-20.4
SIMW0818	3/27/2020 8:56	53.4	37.6	0.1	8.9	118	118	-20.9	-19.1
SIMW0818	4/8/2020 15:23	56.8	37.9	0	5.3	120	120	-17.7	-17.7
SIMW0818	5/20/2020 10:24	54.9	42.1	0.1	2.9	118	119	-17.2	-18
SIMW0818	6/3/2020 16:17	53.6	40	0	6.4	116	116	-20.9	-21.7
SIMW0819	1/21/2020 15:08	49	38.4	0	12.6	121	121	-7.9	-8.1
SIMW0819	2/7/2020 17:01	46.2	37.5	1.1	15.2	118	118	-6.6	-6.7
SIMW0819	3/27/2020 9:00	51.2	40.6	1.1	7.1	118	118	-6.5	-6.4
SIMW0819	4/8/2020 15:32	55.2	44.7	0	0.1	120	121	-6.1	-7.1
SIMW0819	5/20/2020 10:18	55.5	44.2	0.1	0.2	119	120	-6.8	-8.1
SIMW0819	6/3/2020 16:25	55	43.6	0	1.4	102	102	-10.3	-10.5
SIMW0820	1/21/2020 15:14	54.7	41.5	0	3.8	115	115	-8	-8.2
SIMW0820	2/7/2020 17:06	56.3	41.5	0	2.2	113	113	-5.7	-5.9
SIMW0820	3/27/2020 9:03	57.8	40.7	0.1	1.4	112	113	-5.5	-5.9
SIMW0820	4/8/2020 15:39	56.6	43.3	0	0.1	114	114	-4.8	-5.2
SIMW0820	5/20/2020 10:11	55.4	44.3	0.1	0.2	113	113	-5.3	-5.5
SIMW0820	6/3/2020 16:31	55.3	43.5	0	1.2	111	111	-7.1	-7.4
SIMW0821	1/22/2020 9:32	57.2	42.7	0	0.1	81	83	-1.1	-7.7
SIMW0821	2/7/2020 12:29	57.5	42.4	0	0.1	106	107	-4.4	-4.9
SIMW0821	2/7/2020 12:34	51.9	37.4	1.5	9.2	104	105	-26.7	-27.1
SIMW0821	3/17/2020 14:11	56.5	43.4	0	0.1	94	94	1.3	-1.2

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SIMW1013	3/17/2020 11:38	48.6	41.5	0.2	9.7	106	107	-33.7	-33.1
SIMW1013	4/13/2020 13:19	47.2	38.9	0.3	13.6	108	109	-32.2	-32.9
SIMW1013	5/29/2020 13:10	47.9	41.4	0.2	10.5	114.4	114.4	-30.16	-30.24
SIMW1013	6/4/2020 16:37	41.2	37.4	0.6	20.8	111	112	-34.5	-34.8
SIMW1014	1/21/2020 14:23	44.7	34.4	0	20.9	108	109	-43.3	-43.7
SIMW1014	2/7/2020 15:08	43	35.3	0	21.7	108	108	-38.5	-39.1
SIMW1014	3/17/2020 13:39	45.8	37.7	0	16.5	107	107	-34.7	-34.7
SIMW1014	4/8/2020 12:12	44.6	36	0	19.4	107	107	-36.2	-36.5
SIMW1014	5/22/2020 9:32	45.1	37.2	0	17.7	107	108	-39.2	-39.1
SIMW1014	6/3/2020 13:49	44.7	36	0	19.3	110	111	-37.7	-37.8
SIMW1015	1/23/2020 12:00	43.9	34.7	0	21.4	108	108	-2.7	-2.7
SIMW1015	2/19/2020 9:54	42.8	34.9	0.3	22	103	104	-2.7	-2.7
SIMW1015	3/19/2020 10:40	50.8	37.9	0.1	11.2	102	105	-3.9	-5.1
SIMW1015	4/7/2020 9:24	33.7	31.7	0.1	34.5	107	107	-8.2	-7.9
SIMW1015	5/22/2020 14:53	31.8	30.8	0	37.4	108	108	-6.5	-6.4
SIMW1015	6/15/2020 17:23	33.3	29.6	0	37.1	108	108	-5.9	-5.9
SIMW103S	1/22/2020 8:20	51.5	41.9	0.2	6.4	81	81	-46.2	-46.4
SIMW103S	2/28/2020 15:18	37.5	30.3	3.6	28.6	77	80	-0.8	-0.3
SIMW1101	1/22/2020 9:36	57.9	41.8	0.1	0.2	110	111	-2.7	-2.6
SIMW1101	2/7/2020 12:31	58.2	41.6	0	0.2	110	111	-4.4	-2.1
SIMW1101	3/17/2020 14:15	57.5	42.4	0	0.1	109	110	-0.8	-1.4
SIMW1101	4/8/2020 12:39	55.2	37.1	0	7.7	121	119	-37.3	-37
SIMW1101	4/14/2020 11:50	57.9	42	0	0.1	113	114	-1.5	-3
SIMW1101	5/27/2020 13:10	56.4	42.5	0.2	0.9	116.1	116.2	-9.09	-10.75
SIMW1101	6/5/2020 8:12	57.4	42.3	0.3	0	112.4	115.3	0.03	-2.9
SIMW1102	1/22/2020 9:25	53	40.6	1.1	5.3	124	124	-40	-39.4
SIMW1102	2/7/2020 17:13	57.1	42.7	0	0.2	121	122	-34.2	-34
SIMW1102	3/17/2020 11:16	56.3	43.1	0.5	0.1	118	118	-27.7	-28.3
SIMW1102	4/14/2020 11:22	55.9	41.6	0.5	2	121	119	-24.5	-24.7
SIMW1102	5/29/2020 13:46	55.5	41.7	0.2	2.6	122.4	123.6	-22.27	-22.3
SIMW1102	6/4/2020 16:08	48.9	39.8	0.4	10.9	120	121	-28.1	-28.3
SIMW1104	1/20/2020 15:26	54	46	0	0	112.2	112.1	-38.29	-38.27
SIMW1104	2/6/2020 13:25	51.2	40.3	1.6	6.9	89	91	-36.4	-36.5
SIMW1104	3/5/2020 13:22	56.5	43.4	0	0.1	86	87	-31.9	-30.4
SIMW1104	4/10/2020 12:28	54.7	45.2	0	0.1	81	80	-34.2	-34.4
SIMW1104	5/21/2020 14:55	55.8	44.2	0.1	-0.1	88.7	90.1	-35.21	-35.22
SIMW1104	6/5/2020 13:45	55.3	44.5	0	0.2	107	106	-32.4	-32.6
SIMW1105	1/20/2020 8:41	56.1	41.3	1	1.6	109.7	109.9	-41.6	-42.07
SIMW1105	2/5/2020 14:37	55.2	41.2	0.8	2.8	111	112	-41.8	-41.7
SIMW1105	3/2/2020 14:24	56.5	43.4	0	0.1	107	108	-31.5	-31.9
SIMW1105	4/8/2020 8:24	55.2	44.6	0	0.2	109	109	-35.8	-35.9
SIMW1105	5/13/2020 9:22	53.7	41.2	1	4.1	107	107	-34.8	-34.8
SIMW1105	6/5/2020 13:59	55.8	42.2	0.2	1.8	108.4	108.8	-34.46	-33.86
SIMW1106	1/16/2020 9:12	56.1	43.8	0	0.1	68	68	-45.7	-45.6
SIMW1106	2/5/2020 13:00	50.7	38.9	2	8.4	77	77	-46.1	-46.3
SIMW1106	2/18/2020 14:49	57.5	42.3	0	0.2	80	80	0	0
SIMW1107	1/22/2020 10:05	42.8	35.7	1.1	20.4	131	132	-30.2	-30.9
SIMW1107	1/30/2020 8:51	46.1	38	0	15.9	131	132	-30	-30.5
SIMW1107	1/30/2020 14:57								
SIMW1107	2/7/2020 17:47	46.3	37	0	16.7	129	130	-28.8	-28.4

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SIMW1227	3/17/2020 11:55	55.9	44	0	0.1	131	131	-36.6	-35.7
SIMW1227	4/13/2020 13:31	56.3	41.1	0	2.6	132	132	-35.4	-35.8
SIMW1227	5/29/2020 12:32	54.3	42.5	0.1	3.1	133.9	134.1	-32.15	-31.92
SIMW1227	6/4/2020 16:52	52.2	40.1	0.4	7.3	130	130	-38.8	-38.2
SIMW1228	1/22/2020 14:22	42.2	37.3	0	20.5	135	135	-34.4	-31.4
SIMW1228	2/7/2020 18:17	44.2	36.5	0	19.3	133	134	-26.2	-26.5
SIMW1228	3/17/2020 13:19	43	39.4	0	17.6	132	133	-25.5	-23.1
SIMW1228	4/15/2020 11:43	45.4	37.6	0	17	134	134	-19	-19.2
SIMW1228	5/22/2020 8:47	42.2	39.1	0	18.7	134	134	-22.5	-22.2
SIMW1228	6/3/2020 17:09	43	36.9	0	20.1	131	131	-20.3	-19
SIMW1229	1/16/2020 8:49	49.4	46.1	0.7	3.8	135	135	-44.5	-44.3
SIMW1229	2/5/2020 12:35	48.7	43.5	0.8	7	133	134	-44.9	-44.7
SIMW1229	3/2/2020 13:41	50.2	45.6	0.4	3.8	129	129	-33.4	-33.7
SIMW1229	4/8/2020 12:34	48.9	45.6	0.7	4.8	127	127	-37.7	-37.3
SIMW1229	5/18/2020 14:06	50.5	45.5	0.5	3.5	133.6	134.4	-39.6	-39.68
SIMW1229	6/5/2020 13:27	46.1	42.5	2.1	9.3	132.9	133.2	-36.72	-36.74
SIMW1230	1/14/2020 14:17	11.1	9.1	14.4	65.4	90	76	-38.2	-3.4
SIMW1230	1/24/2020 15:02	7	6.7	14.8	71.5	83	80	-1.1	-3.8
SIMW1230	2/5/2020 11:57	0.1	0.8	19.2	79.9	72	71	0	0
SIMW1231	1/22/2020 14:17	42.8	36.6	1	19.6	134	134	-43.9	-43.8
SIMW1231	2/7/2020 18:22	41	34.5	1.6	22.9	131	132	-37.8	-38.2
SIMW1231	3/17/2020 13:12	46.5	41	0	12.5	133	133	-34.3	-33.9
SIMW1231	4/13/2020 12:46	43.6	38.3	0	18.1	134	135	-36	-35.4
SIMW1231	5/22/2020 8:30	42.3	39.1	0	18.6	134	134	-39.9	-40.5
SIMW1231	6/4/2020 11:21	42.4	38.1	0	19.5	133	134	-38.2	-37.8
SIMW1232	1/22/2020 14:11	49.5	41.5	0	9	144	145	-41.3	-41.4
SIMW1232	1/30/2020 11:30	49.8	42.9	0	7.3	145	146	-38.3	-38.3
SIMW1232	1/30/2020 14:58								
SIMW1232	2/7/2020 18:28	49.8	42.5	0	7.7	142	143	-35.8	-35.8
SIMW1232	2/19/2020 8:42	49.2	44	0.2	6.6	146	147	-32	-32
SIMW1232	3/4/2020 9:49	50.1	42.5	0.2	7.2	141	141	-31.1	-30.9
SIMW1232	3/17/2020 13:01	52.6	45.1	0	2.3	140	141	-31.9	-32
SIMW1232	4/13/2020 12:40	51	43.5	0	5.5	142	143	-32.6	-32.7
SIMW1232	5/22/2020 7:35	49.7	45.2	0	5.1	143	143	-35.2	-35.1
SIMW1232	6/4/2020 11:43	48.8	43.6	0	7.6	141	142	-33.3	-33.3
SIMW1233	1/22/2020 14:07	45.4	39.6	0.1	14.9	140	141	-41.4	-41.6
SIMW1233	1/30/2020 11:49	44.9	40.4	0	14.7	141	142	-38.6	-38.5
SIMW1233	1/30/2020 14:58								
SIMW1233	2/7/2020 18:32	45.1	39.8	0	15.1	139	139	-35.9	-35.8
SIMW1233	2/19/2020 8:23	42.9	39.7	0.9	16.5	142	143	-32.4	-31.8
SIMW1233	3/4/2020 9:52	42.9	38.7	0.7	17.7	138	139	-33	-30.1
SIMW1233	4/13/2020 12:36	49.7	42.3	0	8	141	141	-31	-32.4
SIMW1233	4/21/2020 8:52	50.3	42.3	0.1	7.3	142	142	-33.2	-33.4
SIMW1233	4/21/2020 17:49								
SIMW1233	5/22/2020 7:23	46.3	43.2	0	10.5	141	141	-36.2	-35.5
SIMW1233	6/4/2020 11:50	45.1	41	0	13.9	139	140	-33.3	-33
SIMW1233	6/23/2020 15:39								
SIMW1233	6/23/2020 17:18	45.1	41.3	0.1	13.5	139	140	-28.8	-25.3
SIMW1234	1/9/2020 14:19	48.1	37.1	1.7	13.1	117	118	-44.1	-42.9
SIMW1234	2/4/2020 10:08	46.8	37.5	1.6	14.1	117	117.2	-41.28	-41.36

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SIMW1565	3/17/2020 12:24	44.5	35.3	1.9	18.3	129	129	-9.1	-8.8
SIMW1565	4/10/2020 14:22	42.6	36.9	1.5	19	130	131	-9.3	-9.1
SIMW1565	4/21/2020 8:27	43.2	36.6	1.9	18.3	132	132	-9	-8.1
SIMW1565	4/21/2020 17:50								
SIMW1565	5/21/2020 7:53	46.8	39.6	1.5	12.1	131	131	-7	-6.4
SIMW1565	6/4/2020 12:50	47.5	38.6	1.2	12.7	129	130	-5.4	-5.3
SIMW1569	1/14/2020 8:47	36.4	34.9	2	26.7	130	130	-24.3	-23.8
SIMW1569	2/5/2020 11:12	41.1	35	1.9	22	130	130	-22.9	-20.5
SIMW1569	3/26/2020 11:04	33.1	28.4	4.3	34.2	126	126	-17.3	-17.3
SIMW1569	4/14/2020 12:48	43.3	38.3	0.3	18.1	130	131	-16.2	-16.3
SIMW1569	4/21/2020 13:16	43.5	38.1	0.2	18.2	130	131	-18.2	-18
SIMW1569	4/22/2020 9:31	43.8	38.5	0	17.7	130	129	-17.1	-16.8
SIMW1569	5/13/2020 10:26	48.4	40	0.6	11	131	131	-16.2	-16.1
SIMW1569	5/27/2020 10:05	44.9	40.1	0.2	14.8	132.3	132.9	-16.64	-16.63
SIMW1569	5/27/2020 18:00								
SIMW1569	6/4/2020 12:31	45.9	39.7	0.1	14.3	133	133.2	-14.89	-14.96
SIMW1569	6/24/2020 11:30	49.6	41.9	0	8.5	130	131	-14.2	-15.7
SIMW1569	6/24/2020 12:34	54.7	45.2	0	0.1	132	133	-30.7	-30.7
SIMW1569	6/24/2020 15:40								
SIMW1571	1/15/2020 11:34	46.9	38.7	1.8	12.6	133	134	-21.8	-21.9
SIMW1571	2/5/2020 12:01	52.7	41.7	0	5.6	131	132	-22.6	-23.1
SIMW1571	3/2/2020 12:25	51.7	42.4	0.1	5.8	131	132	-18.3	-19.9
SIMW1571	4/8/2020 12:01	49.7	42.2	0.1	8	132	132	-23.8	-24.7
SIMW1571	5/15/2020 12:19	52.9	41	0	6.1	132	132	-26.6	-26.9
SIMW1571	6/4/2020 13:39	47.5	41.1	0	11.4	133.4	133.5	-25.94	-26.07
SIMW1776	1/21/2020 9:15	54.7	40.9	0.9	3.5	118.7	119.4	-23.1	-24.55
SIMW1776	2/7/2020 12:19	54.8	39.3	1	4.9	118	120	-29	-28.8
SIMW1776	3/17/2020 10:52	52.8	40	0.9	6.3	116	117	-23.7	-23.6
SIMW1776	4/13/2020 9:42	54	39.5	1.3	5.2	119	119	-22.7	-22.8
SIMW1776	5/22/2020 11:26	48.4	37.4	1.4	12.8	121	121.4	-20.95	-21.36
SIMW1776	6/4/2020 13:59	54.5	41.2	0	4.3	121	121	-23.7	-23.7
SIMW1779	1/20/2020 14:18	48.8	42.5	0.5	8.2	135.8	136	-30.02	-30.24
SIMW1779	2/6/2020 9:09	48.5	41	0.7	9.8	136	137	-30.5	-27.8
SIMW1779	3/5/2020 14:21	52.1	41.7	0.3	5.9	133	133	-23.6	-23.3
SIMW1779	4/10/2020 11:20	52.8	44.5	0.1	2.6	135	136	-28.8	-27.4
SIMW1779	5/22/2020 9:58	54.5	45	0	0.5	138.6	138.7	-28.26	-28.31
SIMW1779	6/5/2020 17:43	53.2	44.6	0.4	1.8	136	136	-24.5	-25
SIMW1781	1/20/2020 13:22	49.9	32.5	2.2	15.4	85.3	85.3	-39.31	-39.83
SIMW1781	2/6/2020 12:31	57.9	38.3	0.8	3	83	83	-39.1	-39.2
SIMW1781	3/5/2020 10:09	51.4	35.8	1.7	11.1	81	81	-31.8	-31.9
SIMW1781	4/8/2020 12:52	8.1	6.3	17.3	68.3	72	73	-34.1	-34.4
SIMW1781	4/20/2020 13:26	35.2	23.3	5.6	35.9	72	71	-30.3	-28.8
SIMW1781	5/21/2020 8:14	57.3	42.7	0	0	78.5	79.2	0.05	-34.25
SIMW1781	5/27/2020 9:27	36.3	27.9	4.4	31.4	86.5	87.6	-30.91	-31.97
SIMW1781	6/9/2020 13:42	51	37.7	1	10.3	95.1	94.8	-26.8	-26.61
SIMW1784	1/20/2020 13:54	46.4	39.8	1	12.8	132.4	133.4	-12.24	-12.4
SIMW1784	2/6/2020 13:01	46.7	39.1	0.1	14.1	125	128	-10.9	-11
SIMW1784	3/5/2020 14:43	53.9	41.9	0.5	3.7	112	123	-3.6	-5.5
SIMW1784	4/10/2020 10:58	53.3	46.6	0	0.1	111	114	-5.4	-6
SIMW1784	5/21/2020 8:34	54	45.9	0.1	0	119.1	123.8	-5.14	-6.39

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SIMW1796	3/5/2020 8:56	56.3	43.6	0	0.1	124	124	-28.6	-28.6
SIMW1796	4/13/2020 10:26	56.5	43.3	0	0.2	124	125	-29.5	-28.8
SIMW1796	5/22/2020 12:05	55.3	44.1	0	0.6	126.6	126.7	-30.77	-30.83
SIMW1796	6/5/2020 10:56	55.9	44	0	0.1	126.8	127	-28.31	-29
SIMW1797	2/28/2020 15:24	55.4	44.3	0.1	0.2	103	87	-12.9	-13.8
SIMW1797	3/5/2020 9:01	57.5	42.2	0.2	0.1	119	119	-25.2	-25.1
SIMW1797	6/5/2020 10:42	54.8	45.1	0.1	0	108.8	125.4	28.05	-22.62
SIMW1798	1/21/2020 14:25	49.7	38.2	2.3	9.8	121	121.1	-39.92	-39.86
SIMW1798	2/5/2020 12:48	49	38.1	2	10.9	120	121	-38	-38.2
SIMW1798	3/5/2020 8:48	55.2	43.2	0	1.6	123	123	-32.2	-31.2
SIMW1798	4/13/2020 10:18	45.2	37.1	0	17.7	122	122	-35.2	-32.8
SIMW1798	5/29/2020 14:40	46.4	38.2	0.5	14.9	124.4	125.1	-30.57	-30.16
SIMW1798	6/5/2020 12:46	46.7	39.1	0.2	14	124.9	124.9	-35.9	-36.04
SIMW1801	1/21/2020 14:05	53.8	39.1	1.6	5.5	117.3	117.9	-27.99	-37.57
SIMW1801	2/5/2020 14:18	48.4	35.3	3	13.3	118	118	-36.6	-32.8
SIMW1801	3/5/2020 9:45	57.3	40.5	0.8	1.4	121	120	-26.3	-19.4
SIMW1801	4/8/2020 7:39	56.1	43.4	0.4	0.1	122	123	-22.9	-29.2
SIMW1801	5/27/2020 10:13	57.3	42.4	0.2	0.1	124	125.1	-29.09	-29.12
SIMW1801	6/5/2020 14:15	55.7	44.2	0.1	0	124.6	124.9	-23.71	-25.18
SIMW1802	1/20/2020 15:08	48.1	39.7	0	12.2	129.8	130	-26.41	-26.42
SIMW1802	2/6/2020 9:34	47.7	39.3	0	13	130	130	-28.5	-28.4
SIMW1802	3/5/2020 13:41	42.4	36.4	0.1	21.1	125	126	-22.6	-22.6
SIMW1802	4/10/2020 11:55	44.4	38.6	0	17	125	126	-26.9	-27
SIMW1802	5/22/2020 8:24	41	37.7	0	21.3	130.3	130.3	-27.69	-26.83
SIMW1802	6/4/2020 10:39	41.6	37.4	0	21	130.5	130.6	-23.59	-22.61
SIMW1802	6/5/2020 16:36	42.4	36.6	0	21	128	128	-21	-20.8
SIMW1803	1/13/2020 10:27	54.3	38.9	0.7	6.1	116	117	-38.4	-38
SIMW1803	2/6/2020 13:49	55.5	41.5	0.6	2.4	117	119	-31.9	-31.9
SIMW1803	3/6/2020 8:18	56.8	43.1	0	0.1	117	119	-24.7	-24.5
SIMW1803	4/14/2020 12:18	58.1	41.3	0.4	0.2	85	85	-20.5	-20.7
SIMW1803	5/29/2020 14:08	57.4	42.3	0.2	0.1	104.6	105.4	-18.14	-20.47
SIMW1803	6/15/2020 13:08	58.1	41.8	0	0.1	110	111	-21.9	-22.1
SIMW1804	1/20/2020 15:36	56.4	43.3	0.3	0	122.4	122.4	-30.34	-30.42
SIMW1804	2/6/2020 13:17	52.6	39	1.6	6.8	122	122	-28.5	-28.4
SIMW1804	3/5/2020 13:16	53.6	39	1.4	6	120	120	-25.6	-24.1
SIMW1804	4/10/2020 12:33	54.6	40.7	1.4	3.3	120	121	-27.8	-27.7
SIMW1804	5/22/2020 10:15	54.7	41.4	0.8	3.1	123.2	123.2	-28.63	-28.64
SIMW1804	6/5/2020 13:55	54.5	41.2	0.9	3.4	121	121	-25.1	-25.2
SIMW1806	1/22/2020 10:11	37.8	35.3	0.4	26.5	126	128	-9.6	-6.4
SIMW1806	2/7/2020 17:55	40.2	35.7	0.4	23.7	127	127	-4.4	-4.4
SIMW1806	3/17/2020 13:43	47.1	39.8	0	13.1	127	127	-4.6	-5.1
SIMW1806	4/13/2020 13:07	42.3	36.7	0	21	129	129	-6.9	-6.9
SIMW1806	5/22/2020 9:48	41.6	37.8	0	20.6	129	130	-7	-6.8
SIMW1806	6/3/2020 16:54	42	35.5	0	22.5	106	106	-5.7	-5.6
SIMW1807	1/20/2020 13:15	57.5	42.3	0.2	0	121	121.1	-31.58	-31.59
SIMW1807	2/5/2020 14:47	56.1	43.8	0	0.1	118	118	-27.2	-26.9
SIMW1807	3/5/2020 10:03	57	42.8	0	0.2	119	118	-20.5	-20.5
SIMW1807	5/21/2020 8:05	56	43.9	0.1	0	121.1	120.9	-29.31	-30.52
SIMW1807	6/9/2020 12:12	57	42.5	0.2	0.3	118.1	117.5	-20.18	-19.59
SIMW1808	1/23/2020 13:30	35.4	30.9	0.1	33.6	96	100	-0.9	-0.7

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SIMW1815	3/4/2020 10:23	54.3	43.8	0	1.9	113	115	-23.9	-25
SIMW1815	4/23/2020 14:37	55.9	43.8	0.2	0.1	119	119	-20.4	-20.5
SIMW1815	5/14/2020 13:57	55.6	43.5	0	0.9	116	116	-28.3	-28.3
SIMW1815	6/5/2020 8:33	56.1	43.9	0	0	117.1	117.1	-25.42	-25.43
SIMW1816	2/21/2020 12:17	55.4	43.8	0	0.8	125	125	-10.3	-10.2
SIMW1816	3/4/2020 10:20	56.2	42.8	0	1	127	128	-10.7	-13.2
SIMW1816	4/23/2020 14:49	57.1	41.8	0.2	0.9	123	124	-14.5	-13.5
SIMW1816	5/14/2020 12:54	53.6	42.1	0.4	3.9	130	130	-22.9	-23.2
SIMW1816	5/14/2020 14:02	56	43.7	0	0.3	120	120	-33.2	-33.1
SIMW1816	6/5/2020 8:27	53.3	43	0.1	3.6	131.3	131.3	-19.65	-19.63
SIMW1816	6/12/2020 16:09	58.2	41.3	0.3	0.2	129	129	-12.9	-18.2
SIMW1816	6/15/2020 16:11	51.7	40.6	0.2	7.5	129	129	-19	-19
SIMW1817	1/22/2020 13:34	49	40.7	0.2	10.1	125	126	-16.2	-17
SIMW1817	2/7/2020 15:28	52.2	42.2	0	5.6	124	127	-17.1	-18.1
SIMW1817	3/4/2020 11:06	36	34.6	0	29.4	124	124	-20.7	-16.2
SIMW1817	4/13/2020 9:14	49	40.9	0	10.1	125	126	-16.3	-17
SIMW1817	5/14/2020 13:54	36.6	36.6	0	26.8	126	126	-17.4	-16
SIMW1817	6/5/2020 9:32	37.7	36.3	0	26	128	128	-12.17	-11.33
SIMW1818	1/29/2020 13:11	55.1	44.8	0	0.1	97	97	-17.1	-17.1
SIMW1818	2/7/2020 14:53	54.4	45.5	0	0.1	115	116	-23.9	-26.7
SIMW1818	3/4/2020 10:30	53.3	44.4	0	2.3	114	114	-22.6	-27
SIMW1818	4/13/2020 8:39	55.9	42.1	0.8	1.2	79	70	-35.3	-35.2
SIMW1818	5/14/2020 14:10	55.4	43.6	0	1	99	100	-33.1	-33.2
SIMW1818	6/9/2020 12:33	54.9	45.1	0.1	-0.1	120.9	121.2	-20.52	-21.69
SIMW1818	6/12/2020 13:24	55.9	43.9	0.1	0.1	119	119	-25.2	-25.1
SIMW1819	1/29/2020 13:30	55	44.9	0	0.1	103	103	-12.8	-13.5
SIMW1819	2/7/2020 14:59	55.2	44.7	0	0.1	108	108	-18.4	-20.5
SIMW1819	3/4/2020 10:35	54.5	43.2	0	2.3	116	116	-19.4	-21.2
SIMW1819	4/13/2020 8:44	56	43.8	0.1	0.1	117	117	-25.5	-26.6
SIMW1819	5/14/2020 14:13	55.3	43.5	0	1.2	119	119	-25.2	-25
SIMW1819	6/5/2020 9:09	54.9	45	0.1	0	83.2	85.2	-2.09	-7.96
SIMW1819	6/12/2020 13:15	54.2	42.1	0.5	3.2	114	114	-11.5	-16.9
SIMW1820	1/21/2020 15:25	48.4	41.2	0.2	10.2	98.1	98.2	-16.8	-17.28
SIMW1820	2/7/2020 15:01	44.7	39.6	0	15.7	103	103	-16.1	-16.1
SIMW1820	3/4/2020 10:45	33.6	30.9	1.9	33.6	115	116	-21.6	-17.4
SIMW1820	4/13/2020 8:54	44.9	38.6	0	16.5	112	112	-17.9	-19
SIMW1820	5/14/2020 14:19	44.1	38.4	0.1	17.4	120	121	-17.2	-17.2
SIMW1820	6/5/2020 9:16	45.7	39.6	0.2	14.5	104.2	104.3	-14.8	-14.95
SIMW1821	1/21/2020 15:29	51.5	39.5	1.3	7.7	107.2	107.3	-35.87	-35.74
SIMW1821	2/7/2020 15:04	50.2	39.3	1.2	9.3	110	110	-32.3	-32.1
SIMW1821	3/20/2020 9:21	46.4	36.7	1.4	15.5	105	105	-33.5	-33.6
SIMW1821	4/13/2020 8:56	49.2	38.5	0.5	11.8	109	110	-32.5	-33.1
SIMW1821	5/14/2020 14:22	52.4	38.2	1.2	8.2	118	118	-33.5	-33.4
SIMW1821	6/5/2020 9:20	56.4	43.2	0.4	0	87.7	87.8	-31.26	-31.29
SIMW2041	2/21/2020 13:36	58.2	41.7	0	0.1	102	119	2.1	-0.1
SIMW2041	3/17/2020 13:15	56.1	43.7	0	0.2	127	128	-5.3	-6.2
SIMW2041	4/13/2020 12:50	50.2	40.9	0	8.9	131	132	-13.6	-14.2
SIMW2041	4/21/2020 12:06	50.4	39	0.3	10.3	133	133	-16.6	-17
SIMW2041	4/21/2020 17:52								
SIMW2041	5/22/2020 8:40	47	40.3	0	12.7	133	133	-18.4	-18.3

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SIMW2057	6/4/2020 10:48	57.4	41.4	0.2	1	124.3	124.4	-14.98	-17.29
SIMW2058	2/25/2020 13:57	0.1	0.4	20.1	79.4	81	81	-2.1	-2.5
SIMW2058	2/25/2020 13:59	44.9	32.8	4.4	17.9	88	88	-3.2	-3.2
SIMW2058	2/26/2020 10:03	57.4	42.3	0.2	0.1	108	109	-4.6	-5.5
SIMW2058	3/6/2020 8:38	57.2	42.7	0	0.1	116	116	-5.9	-6.6
SIMW2058	4/13/2020 9:33	57.3	42.5	0	0.2	120	121	-8.8	-10.3
SIMW2058	5/21/2020 13:12	51.8	41	0	7.2	123.2	123.3	-16.15	-16.1
SIMW2058	6/4/2020 10:44	49.6	38.9	0	11.5	116.2	118.8	-4.95	-7.89
SIMW2059	3/10/2020 7:45	55.4	44.5	0	0.1	104	94	2.3	-1.1
SIMW2059	3/17/2020 14:03	55.8	44.1	0	0.1	113	114	-10.3	-12.7
SIMW2059	4/8/2020 15:53	59.1	40.8	0	0.1	117	118	-15.2	-16
SIMW2059	5/29/2020 13:52	57.1	42.6	0.2	0.1	117.1	118.9	-10.12	-20.28
SIMW2059	6/3/2020 16:37	55.4	41.9	0	2.7	101	101	-26.7	-27.1
SIMW2060	3/17/2020 14:11	56.5	43.4	0	0.1	94	94	1.3	-1.2
SIMW2060	4/14/2020 11:46	57.4	42.4	0	0.2	102	102	-2.5	-8.8
SIMW2060	5/27/2020 13:14	57.9	42	0.1	0	106.7	107	-16.13	-19.06
SIMW2060	6/5/2020 8:18	57.4	42.5	0	0.1	104.5	104.5	-22.04	-23.7
SIMW2060	6/15/2020 16:08	56	42.4	0.1	1.5	129	129	-22.5	-24
SIMW2062	2/28/2020 15:29	55.9	43.9	0.1	0.1	102	109	0.4	-1.1
SIMW2062	3/4/2020 10:17	56.8	42.8	0.2	0.2	127	127	-6.7	-7.8
SIMW2062	4/23/2020 14:43	56.8	42.4	0.4	0.4	127	127	-16.2	-16.1
SIMW2062	5/27/2020 13:01	56	41.3	0.6	2.1	130.8	130.9	-23.58	-23.57
SIMW2062	6/5/2020 8:23	56.9	43.1	0	0	128.2	130.6	0.86	-5.33
SIMW2063	2/27/2020 13:28	6	4.7	18	71.3	82	88	-0.2	-0.7
SIMW2063	2/27/2020 13:29	57.7	41	0.1	1.2	95	97	-1.1	-1.7
SIMW2063	3/4/2020 8:46	32.3	33.4	0.7	33.6	110	110	-3.6	-3.4
SIMW2063	4/3/2020 8:37	43	35.6	0.1	21.3	113	113	-2.7	-2.9
SIMW2063	5/14/2020 12:14	32.4	30.4	3.2	34	117	117	-2.9	-2.4
SIMW2063	5/14/2020 12:50	53.6	40.6	1	4.8	129	130	-24.2	-24.2
SIMW2063	6/3/2020 11:08	15.2	12.7	12.3	59.8	111	111	-1.1	-1.1
SIMW2063	6/12/2020 16:20	20.9	16.5	10.9	51.7	113	112	-0.8	-0.4
SIMW2063	6/15/2020 12:52	9.3	6.7	15.8	68.2	112	112	-0.3	-0.3
SIMW2063	6/16/2020 17:02	26.2	19.6	9.9	44.3	109	108	-0.1	0
SIMW2063	6/18/2020 16:18	58.6	40.9	0.4	0.1	97	98	-0.1	-0.1
SIMW2065	2/18/2020 15:50	53	45.9	0	1.1	74	112	1.7	-0.6
SIMW2065	3/5/2020 14:31	42.8	37.9	0.2	19.1	132	132	-4.2	-3.8
SIMW2065	3/10/2020 9:17	49.3	42.4	0	8.3	135	136	-3.1	-3.2
SIMW2065	4/10/2020 11:12	42.4	39.5	0.2	17.9	131	131	-3.8	-3.5
SIMW2065	5/21/2020 13:48	35.2	30.6	5.9	28.3	135.5	128.5	-1.25	-0.24
SIMW2065	5/27/2020 9:04	53.3	46.2	0	0.5	88.2	98.6	0.45	-0.17
SIMW2065	6/5/2020 17:58	48.1	44	0.7	7.2	139	140	-0.1	-0.2
SIMW2065	6/12/2020 16:45	47	40.4	1.2	11.4	137	138	-0.4	-0.4
SIMW2065	6/24/2020 13:05	47.2	41.4	1.3	10.1	140	140	-0.2	-0.3
SIMW2065	6/24/2020 15:42								
SIMW2070	2/27/2020 13:36	7	3.9	18.6	70.5	89	99	-0.2	-2.4
SIMW2070	2/27/2020 13:37	55.6	44	0.2	0.2	105	106	-4.6	-7.8
SIMW2070	3/4/2020 9:02	44	38.2	0	17.8	132	132	-6.7	-5.6
SIMW2070	3/10/2020 8:20	53.3	41.3	0.2	5.2	133	133	-4.7	-6.5
SIMW2070	3/10/2020 17:44								
SIMW2070	4/3/2020 8:30	52.2	41.2	0.1	6.5	131	132	-7	-9.3

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SIMW2082	6/10/2020 16:57								
SIMW2082	6/16/2020 17:46								
SIMW2083	3/17/2020 12:53	48.9	40.7	1.8	8.6	78	78	-1.5	-1.5
SIMW2083	4/10/2020 15:14	51.4	42	1.2	5.4	66	67	-0.1	-1.2
SIMW2083	4/13/2020 12:33	55.6	44.2	0.1	0.1	119	120	-2.6	-3.2
SIMW2083	5/21/2020 8:45	54.9	44.9	0	0.2	123	124	-2.3	-2.5
SIMW2083	6/4/2020 11:58	54.9	43	0	2.1	110	113	-1.1	-1.5
SIMW2084	3/6/2020 7:58	54.4	45.4	0	0.2	61	104	0.4	-0.3
SIMW2084	3/17/2020 12:35	54.5	45.4	0	0.1	131	133	-0.5	-0.9
SIMW2084	3/31/2020 6:19	55.7	44	0.2	0.1	133	134	-2	-2.3
SIMW2084	4/10/2020 14:35	54	42.7	0	3.3	134	135	-2.7	-2.8
SIMW2084	4/13/2020 12:28	53.4	42.5	0	4.1	135	136	-3.1	-4.3
SIMW2084	4/13/2020 17:48								
SIMW2084	4/21/2020 8:11	46.3	41.5	0	12.2	136	137	-5.7	-5.9
SIMW2084	5/21/2020 8:03	42.8	39.8	0	17.4	136	135	-6.2	-4.3
SIMW2084	6/4/2020 12:37	50.5	39.7	0	9.8	133	134	-2.2	-2.5
SIMW2084	6/16/2020 17:47								
SIMW2084	6/24/2020 10:53	52	42.2	0.1	5.7	135	136	-2.7	-4.6
SIMW2084	6/24/2020 15:40								
SIMW2086	2/25/2020 12:03	1.1	2.4	18.3	78.2	80	85	-4.9	-7.6
SIMW2086	2/25/2020 12:05	30.4	28.4	2.4	38.8	93	94	-11.5	-11.5
SIMW2086	3/2/2020 8:26	38.1	37	0.4	24.5	93	93	-5.6	-5.5
SIMW2086	4/8/2020 8:40	47.9	44.8	0.2	7.1	81	87	-7.5	-9.2
SIMW2086	5/13/2020 9:41	9.4	7.8	15.8	67	96	95	-6.6	-5.8
SIMW2086	5/26/2020 9:04	47.1	43.3	0.1	9.5	130.1	129.8	-26.32	-22.12
SIMW2086	6/4/2020 8:42	30.1	33.5	0	36.4	127.8	128	-23.56	-21.82
SIMW2087	6/2/2020 17:23	57.3	42.5	0.1	0.1	92	111	15.2	-1.9
SIMW2087	6/9/2020 9:15	56.7	43.2	0.2	-0.1	123.7	124.2	-11.73	-20.95
SIMW2087	6/12/2020 13:58	55.8	44.1	0	0.1	122	122	-24.3	-24.4
SIMW2087	6/18/2020 16:10	54.5	45.4	0	0.1	122	123	-21.2	-21.4
SIMW2088	6/2/2020 17:29	54.4	45.5	0	0.1	93	115	7.9	-0.9
SIMW2088	6/9/2020 8:57	55.9	44.1	0	0	123.6	123.7	-8.21	-8.23
SIMW2088	6/12/2020 13:56	55.7	44.2	0	0.1	121	122	-17.2	-15.8
SIMW2088	6/16/2020 17:50	53.6	46	0.2	0.2	123	123	-20.3	-20.4
SIMW2088	6/18/2020 16:06	54.4	45.5	0	0.1	122	123	-19.6	-19.5
SIMW701D	1/8/2020 11:18	40.2	37.6	1.3	20.9	115	116	-27	-24.4
SIMW701D	2/6/2020 15:18	45.2	38.9	0.8	15.1	109	109	-19.4	-19.5
SIMW701D	3/2/2020 6:59	25.8	26.7	4.6	42.9	93	86	-10	-1.4
SIMW701S	1/8/2020 11:23	51.3	44.8	0.1	3.8	138	138	-40.6	-40.3
SIMW701S	2/6/2020 15:21	47.5	40.6	1.5	10.4	138	138	-39.1	-39.2
SIMW701S	3/2/2020 7:03	52.1	43.9	0.6	3.4	126	107	-31.3	-13.4
SIMW703D	1/8/2020 11:48	53.9	42.2	0	3.9	128	129	-15.4	-17.1
SIMW703D	2/6/2020 15:30	49.2	40.2	0.2	10.4	124	127	-17.9	-22
SIMW703D	3/17/2020 12:44	48.1	39	0.3	12.6	122	122	-17.6	-22.1
SIMW703D	4/10/2020 14:58	45.3	38.3	0.4	16	125	126	-22.6	-26.1
SIMW703D	5/21/2020 8:26	45.5	39.9	0.4	14.2	126	126	-32.2	-31.6
SIMW703D	6/4/2020 12:06	43.4	37.7	0.4	18.5	124	125	-29.9	-29.6
SIMW703S	1/8/2020 11:50	43.9	40.4	0	15.7	139	141	-30.6	-29.9
SIMW703S	2/6/2020 15:32	45	39.7	0	15.3	139	141	-27.8	-27
SIMW703S	3/17/2020 12:47	49.3	41.8	0	8.9	135	136	-22.8	-23.9

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SIMW805S	6/4/2020 11:34	37	34.7	1	27.3	107	107	-10.2	-10.2
SIMW810D	1/21/2020 14:17	43.2	35.4	0	21.4	96	96	-1.5	-1.5
SIMW810D	2/7/2020 14:55	41	34.9	0	24.1	96	96	-1.3	-1.3
SIMW810D	3/27/2020 8:26	39.3	33.2	0	27.5	96	97	-2	-2
SIMW810D	4/8/2020 12:00	39.3	34.1	0	26.6	95	95	-1.8	-1.8
SIMW810D	5/22/2020 9:11	40.3	34.8	0	24.9	99	99	-1.8	-1.8
SIMW810D	6/3/2020 13:28	42.3	33.9	0	23.8	100	100	-1.4	-1.4
SIMW810S	1/21/2020 14:20	33.7	32.1	0	34.2	77	76	-0.3	-0.3
SIMW810S	2/7/2020 14:58	32.2	32.1	0	35.7	83	83	-0.1	-0.1
SIMW810S	3/27/2020 8:29	31.5	30.9	0.1	37.5	81	79	-0.4	-0.4
SIMW810S	4/8/2020 12:04	32.2	29.9	0	37.9	71	71	-0.3	-0.3
SIMW810S	5/22/2020 9:15	34	32.6	0	33.4	87	88	-0.2	-0.4
SIMW810S	6/3/2020 13:32	31.9	30.7	0	37.4	102	102	-0.4	-0.4
SIMW822D	1/20/2020 14:22	44.7	37.2	1.2	16.9	123.6	123.8	-34.44	-34.16
SIMW822D	2/6/2020 9:12	43.8	36.8	1.7	17.7	123	123	-33.4	-34.1
SIMW822D	3/5/2020 14:15	44.6	35.9	1.1	18.4	120	121	-25.8	-26.4
SIMW822D	4/10/2020 11:24	41.4	35.5	2.9	20.2	124	125	-29.3	-30.6
SIMW822D	5/22/2020 10:03	46.7	38.3	1.7	13.3	125.8	126	-31.59	-32.88
SIMW822D	6/5/2020 17:32	50.9	41.6	0	7.5	126	126	-28.3	-28.1
SIMW822S	1/20/2020 14:25	43.7	35.6	0.3	20.4	119.4	119.9	-32.97	-31.22
SIMW822S	2/6/2020 9:14	42.4	37.2	0.2	20.2	119	119	-33.2	-32.9
SIMW822S	3/5/2020 14:18	43.4	35.4	0	21.2	115	115	-25.1	-24.3
SIMW822S	4/10/2020 11:26	43.4	37.2	0.4	19	121	121	-28.1	-28.7
SIMW822S	5/22/2020 10:06	42.2	37	0	20.8	124.6	125.7	-29.4	-29.23
SIMW822S	6/5/2020 17:37	50.6	40.5	0	8.9	121	122	-26.2	-26.6
SIMWO9RS	1/21/2020 14:11	54.9	38.8	0	6.3	116	117	-43.6	-43.5
SIMWO9RS	2/7/2020 14:46	54.8	37.7	0	7.5	115	117	-38.6	-38.9
SIMWO9RS	3/19/2020 11:49	53.6	38.5	0	7.9	113	114	-33.6	-33.6
SIMWO9RS	4/8/2020 11:43	52.1	38.6	0	9.3	115	115	-34.8	-35.2
SIMWO9RS	5/18/2020 14:34	51.2	38.9	0	9.9	114	114	-38	-37.9
SIMWO9RS	6/3/2020 13:05	51.3	37.7	0	11	117	117	-35	-35.6

S-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	% O2	% N2	Static Press	Gas Temp	Comments
0 to 5	SIM1924S	1/13/2020 10:32:16AM	Initial	19.5		-39.80	70.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed;Watered In
0 to 5	SIM1924S	1/13/2020 10:32:16AM	Initial	19.5		0.00	67.0	
0 to 5	SIM1924S	4/10/2020 12:17:13PM	Initial	19.7		-25.00	66.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
0 to 5	SIM1924S	4/10/2020 12:17:13PM	Initial	19.7		0.00	64.0	
0 to 5	SIM1925S	1/20/2020 3:32:16PM	Initial	6.6		-1.93	80.2	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIM1925S	1/20/2020 3:32:16PM	Initial	6.6		-1.92	80.3	
0 to 5	SIM1925S	1/24/2020 2:13:56PM	4	8.0		-1.00	85.0	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIM1925S	1/24/2020 2:13:56PM	4	8.0		-0.90	85.0	
0 to 5	SIM1925S	4/10/2020 12:31:07PM	Initial	10.0		-2.90	70.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
0 to 5	SIM1925S	4/10/2020 12:31:07PM	Initial	10.0		0.00	70.0	
0 to 5	SIM1925S	5/21/2020 2:59:54PM	Initial	7.6		-0.77	90.9	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIM1925S	5/21/2020 2:59:54PM	Initial	7.6		-0.08	90.4	
0 to 5	SIM1925S	6/5/2020 1:50:22PM	Initial	5.3		-1.40	95.0	NSPS/EG CAI;Dec. Flow/Vac.;Surging;Air Leak
0 to 5	SIM1925S	6/5/2020 1:50:22PM	Initial	5.3		-1.40	96.0	

5-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range 01-Jan-2020 to 30-Jun-2020
Report Generated 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	% O2	% N2	Static Press	Gas Temp	Comments
0 to 5	SIM2054S	2/18/2020 2:57:15PM	Initial	9.6		0.00	75.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2054S	2/18/2020 2:57:15PM	Initial	9.6		-0.60	85.0	
0 to 5	SIM2061D	2/21/2020 1:12:46PM	Initial	20.1		0.00	78.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2061D	2/21/2020 1:12:46PM	Initial	20.1		-22.70	80.0	
0 to 5	SIM2061D	2/21/2020 1:16:13PM	0	14.8		-27.10	77.0	NSPS/EG CAI
0 to 5	SIM2061D	2/21/2020 1:16:13PM	0	14.8		-27.00	77.0	
0 to 5	SIM2061D	3/5/2020 1:44:28PM	Initial	18.6		-27.40	79.0	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIM2061D	3/5/2020 1:44:28PM	Initial	18.6		-27.10	78.0	
0 to 5	SIM2061D	4/20/2020 1:14:39PM	Initial	14.5		-0.30	68.0	NSPS/EG CAI;Fully Closed
0 to 5	SIM2061D	4/20/2020 1:14:39PM	Initial	14.5		-0.10	66.0	
0 to 5	SIM2061D	5/22/2020 8:31:02AM	Initial	19.5		-31.20	77.1	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIM2061D	5/22/2020 8:31:02AM	Initial	19.5		-31.64	77.7	
0 to 5	SIM2064D	2/7/2020 2:07:05PM	Initial	14.3		-35.70	76.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
0 to 5	SIM2064D	2/7/2020 2:07:05PM	Initial	14.3		0.00	72.0	
0 to 5	SIM2064D	3/2/2020 8:52:08AM	Initial	13.2		-20.80	61.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
0 to 5	SIM2064D	3/2/2020 8:52:08AM	Initial	13.2		-14.10	60.0	

S-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	% O2	% N2	Static Press	Gas Temp	Comments
0 to 5	SIMW1352	2/7/2020 12:13:01PM	Initial	14.6		-26.50	72.0	NSPS/EG CAI;Barely Open
0 to 5	SIMW1352	2/7/2020 12:13:01PM	Initial	14.6		-26.70	71.0	
0 to 5	SIMW1781	4/8/2020 12:52:11PM	Initial	17.3		-34.10	72.0	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIMW1781	4/8/2020 12:52:11PM	Initial	17.3		-34.40	73.0	
0 to 5	SIMW1785	5/15/2020 9:02:21AM	Initial	11.2		-0.40	95.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
0 to 5	SIMW1785	5/15/2020 9:02:21AM	Initial	11.2		-0.10	91.0	
0 to 5	SIMW1785	6/4/2020 9:00:58AM	Initial	8.5		-0.32	100.7	NSPS/EG CAI;Barely Open
0 to 5	SIMW1785	6/4/2020 9:00:58AM	Initial	8.5		-0.39	100.8	
0 to 5	SIMW1811	12/18/2019 12:23:47PM	Initial	5.2		-24.71	120.2	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIMW1811	12/18/2019 12:23:47PM	Initial	5.2		-20.07	119.3	

5-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	% O2	% N2	Static Press	Gas Temp	Comments
0 to 5	SIMW802D	12/3/2019 10:51:07AM	Initial	18.3		-2.70	76.0	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIMW802D	12/3/2019 10:51:07AM	Initial	18.3		-0.70	76.0	
0 to 5	SIMW802D	12/3/2019 10:51:07AM	Initial	18.3		-2.70	76.0	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIMW802D	12/3/2019 10:51:07AM	Initial	18.3		-0.70	76.0	
0 to 5	SIMW802D	2/5/2020 11:09:24AM	Initial	14.4		-0.10	82.0	NSPS/EG CAI;Barely Open
0 to 5	SIMW802D	2/5/2020 11:09:24AM	Initial	14.4		-0.20	80.0	
0 to 5	SIMW802D	3/2/2020 8:48:10AM	Initial	12.1		-0.50	72.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
0 to 5	SIMW802D	3/2/2020 8:48:10AM	Initial	12.1		0.00	72.0	
0 to 5	SIMW802D	4/8/2020 8:57:04AM	Initial	12.8		-1.30	79.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
0 to 5	SIMW802D	4/8/2020 8:57:04AM	Initial	12.8		0.00	71.0	
0 to 5	SIMW802D	6/4/2020 9:05:12AM	Initial	11.8		-1.51	103.3	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIMW802D	6/4/2020 9:05:12AM	Initial	11.8		-0.68	103.4	

S-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Static Press ("H2O)	% O2	% N2	Gas Temp	Comments
0 to 5	SIM1924S	2/6/2020 1:53:17PM	Initial	0.00	0.0		82.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1924S	2/6/2020 1:53:17PM	0	0.00	0.0		83.0	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM1924S	2/11/2020 1:49:12PM	5	0.00	0.0		83.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1924S	3/6/2020 8:21:00AM	Initial	0.00	0.0		86.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1924S	4/10/2020 12:17:13PM	Initial	0.00	19.7		64.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
0 to 5	SIM1925S	1/30/2020 3:03:48PM	Initial	0.70	0.0		82.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1925S	2/6/2020 1:21:37PM	Initial	0.00	0.0		79.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1925S	3/5/2020 1:26:18PM	Initial	0.10	0.0		84.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1925S	4/10/2020 12:31:07PM	Initial	0.00	10.0		70.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
5 to 15	SIM1925S	4/20/2020 10:30:08AM	10	0.10	0.1		70.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1925S	5/27/2020 8:16:44AM	Initial	0.01	6.1		83.4	NSPS/EG CAI;Barely Open;Fully Closed;Dec. Flow/Vac.
0 to 5	SIM1925S	5/29/2020 2:15:30PM	2	1.35	0.0		88.6	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1925S	6/16/2020 5:08:54PM	Initial	0.50	0.2		81.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1926S	2/6/2020 9:26:53AM	Initial	0.10	0.1		96.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1926S	3/5/2020 1:30:25PM	Initial	0.00	0.0		105.0	NSPS/EG CAI;Inc. Flow/Vac.

S-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Static Press ("H2O)	% O2	% N2	Gas Temp	Comments
0 to 5	SIM2052D	5/27/2020 8:55:29AM	Initial	0.11	0.3		90.4	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2052S	2/21/2020 3:09:25PM	Initial	0.20	0.0		77.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2054D	2/18/2020 2:55:24PM	Initial	183.90	0.0		88.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2054S	2/18/2020 2:57:15PM	Initial	0.00	9.6		75.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2054S	2/18/2020 2:57:15PM	0	-0.60	9.6		85.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2061D	2/21/2020 1:12:46PM	Initial	0.00	20.1		78.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2061D	2/21/2020 1:12:46PM	0	-22.70	20.1		80.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2061D	2/21/2020 1:16:13PM	0	-27.10	14.8		77.0	NSPS/EG CAI
0 to 5	SIM2061D	2/21/2020 1:16:13PM	0	-27.00	14.8		77.0	NSPS/EG CAI
0 to 5	SIM2061D	2/25/2020 8:10:47AM	4	24.40	0.0		73.0	
0 to 5	SIM2061D	2/25/2020 8:11:46AM	Initial	24.40	0.0		73.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2061D	4/10/2020 11:48:53AM	Initial	0.00	0.1		65.0	NSPS/EG CAI;Inc. Flow/Vac.;NSPS/EG Parameter Corrective Action Completed (PCAC_O2)
0 to 5	SIM2061S	2/21/2020 1:19:39PM	Initial	1.30	0.0		87.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2064D	2/7/2020 2:07:05PM	Initial	0.00	14.3		72.0	NSPS/EG CAI;Dec. Flow/Vac ;Fully Closed
0 to 5	SIM2064D	2/8/2020 10:09:48AM	1	7.70	2.8		72.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2064D	5/15/2020 9:09:14AM	Initial	0.00	13.1		80.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed

S-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Static Press ("H2O)	% O2	% N2	Gas Temp	Comments
0 to 5	SIMW1561	2/7/2020 3:25:38PM	Initial	0.00	0.0		98.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1781	5/21/2020 8:14:08AM	Initial	0.05	0.0		78.5	NSPS/EG CAI;Inc. Flow/Vac.;Watered In;NSPS/EG Parameter Corrective Action Completed (PCAC_O2)
0 to 5	SIMW1797	6/5/2020 10:42:37AM	Initial	28.05	0.1		108.8	NSPS/EG CAI;Fully Open;Inc. Flow/Vac.
0 to 5	SIMW1808	2/8/2020 12:48:28PM	Initial	0.20	0.0		92.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2041	2/21/2020 1:36:05PM	Initial	2.10	0.0		102.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2046	2/26/2020 9:47:54AM	Initial	3.10	0.1		82.0	
0 to 5	SIMW2046	2/26/2020 9:47:54AM	0	2.50	0.1		80.0	
0 to 5	SIMW2046	2/26/2020 9:50:08AM	0	3.10	0.1		82.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2047	6/9/2020 1:37:19PM	Initial	0.01	0.1		113.5	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2048	3/6/2020 4:06:07PM	Initial	10.10	0.0		89.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2048	3/17/2020 11:27:09AM	Initial	9.00	0.0		70.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2049	2/11/2020 1:45:08PM	Initial	4.60	0.0		77.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2053	2/21/2020 1:23:44PM	Initial	3.20	0.0		98.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2055	3/10/2020 7:34:41AM	Initial	7.30	0.4		112.0	Inc. Flow/Vac.;NSPS/EG CAI

5-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Static Press ("H2O)	% O2	% N2	Gas Temp	Comments
0 to 5	SIMW2076	6/2/2020 3:58:37PM	Initial	1.20	0.5		100.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2077	6/2/2020 4:02:39PM	Initial	1.40	0.0		89.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2078	6/2/2020 4:07:25PM	Initial	1.40	0.0		91.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2079	6/2/2020 4:11:57PM	Initial	2.50	0.0		90.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2080	6/2/2020 4:15:22PM	Initial	4.00	0.0		92.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2082	2/27/2020 2:22:44PM	Initial	0.20	0.3		86.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2084	3/6/2020 7:58:43AM	Initial	0.40	0.0		61.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2087	6/2/2020 5:23:21PM	Initial	15.20	0.1		92.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2088	6/2/2020 5:29:14PM	Initial	7.90	0.0		93.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW802D	2/19/2020 8:03:13AM	Initial	0.00	0.0		75.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW802D	3/2/2020 8:48:10AM	Initial	0.00	12.1		72.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
5 to 15	SIMW802D	3/10/2020 8:56:47AM	8	0.00	0.0		58.0	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW802D	4/8/2020 8:57:04AM	Initial	0.00	12.8		71.0	NSPS/EG CAI;Dec. Flow/Vac.;Fully Closed
5 to 15	SIMW802D	4/20/2020 1:46:42PM	12	0.00	0.2		76.0	NSPS/EG CAI;Inc. Flow/Vac.

S-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Results for Gas Temperature

Range	Device ID	Monitoring Date/Time	Days Exceeded	Gas Temp (oF)	% O2	% N2	Static Press	Comments
0 to 5	SIH1363B	4/8/2020 11:16:19AM	Initial	140.0	0.0		-16.40	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIH1401B	2/7/2020 12:37:39PM	Initial	131.0	0.0		-27.80	NSPS/EG CAI;Fully Open
0 to 5	SIH1404B	1/21/2020 2:47:51PM	Initial	131.0	0.0		-40.90	Fully Open;NSPS/EG CAI;No Adj. Made
0 to 5	SIH1404B	1/21/2020 2:47:51PM	0	132.0	0.0		-40.90	Fully Open;NSPS/EG CAI;No Adj. Made
0 to 5	SIH2001B	5/22/2020 11:23:53AM	Initial	131.3	6.4		-1.82	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIH2001B	5/22/2020 11:23:53AM	0	131.3	6.4		-1.17	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIM1564S	5/22/2020 6:54:24AM	Initial	131.0	0.1		-33.20	NSPS/EG CAI;Elev Temp Mitigation;Fully Open;Surging;No Adj. Made
0 to 5	SIM1564S	5/22/2020 6:54:24AM	0	132.0	0.1		-32.60	NSPS/EG CAI;Elev Temp Mitigation;Fully Open;Surging;No Adj. Made
0 to 5	SIM1567S	1/20/2020 2:10:56PM	Initial	132.3	0.3		-34.99	NSPS/EG CAI;Fully Open
0 to 5	SIM1567S	1/20/2020 2:10:56PM	0	133.6	0.3		-34.81	NSPS/EG CAI;Fully Open
0 to 5	SIM1570S	10/17/2019 9:12:20AM	Initial	131.0	0.0		-1.20	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1570S	10/17/2019 9:12:20AM	0	132.0	0.0		-1.30	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM1570S	10/25/2019 10:44:23AM	8	132.0	0.0		-1.50	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM1570S	10/25/2019 10:44:23AM	8	133.0	0.0		-1.90	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM1570S	10/25/2019 2:47:56PM	8					Reading taken with Dräger tube.
0 to 15	SIM1570S	10/25/2019 2:47:56PM	8					Reading taken with Dräger tube.

S-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Gas Temp (oF)	% O2	% N2	Static Press	Comments
0 to 5	SIM1782D	1/20/2020 8:23:05AM	Initial	132.8	0.1		-39.32	NSPS/EG CAI;Fully Open
0 to 5	SIM1782D	1/20/2020 8:23:05AM	0	132.6	0.1		-39.25	NSPS/EG CAI;Fully Open
0 to 5	SIM1782D	1/30/2020 2:00:35PM	10	131.0	0.0		-38.30	NSPS/EG CAI;Fully Open
0 to 5	SIM1782D	1/30/2020 2:00:35PM	10	132.0	0.0		-38.20	NSPS/EG CAI;Fully Open
0 to 5	SIM1782D	1/30/2020 2:05:52PM	10					Reading taken with Dräger tube
0 to 5	SIM1782D	1/30/2020 2:56:52PM	10					Reading taken with Dräger tube
0 to 5	SIM1782D	4/8/2020 8:16:49AM	Initial	132.0	0.3		-36.90	NSPS/EG CAI;Fully Open
0 to 5	SIM1782D	4/8/2020 8:16:49AM	0	132.0	0.3		-33.60	NSPS/EG CAI;Fully Open
0 to 5	SIM1782D	4/22/2020 8:52:09AM	14	132.0	0.2		-32.80	NSPS/EG CAI;Fully Open
0 to 5	SIM1782D	4/22/2020 9:52:09AM	14	132.0	0.2		-32.50	NSPS/EG CAI;Fully Open
0 to 5	SIM1782D	4/22/2020 5:46:13PM	14					Reading taken with Dräger Tube
0 to 5	SIM1782D	4/22/2020 5:56:13PM	14					Reading taken with Dräger Tube
0 to 5	SIM1788D	5/18/2020 1:52:02PM	Initial	140.3	0.1		-38.11	NSPS/EG CAI;Fully Open
0 to 5	SIM1793D	1/30/2020 1:34:00PM	Initial	134.0	0.0		-20.30	NSPS/EG CAI
0 to 5	SIM1793D	1/30/2020 1:34:00PM	0	134.0	0.0		-18.00	NSPS/EG CAI
0 to 5	SIM1793S	10/17/2019 12:44:18PM	Initial	131.0	0.0		-13.00	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM1793S	10/17/2019 12:44:18PM	0	132.0	0.0		-13.70	NSPS/EG CAI;Inc. Flow/Vac.

S-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Gas Temp (oF)	% O2	% N2	Static Press	Comments
0 to 5	SIM1805S	2/6/2020 12:55:54PM	0	134.0	1.3		-31.40	NSPS/EG CAI;Fully Open
5 to 15	SIM1805S	2/11/2020 2:20:57PM	5	131.0	1.9		-23.90	NSPS/EG CAI;Fully Open
5 to 15	SIM1805S	2/11/2020 2:20:57PM	5	131.0	1.9		-23.90	NSPS/EG CAI;Fully Open
0 to 5	SIM1805S	4/10/2020 10:51:27AM	Initial	135.0	0.0		-32.40	NSPS/EG CAI;Fully Open
0 to 5	SIM1805S	4/10/2020 10:51:27AM	0	136.0	0.0		-29.70	NSPS/EG CAI;Fully Open
5 to 15	SIM1805S	4/22/2020 10:01:43AM	12	136.0	0.0		-31.70	NSPS/EG CAI;Fully Open
5 to 15	SIM1805S	4/22/2020 10:01:43AM	12	137.0	0.0		-28.80	NSPS/EG CAI;Fully Open
5 to 15	SIM1805S	4/22/2020 5:57:11PM	12					Reading taken with Dragger Tube
5 to 15	SIM1805S	4/22/2020 5:57:11PM	12					Reading taken with Dragger Tube
0 to 5	SIM1923S	5/22/2020 9:01:03AM	Initial	139.5	4.3		-0.97	NSPS/EG CAI;Fully Closed;Dec. Flow/Vac
0 to 5	SIM2042S	5/18/2020 1:41:34PM	Initial	132.0	0.1		-1.18	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM2042S	5/26/2020 9:17:55AM	8	132.3	0.0		-3.29	NSPS/EG CAI;Dec. Flow/Vac.
5 to 15	SIM2042S	5/26/2020 9:17:55AM	8	131.0	0.0		-2.11	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIM2052S	5/22/2020 9:25:30AM	Initial	133.8	0.3		-4.17	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2052S	5/22/2020 9:25:30AM	0	136.4	0.3		-4.57	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM2052S	5/27/2020 8:58:26AM	5	135.7	0.0		-4.62	NSPS/EG CAI;Dec. Flow/Vac.
5 to 15	SIM2052S	5/27/2020 8:58:26AM	5	136.0	0.0		-4.58	NSPS/EG CAI;Dec. Flow/Vac.
5 to 15	SIM2052S	6/5/2020 5:21:53PM	14	131.0	0.0		-7.80	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM2052S	6/5/2020 5:21:53PM	14	134.0	0.0		-3.10	NSPS/EG CAI;Inc. Flow/Vac.

5-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Gas Temp (oF)	% O2	% N2	Static Press	Comments
5 to 15	SIM2064S	3/2/2020 8:54:46AM	12	139.0	0.3		-6.00	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2081S	4/8/2020 8:32:16AM	Initial	132.0	0.2		-14.90	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIM2081S	4/8/2020 8:32:16AM	0	132.0	0.2		-16.20	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM2081S	4/22/2020 8:45:39AM	14	133.0	0.0		-18.80	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM2081S	4/22/2020 8:45:39AM	14	133.0	0.0		-20.70	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIM2081S	4/22/2020 5:57:28PM	14					Reading taken with Drager Tube
5 to 15	SIM2081S	4/22/2020 5:57:28PM	14					Reading taken with Drager Tube
0 to 5	SIMW1107	12/18/2019 1:32:28PM	Initial	131.3	0.2		-21.91	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1107	12/18/2019 1:32:28PM	0	131.2	0.2		-25.00	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1107	12/23/2019 1:38:19PM	5	131.3	0.2		-27.72	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1107	12/23/2019 1:38:19PM	5	131.3	0.2		-29.51	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1107	12/23/2019 2:52:38PM	5					Reading taken with Drager tube
5 to 15	SIMW1107	12/23/2019 2:52:48PM	5					Reading taken with Drager tube

5-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Gas Temp (oF)	% O2	% N2	Static Press	Comments
0 to 5	SIMW1233	2/19/2020 8:23:17AM	Initial	142.0	0.9		-32.40	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIMW1233	2/19/2020 8:23:17AM	0	143.0	0.9		-31.80	NSPS/EG CAI;Dec. Flow/Vac
0 to 5	SIMW1233	4/13/2020 12:36:43PM	Initial	141.0	0.0		-31.00	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1233	4/13/2020 12:36:43PM	0	141.0	0.0		-32.40	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1233	4/21/2020 8:52:12AM	8	142.0	0.1		-33.20	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1233	4/21/2020 8:52:12AM	8	142.0	0.1		-33.40	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1233	4/21/2020 5:49:30PM	8					Reading taken with Dragar Tube
5 to 15	SIMW1233	4/21/2020 5:49:30PM	8					Reading taken with Dragar Tube
0 to 5	SIMW1233	6/23/2020 5:18:05PM	Initial	140.0	0.1		-25.30	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIMW1565	10/25/2019 10:34:39AM	Initial	131.0	2.1		-8.40	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1565	11/6/2019 9:11:06AM	12	133.0	1.6		-10.70	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1565	11/6/2019 9:11:06AM	12	133.0	1.6		-10.00	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1565	2/6/2020 3:00:03PM	Initial	132.0	1.8		-9.90	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1565	2/6/2020 3:00:03PM	0	133.0	1.8		-8.30	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1565	2/19/2020 8:18:53AM	13	133.0	2.0		-8.50	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW1565	2/19/2020 8:18:53AM	13	134.0	2.0		-8.70	NSPS/EG CAI;Inc. Flow/Vac.

5-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Gas Temp (oF)	% O2	% N2	Static Press	Comments
0 to 5	SIMW1794	5/22/2020 10:42:36AM	Initial	131.3	0.2		-19.37	NSPS/EG CAI;Fully Open
0 to 5	SIMW1794	5/22/2020 10:42:36AM	0	131.5	0.2		-19.37	NSPS/EG CAI;Fully Open
0 to 5	SIMW1809	1/29/2020 1:08:54PM	Initial	131.0	0.1		-17.10	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1809	1/29/2020 1:08:54PM	0	131.0	0.1		-17.70	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1813	12/18/2019 7:55:10AM	Initial	132.4	1.8		-1.71	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1813	12/18/2019 7:55:10AM	0	132.4	1.8		-1.81	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1813	4/13/2020 9:10:01AM	Initial	133.0	0.1		-4.20	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW1813	4/13/2020 9:10:01AM	0	134.0	0.1		-4.80	NSPS/EG CAI;Inc. Flow/Vac.

5-15 EXCEEDANCE REPORT: Simi Valley Landfill and Recycling Center
Range: 01-Jan-2020 to 30-Jun-2020
Report Generated: 22-Sep-2020 10:50:07PM

Range	Device ID	Monitoring Date/Time	Days Exceeded	Gas Temp (oF)	% O2	% N2	Static Press	Comments
5 to 15	SIMW2065	6/12/2020 4:45:56PM	7	137.0	1.2		-0.40	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW2065	6/12/2020 4:45:56PM	7	138.0	1.2		-0.40	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2070	3/4/2020 9:02:21AM	Initial	132.0	0.0		-6.70	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIMW2070	3/4/2020 9:02:21AM	0	132.0	0.0		-5.60	NSPS/EG CAI;Dec. Flow/Vac.
5 to 15	SIMW2070	3/10/2020 8:20:20AM	6	133.0	0.2		-4.70	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW2070	3/10/2020 8:20:20AM	6	133.0	0.2		-6.50	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW2070	3/10/2020 5:44:47PM	6					Reading taken with Dwiger Tube
5 to 15	SIMW2070	3/10/2020 5:44:47PM	6					Reading taken with Dwiger Tube
0 to 5	SIMW2080	6/9/2020 8:51:15AM	Initial	132.5	0.0		-3.84	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2080	6/9/2020 8:51:15AM	0	132.8	0.0		-6.86	NSPS/EG CAI;Inc. Flow/Vac.
0 to 5	SIMW2082	3/4/2020 8:55:43AM	Initial	134.0	0.0		-12.00	NSPS/EG CAI;Dec. Flow/Vac.
0 to 5	SIMW2082	3/4/2020 8:55:43AM	0	134.0	0.0		-11.50	NSPS/EG CAI;Dec. Flow/Vac.
5 to 15	SIMW2082	3/10/2020 8:17:36AM	6	134.0	0.1		-11.10	NSPS/EG CAI;Inc. Flow/Vac.
5 to 15	SIMW2082	3/10/2020 8:17:36AM	6	135.0	0.1		-11.50	NSPS/EG CAI;Inc. Flow/Vac.

APPENDIX C

Site Surface/Cover Inspection Integrity Logs

SVLRC Cover Integrity Report

Technician: Dustin Colyar		Date: 02/28/20	
Location: Marker A		Location: Marker B	
Description and corrective action: Surface cracking. Dirt added, compacted and watered down to correct. Shallow wells installed. Repairs ongoing as dirt becomes available. Approximately 70% complete.		Description and corrective action: Exposed concrete and debris. Area to be recovered, tracked, and watered as dirt becomes available.	
Identified: 09/2019	Repaired: In Progress	Identified: 02/2020	Repaired:

Location: Marker C		Location: Marker D	
Description and corrective action: Weak cover observed. Area to be recovered, tracked, and watered as dirt becomes available.		Description and corrective action: Surface cracking. Area to to be tracked and watered.	
Identified: 02/2020	Repaired:	Identified: 02/2020	Repaired:

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:
Technician Signature:		Manager Signature:	

SVLRC Cover Integrity Report

Technician: Dustin Colyar		Date: 03/31/20	
Location: Marker A		Location: Marker B	
Description and corrective action: Surface cracking. Dirt added, compacted and watered down to correct. Shallow wells installed. Repairs ongoing as dirt becomes available. Approximately 70% complete. Progress halted due to weather and lack of cover material.		Description and corrective action: Exposed conrete and debris. Area to be recovered, tracked, and watered as dirt becomes available. Progress halted due to weather and lack of cover material.	
Identified: 09/2019	Repaired: In Progress	Identified: 02/2020	Repaired: In Progress

Location: Marker C		Location: Marker D	
Description and corrective action: Weak cover. Area to be recovered, tracked, and watered as dirt becomes available. Progress halted due to weather.		Description and corrective action: Surface cracking. Area to be tracked and watered. Progress halted due to weather.	
Identified: 02/2020	Repaired: In Progress	Identified: 02/2020	Repaired: In Progress

Location: Marker E		Location: Marker F	
Description and corrective action: Cover dirt spread out and tracked to prevent ponding.		Description and corrective action: Ponding. Cover dirt and grading necessary.	
Identified: 03/2020	Repaired: 03/2020	Identified: 03/2020	Repaired: In Progress

Location: Marker G		Location: Marker H	
Description and corrective action: Ponding. Cover dirt and grading necessary.		Description and corrective action: Ponding. Cover dirt and grading necessary.	
Identified: 03/2020	Repaired: In Progress	Identified: 03/2020	Repaired: In Progress

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:
Technician Signature:		**Manager Signature:**	

SVLRC Cover Integrity Report

Technician: Dustin Colyar		Date: 06/29/20	
Location: Marker A		Location: Marker B	
Description and corrective action: Exposed conrete and debris. Area to be recovered, tracked, and watered		Description and corrective action: Weak cover. Area to be recovered, tracked, and watered as dirt becomes available.	
Identified: 02/2020	Repaired: 06/2020	Identified: 02/2020	Repaired: In Progress

Location: Marker C		Location: Marker D	
Description and corrective action: Surface cracking. Area to be tracked and watered.		Description and corrective action: Weak cover. Area to be recovered, tracked, and watered as dirt becomes available.	
Identified: 02/2020	Repaired: 06/2020	Identified: 06/2020	Repaired: In Progress

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:

Location:		Location:	
Description and corrective action:		Description and corrective action:	
Identified:	Repaired:	Identified:	Repaired:
Technician Signature:		**Manager Signature:**	

SIMI VALLEY LANDFILL
FLARE NO. 3 DOWNTIME LOG
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
1	x Shutdown Event x Startup Event x Malfunction Event	Flare	1/7/20 16:13 1/7/20 20:01	1/7/20 16:15 1/7/20 20:05	0.03 0.07	3.80	Power Outage	Nick T., Dustin C. & Collin P
2	x Shutdown Event x Startup Event Malfunction Event	Flare	1/17/20 8:31 1/17/20 11:31	1/17/20 8:33 1/17/20 11:35	0.03 0.07	3.00	Flare Clean	Nick T., Dustin C. & Collin P
3	x Shutdown Event x Startup Event x Malfunction Event	Flare	1/18/20 14:51 1/18/20 16:49	1/18/20 14:53 1/18/20 16:53	0.03 0.07	1.97	Compressor failure	Nick T., Dustin C. & Collin P
4	x Shutdown Event x Startup Event Malfunction Event	Flare	1/20/20 9:03 1/20/20 9:47	1/20/20 9:05 1/20/20 9:51	0.03 0.07	0.73	Compressor Repair	Nick T., Dustin C. & Collin P
5	x Shutdown Event x Startup Event x Malfunction Event	Flare	1/25/20 11:37 1/25/20 12:31	1/25/20 11:39 1/25/20 12:35	0.03 0.07	0.90	VFD Faliure	Nick T., Dustin C. & Collin P
6	x Shutdown Event x Startup Event Malfunction Event	Flare	1/27/20 9:27 1/27/20 14:26	1/27/20 9:29 1/27/20 14:30	0.03 0.07	4.98	Flare Cleaning	Nick T., Dustin C. & Collin P
7	x Shutdown Event x Startup Event Malfunction Event	Flare	2/3/20 7:26 2/3/20 15:03	2/3/20 7:28 2/3/20 15:07	0.03 0.07	7.62	24" header Tie-in	Nick T., Dustin C. & Collin P
8	x Shutdown Event x Startup Event x Malfunction Event	Flare	2/8/20 17:11 2/8/20 18:02	2/8/20 17:13 2/8/20 18:06	0.03 0.07	0.85	VFD Overload	Nick T., Dustin C. & Collin P
9	x Shutdown Event x Startup Event Malfunction Event	Flare	2/10/20 3:12 2/10/20 5:46	2/10/20 3:14 2/10/20 5:50	0.03 0.07	2.57	Flare Cleaning	Nick T., Dustin C. & Collin P

SIMI VALLEY LANDFILL
FLARE NO. 3 DOWNTIME LOG
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
19	x Shutdown Event x Startup Event Malfunction Event	Flare	4/1/20 11:54	4/1/20 11:56	0.03	0.58	New PLC install and 12" tie-in/valve installation	Nick T., Dustin C. & Collin P
			4/1/20 12:29	4/1/20 12:33	0.07			
20	x Shutdown Event x Startup Event Malfunction Event	Flare	4/14/20 7:57	4/14/20 7:59	0.03	1.57	Flare Clean	Nick T., Dustin C. & Collin P
			4/14/20 9:31	4/14/20 9:35	0.07			
21	x Shutdown Event x Startup Event x Malfunction Event	Flare	4/22/20 11:17	4/22/20 11:19	0.03	3.73	VFD Overheat	Nick T., Dustin C. & Collin P
			4/22/20 15:01	4/22/20 15:05	0.07			
22	x Shutdown Event x Startup Event x Malfunction Event	Flare	4/23/20 14:55	4/23/20 14:57	0.03	0.37	VFD Overheat	Nick T., Dustin C. & Collin P
			4/23/20 15:17	4/23/20 15:21	0.07			
23	x Shutdown Event x Startup Event Malfunction Event	Flare	4/24/20 8:21	4/24/20 8:23	0.03	2.43	SCS Manifod Work	Nick T., Dustin C. & Collin P
			4/24/20 10:47	4/24/20 10:51	0.07			
24	x Shutdown Event x Startup Event Malfunction Event	Flare	4/25/20 6:29	4/25/20 6:31	0.03	7.33	SCS Manifod Work	Nick T., Dustin C. & Collin P
			4/25/20 13:49	4/25/20 13:53	0.07			
25	x Shutdown Event x Startup Event Malfunction Event	Flare	4/28/20 14:10	4/28/20 14:12	0.03	2.28	Flare Clean	Nick T., Dustin C. & Collin P
			4/28/20 16:27	4/28/20 16:31	0.07			
26	x Shutdown Event x Startup Event Malfunction Event	Flare	4/29/20 7:50	4/29/20 7:52	0.03	149.87	Flare 4 Start/Troubleshooting	Nick T., Dustin C. & Collin P
			5/5/20 13:42	5/5/20 13:46	0.07			
27	x Shutdown Event x Startup Event Malfunction Event	Flare	5/5/20 14:18	5/5/20 14:20	0.03	25.73	Flare 4 Start/Troubleshooting	Nick T., Dustin C. & Collin P
			5/6/20 16:02	5/6/20 16:06	0.07			

SIMI VALLEY LANDFILL
FLARE NO. 3 DOWNTIME LOG
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
37	x Shutdown Event x Startup Event Malfunction Event	Flare	6/7/20 7:50 6/8/20 15:40	6/7/20 7:52 6/8/20 15:44	0.03 0.07	31.83	Flare 3 bottom cleanout/thermocouple replacement	Nick T., Dustin C. & Collin P
38	x Shutdown Event x Startup Event Malfunction Event	Flare	6/19/20 7:15 6/19/20 11:00	6/19/20 7:17 6/19/20 11:04	0.03 0.07	3.75	Enviroserv sump clean	Nick T., Dustin C. & Collin P
39	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/20/20 0:00 6/21/20 6:35	6/20/20 0:02 6/21/20 6:39	0.03 0.07	30.58	Burner High Shutdown Error	Nick T., Dustin C. & Collin P
40	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/21/20 8:45 6/21/20 9:15	6/21/20 8:47 6/21/20 9:19	0.03 0.07	0.50	VFD Failure	Nick T., Dustin C. & Collin P
41	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/23/20 6:40 6/23/20 9:25	6/23/20 6:42 6/23/20 9:29	0.03 0.07	2.75	Burner High Shutdown Error	Nick T., Dustin C. & Collin P
42	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/24/20 21:50 6/25/20 2:20	6/24/20 21:52 6/25/20 2:24	0.03 0.07	4.50	Biogas Error	Nick T., Dustin C. & Collin P
43	x Shutdown Event x Startup Event Malfunction Event	Flare	6/25/20 10:45 6/25/20 14:30	6/25/20 10:47 6/25/20 14:34	0.03 0.07	3.75	EMS Burner Fix	Nick T., Dustin C. & Collin P
44	x Shutdown Event x Startup Event Malfunction Event	Flare	6/26/20 6:40 6/26/20 12:30	6/26/20 6:42 6/26/20 12:34	0.03 0.07	5.83	Biogas Troubleshooting	Nick T., Dustin C. & Collin P

SIMI VALLEY LANDFILL
FLARE #4 DOWNTIME LOG
January - June 2020

Flare started up: 4/29/20 18:02

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
8	x Shutdown Event x Startup Event Malfunction Event	Flare	5/5/20 14:20 5/5/20 16:26	5/5/20 14:22 5/5/20 16:30	0.03 0.07	2.10	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
9	x Shutdown Event x Startup Event Malfunction Event	Flare	5/6/20 5:28 5/6/20 7:24	5/6/20 5:30 5/6/20 7:28	0.03 0.07	1.93	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
10	x Shutdown Event x Startup Event Malfunction Event	Flare	5/6/20 9:50 5/6/20 17:20	5/6/20 9:52 5/6/20 17:24	0.03 0.07	7.50	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
11	x Shutdown Event x Startup Event Malfunction Event	Flare	5/8/20 9:34 5/9/20 13:14	5/8/20 9:36 5/9/20 13:18	0.03 0.07	27.67	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
12	x Shutdown Event x Startup Event Malfunction Event	Flare	5/11/20 8:34 5/11/20 16:10	5/11/20 8:36 5/11/20 16:14	0.03 0.07	7.60	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
13	x Shutdown Event x Startup Event Malfunction Event	Flare	5/19/20 7:20 5/19/20 16:32	5/19/20 7:22 5/19/20 16:36	0.03 0.07	9.20	Sump Cleaning	Collin P, Dustin C and Nick T
14	x Shutdown Event x Startup Event x Malfunction Event	Flare	5/24/20 6:02 5/24/20 9:52	5/24/20 6:04 5/24/20 9:56	0.03 0.07	3.83	H2S Breakthrough Warning	Collin P, Dustin C and Nick T

Simi GCCS Downtime January - June 2020		
Date of Shutdown	Duration of Event (Hours)	Cause or Reason
4/29/20 - 4/30/20	11.73	Flare #4 initial startup/troubleshooting
4/30/2020	8.77	Flare #4 startup/troubleshooting
4/30/2020	0.3	Flare #4 startup/troubleshooting
5/1/2020	10.43	Flare #4 startup/troubleshooting
5/1/2020	0.9	Flare #4 startup/troubleshooting
5/4/2020	4.93	Flare #4 startup/troubleshooting
5/5/2020	4.87	Flare #4 startup/troubleshooting
5/5/2020	2.1	Flare #4 startup/troubleshooting
5/6/2020	1.93	Flare #4 startup/troubleshooting
5/6/2020	6.2	Flare #4 startup/troubleshooting
5/8/2020	4.43	Flare #4 startup/troubleshooting
5/11/2020	7.6	Flare #4 startup/troubleshooting
5/19/2020	9.2	GCCS Sump Cleaning
5/24/2020	3.67	H2S Breakthrough Warning
5/28/2020	3.56	Burner Overheating Error Detected
5/29/2020	4.0	Thermocouple Repairs
6/8/2020	0.24	Power Outage
6/19/2020	3.75	GCCS Sump Cleaning
6/21/2020	4.08	VFD Malfunction
6/23/2020	2.75	Burner High Shutdown Error Detected
6/25/2020	3.41	EMS Burner Fix
6/26/2020	5.83	Biogas System Troubleshooting

WASTE MANAGEMENT

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

April 30, 2020

Mr. Scott Tignac
2801 Madera Road
Simi Valley, California 93065

First Quarter 2020 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 First Quarter 2020 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, 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).

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.

FIRST QUARTER SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and Component leak monitoring results completed during the First Quarter 2020.

Instantaneous Surface Emission Monitoring Results

The Instantaneous surface monitoring was performed on February 28, 2020, in accordance with the NSPS, Rule 74.1.17, CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

Initial Monitoring Event Exceedances of 500 ppmv

There were eleven (11) exceedances of 500 ppmv as methane detected during the initial monitoring event conducted on February 28, 2020. 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 event on March 9, 2020. Three (3) exceedances were observed during the ten-day re-monitoring event. RES personnel remediated the locations, and the following re-monitoring was conducted as described below.

Second Ten-Day Re-Monitoring Results

RES personnel performed the second ten-day re-monitoring event on March 19, 2020. 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 March 27, 2020. No exceedances were observed during the thirty-day re-monitoring event.

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

There were zero (0) readings between 200 ppmv and 499 ppmv, measured as methane detected during the initial monitoring event on February 28, 2020. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppmv but below 500 ppmv are required to be recorded.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on March 4, 2020, in accordance with the ACO, requirements outlined in CCR Title 17 §95469, and VCAPCD Rule 74.1.17. See Attachment B for details.

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) 613-2165.

Thank you,
Waste Management

Collin Pavelchik

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

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, A. Mebrahtu, S. Pope, A. Jones, D. Anderson, O. Peralta, A. peralta J. manning, W. Ford T. Kliewer, Cal. Gas Exp. Date: 1-19-23

Date: 2-28-20 Instrument Used: TVA-1000 Grid Spacing: 25"

Temperature: 60 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	SH	0815	0830	60	3	6	15	
2	AM	0815	0830	13	3	6	15	
3	SP	0815	0830	14	3	6	15	
4	AJ	0815	0830	10	3	6	15	
5	DA	0815	0830	1100	3	6	15	well 1796
6	OP	0815	0830	5000	3	6	15	well 1009
7	AP	0815	0830	600	3	6	15	Surface
8	WF	0815	0830	22	3	6	15	
9	JM	0815	0830	14	3	6	15	
10	TK	0815	0830	13	3	6	15	
11	SH	0830	0845	1000	4	6	15	Surface
12	AM	0830	0845	10	4	6	15	
13	SP	0830	0845	5000	4	6	15	Surface well 1219
14	AJ	0830	0845	12	4	6	15	
15	DA	0830	0845	2000	4	6	15	Surface
16	OP	0830	0845	16	4	6	15	
17	AP	0830	0845	8	4	6	15	
18	WF	0830	0845	8	4	6	15	
19	JM	0830	0845	9	4	6	15	
20	TK	0830	0845	6	4	6	15	
21	SH	0845	0900	12	4	6	16	
22	AM	0845	0900	5	4	6	16	
23	SP	0845	0900	18	4	6	16	
24	AJ	0845	0900	2000	4	6	16	Unmarked well
25	DA	0845	0900	16	4	6	16	
26	OP	0845	0900	9	4	6	16	
27	AP	0845	0900	9	4	6	16	
28	WF	0845	0900	5	4	6	16	
29	JM	0845	0900	8	4	6	16	
30	TK	0845	0900	7	4	6	16	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 4

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey | A. Jones | A. Peralta J. Manning
A. McBride | D. Anderson | W. Ford T. Villesmith
S. Pope | D. Peralta | Cal. Gas Exp. Date: 1-19-23

Date: 2-28-20 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 65 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
61	SP	0945	1000	8	3	5	15	
62	AJ	0945	1000	7	3	5	15	
63	DA	0945	1000	4	3	5	15	
64	DP	0945	1000	12	3	5	15	
65	AP	0945	1000	10	3	5	15	
66	WF	0945	1000	10	3	5	15	
67	JM	0945	1000	5	3	5	15	
68	TK	0945	1000	8	3	5	15	
69	AM	1000	1015	3	3	5	15	
70	SP	1000	1015	6	3	5	15	
71	AJ	1000	1015	1	3	5	15	
72	DA	1000	1015	2	3	5	15	
73	DP	1000	1015	8	3	5	15	
74	AP	1000	1015	7	3	5	15	
75	WF	1000	1015	5	3	5	15	
76	JM	1000	1015	20	3	5	15	
77	TK	1000	1015	8	3	5	15	
78	SH	1015	1030	20	3	5	15	
79	AM	1015	1030	17	3	5	15	
80	SP	1015	1030	1900	3	5	15	well 1809
81	AJ	1015	1030	14	3	5	15	
82	DA	1015	1030	12	3	5	15	
83	DP	1015	1030	15	3	5	15	
84	AP	1015	1030	20	3	5	15	
85	WF	1015	1030	20	3	5	15	
86	JM	1015	1030	8	3	5	15	
87	TK	1015	1030	9	3	5	15	
88	SH	1030	1045	11	3	4	15	
89	AM	1030	1045	13	3	4	15	
90	SP	1030	1045	10	3	4	15	

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 4

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Shawn Hershey _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 2-28-20 Instrument Used: ActiveTrack 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	
97								ActiveTrash
98								↓
99								
100								
101								

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 1

Waste Management Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs

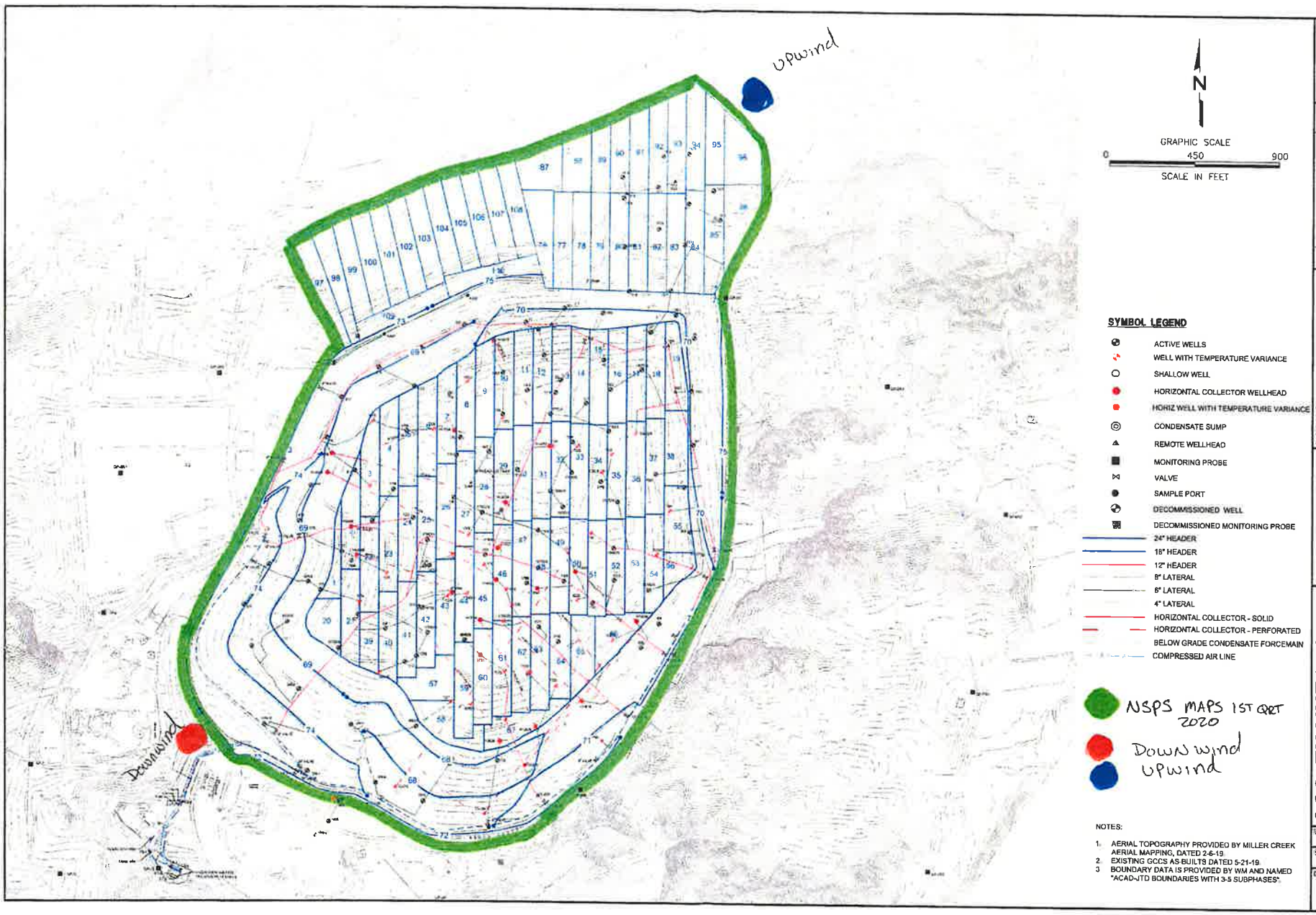
Quarter: 1st QTR 2020

Initial Monitoring Performed By: Shannon Hurshey

Follow-up Monitoring Performed By: Tony Lewis

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	
13	Y31	2-28-20	5000			3-9-20	479		3-27-20	287		Surface
13	Y32	↓	2500			↓		1,911	↓	106		well 1219
15	Y33		2060				388			82		Surface
15	Y34		1900				261			53		Surface
5	Y11		1600				440			182		well 1796
6	Y12		5000					2,480		301		well 1009
7	Y13		600				115			39		Surface
24	Y51		2000					1,500		206		Unmarked well
24	Y52		600				394			176		Surface
11	Y21		1000				277			132		Surface
30	Y22	↓	1900			↓	321		↓	150		well 1507


upwind
Downwind
N
GRAPHIC SCALE
0
450
900
SCALE IN FEET
SYMBOL LEGEND
ACTIVE WELLS
WELL WITH TEMPERATURE VARIANCE
SHALLOW WELL
HORIZONTAL COLLECTOR WELLHEAD
HORIZ WELL WITH TEMPERATURE VARIANCE
CONDENSATE SUMP
REMOTE WELLHEAD
MONITORING PROBE
VALVE
SAMPLE PORT
DECOMMISSIONED WELL
DECOMMISSIONED MONITORING PROBE
24" HEADER
18" HEADER
12" HEADER
8" LATERAL
6" LATERAL
4" LATERAL
HORIZONTAL COLLECTOR - SOLID
HORIZONTAL COLLECTOR - PERFORATED
BELOW GRADE CONDENSATE FORCEMAIN
COMPRESSED AIR LINE
NSPS MAPS 1ST QRT 2020
Down wind
upwind
NOTES:
1. AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING, DATED 2-6-19.
2. EXISTING GCCS AS-BUILTS DATED 5-21-19.
3 BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-JTD BOUNDARIES WITH 3-5 SUBPHASES".
NO.
REVISION
DATE
SHEET TITLE: BIM VALLEY LANDFILL GEM MAP
PROJECT TITLE: BIM VALLEY LANDFILL AND RECYCLING CENTER
2801 MADERA ROAD
BIM VALLEY, CALIFORNIA 93065
CLIENT:
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
DATE: 5-21-2019
SCALE: 1"= 450'
DRAWING NO.
1 of 1

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: S. Hershey, S. Pope, A Jones, T. Manning, O. Peralta, J. Wesson, W Ford T. Klingsmith, E. Ramirez JR D. Anderson

Cal. Gas Exp. Date: 1-19-23

Date: 3-4-20 Instrument Used: ISS 1-10 Grid Spacing: 25'

Temperature: 55° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	SH	0745	0810	6	JJJ	1	3	6	
2	SP	0745	0810	4		1	3	6	
3	AJ	0745	0810	8		1	3	6	
4	JM	0745	0810	2		1	3	6	
5	OP	0745	0810	5		1	3	6	
6	JW	0745	0810	6		1	3	6	
7	WF	0745	0810	5		1	3	6	
8	ER	0745	0810	9		1	3	6	
9	TC	0745	0810	11		1	3	6	
10	DA	0745	0810	9		1	3	6	
11	SH	0810	0835	17		2	3	2	
12	SP	0810	0835	10		2	3	2	
13	AJ	0810	0835	8		2	3	2	
14	JM	0810	0835	4		2	3	2	
15	OP	0810	0835	2		2	3	2	
16	JW	0810	0835	3		2	3	2	
17	WF	0810	0835	4		2	3	2	
18	ER	0810	0835	6		2	3	2	
19	TR	0810	0835	6		2	3	2	
20	DA	0810	0835	3		2	3	2	
21	SH	0835	0900	4		3	5	2	
22	SP	0835	0900	2		3	5	2	
23	AJ	0835	0900	5		3	5	2	
24	JM	0835	0900	2		3	5	2	
25	OP	0835	0900	2		3	5	2	
26	JW	0835	0900	7		3	5	2	
27	WF	0835	0900	4		3	5	2	
28	ER	0835	0900	3		3	5	2	
29	TR	0835	0900	2		3	5	2	
30	DA	0835	0900	5	V	3	5	2	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: S. Hershey, S. Pope, A. Torres, T. Manning, O. Peralta, J. Wesson, W. Ford, T. Klinesmith, E. Ramirez, D. Anderson

Cal. Gas Exp. Date: 1-19-25

Date: 3-4-20 Instrument Used: TSS 1-10 Grid Spacing: 25'

Temperature: 60° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
61	SH	1015	1040	4	335	4	4	J	
62	SP	1015	1040	2		4	4	J	
63	AT	1015	1040	3		4	4	J	
64	JW	1015	1040	2		4	4	J	
65	DP	1015	1040	2		4	4	J	
66	JW	1015	1040	5		4	4	J	
67	WF	1015	1040	3		4	4	J	
68	ER	1015	1040	2		4	4	J	
69	TK	1015	1040	4		4	4	J	
70	DA	1015	1040	2		4	4	J	
71	SH	1040	1105	2		4	6	J	
72	SP	1040	1105	3		4	6	J	
73	AT	1040	1105	5		4	6	J	
74	JW	1040	1105	2		4	6	J	
75	DP	1040	1105	2		4	6	J	
76	JW	1040	1105	3		4	6	J	
77	WF	1040	1105	3		4	6	J	
78	ER	1040	1105	4		4	6	J	
79	TK	1040	1105	6		4	6	J	
80	DA	1040	1105	3		4	6	J	
81	SH	1105	1130	8		4	6	J	
82	SP	1105	1130	7		4	6	J	
83	AT	1105	1130	4		4	6	J	
84	JW	1105	1130	2		4	6	J	
85	DP	1105	1130	5		4	6	J	
86	JW	1105	1130	5		4	6	J	
87	WF	1105	1130	5		4	6	J	
88	ER	1105	1130	7		4	6	J	
89	TK	1105	1130	3		4	6	J	
90	DA	1105	1130	6	✓	4	6	J	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: S. Hershey _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 3-4-20 Instrument Used: Active Trash 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	
97									Active Trash
98									↓
99									
100									
101									

Attach Calibration Sheet
Attach site map showing grid ID

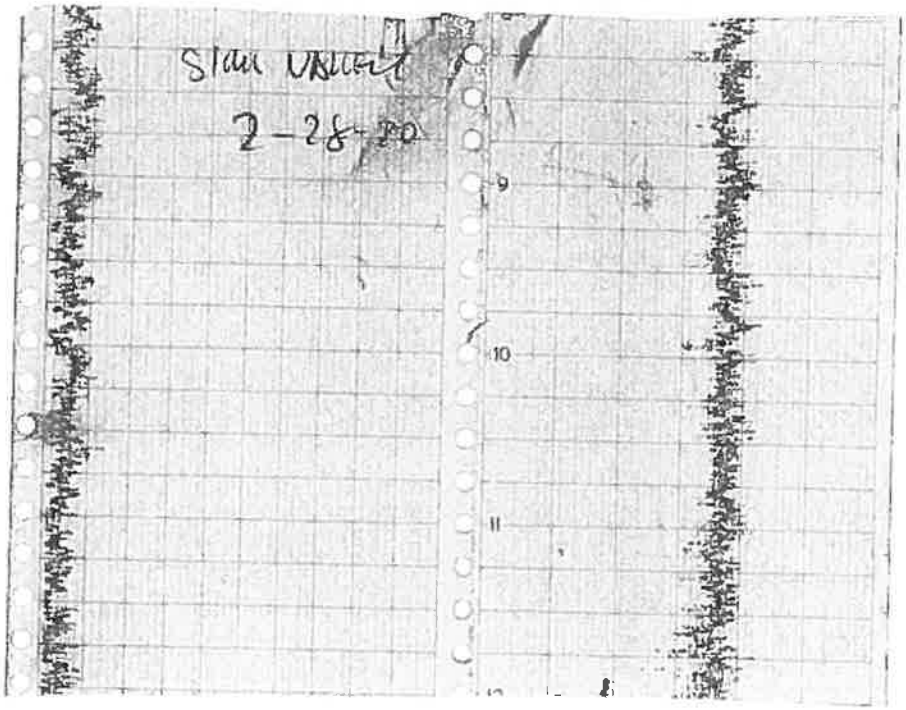
Attachment C

Component Leak Monitoring Event Records

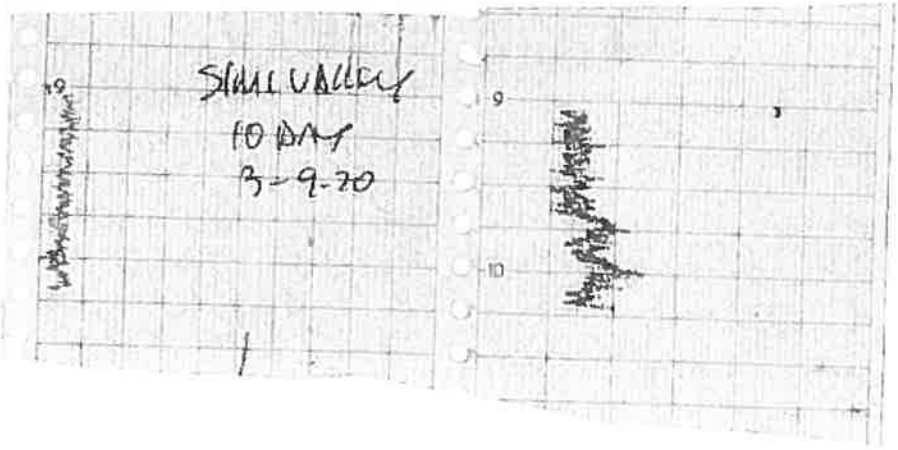
Attachment D

Weather Station Data

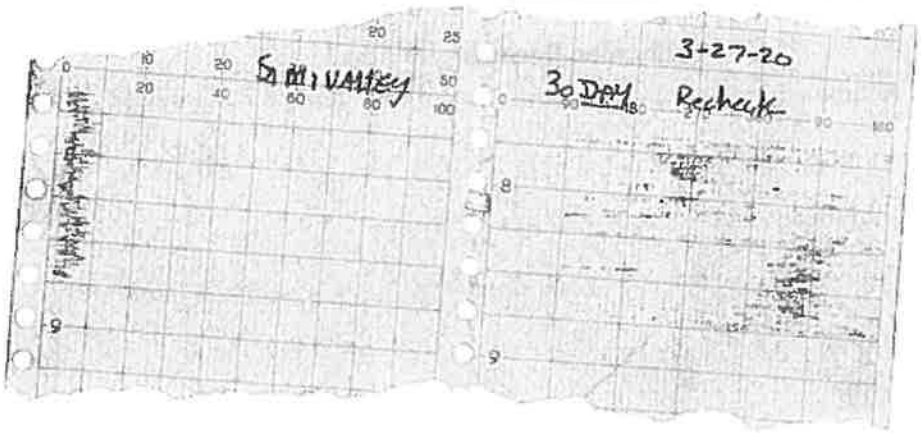
WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 1 SERIAL #: 16320832

MONITORING DATE: 2-28-20 TIME: 0800

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	5 ppm	2 ppm

Background Value = 1.5 ppm

INSTRUMENT RESPONSE TIME RECORD

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

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.63 ppm	502 ppm	500.37
#2	1.47 ppm	500 ppm	498.53
#3	2.36 ppm	501 ppm	498.64
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		1% #DIV/0! Must be less than 10%

Performed By: [signature] Date/Time: 2-28-20 / 0800

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 3 SERIAL #: 158455884

MONITORING DATE: 2-28-20 TIME: 0800

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	2 ppm	2 ppm

Background Value = 2 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	12
#2	500 ppm	450 ppm	8
#3	503 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.36 ppm	501 ppm	499.64
#2	1.19 ppm	500 ppm	498.81
#3	2.10 ppm	503 ppm	500.9
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 2-28-20 / 0800

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 2 SERIAL #: 7784545

MONITORING DATE: 2-28-20 TIME: 0800

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	2 ppm	2 ppm

Background Value = 2 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	10
#2	498 ppm	450 ppm	9
#3	501 ppm	450 ppm	11
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.34 ppm	503 ppm	501.66
#2	0.94 ppm	498 ppm	498.06
#3	1.11 ppm	501 ppm	498.88
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time 2-28-20/0800

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Simi Valley INSTRUMENT MAKE Thermo

MODEL: TVA 1000 EQUIPMENT #: 8 SERIAL #: 0532113801

MONITORING DATE: 2-28-20 TIME: 0800

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	2 ppm	3 ppm

Background Value = 1.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	502 ppm	450 ppm	8
#2	501 ppm	450 ppm	12
#3	503 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.50 ppm	502 ppm	500.50
#2	0.50 ppm	501 ppm	500.50
#3	0.75 ppm	503 ppm	502.25
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1 % #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 2-28-20

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT # 5 SERIAL #: 9468[illegible]

MONITORING DATE: 7-28-20 TIME 0800

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	2 ppm	2 ppm

Background Value = 2 **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	7
#2	501 ppm	450 ppm	13
#3	501 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.33 ppm	503 ppm	501-67
#2	2-51 ppm	501 ppm	498.44
#3	1.94 ppm	501 ppm	499.06
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time 7-28-20 / 0800

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 28 SERIAL # 1705.67

MONITORING DATE: 3-19-20 TIME: 0900

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	3 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	500 ppm	450 ppm	7
#2	500 ppm	450 ppm	7
#3	500 ppm	450 ppm	7
Calculate Response Time (1+2+3) / 3			7 #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 ppm	500 ppm	7
#2	0 ppm	500 ppm	7
#3	0 ppm	500 ppm	7
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1.4 % #DIV/0! Must be less than 10%

Performed By: Tamara Carbajal Date/Time: 3-19-20 / 0900

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 1 SERIAL #: 1632083232

MONITORING DATE: 3-27-20 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
3.7 ppm	4.4 ppm	3.8 ppm

Background Value = 3.0 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	503 ppm	450 ppm	9
#2	503 ppm	450 ppm	9
#3	503 ppm	450 ppm	8
Calculate Response Time (1+2+3) / 3			8.6 #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	0.87 ppm	503 ppm	3
#2	0.72 ppm	503 ppm	3
#3	0.75 ppm	503 ppm	3
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		1.6% #DIV/0! Must be less than 10%

Performed By: [signature] Date/Time: 3-27-20/0830

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #2

SERIAL NUMBER: 7784545

TECHNICIAN: [signature] DATE: 1-3-20

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	97	+/- 25
500	500	500	+/- 125
10000	10000	10,001	+/- 2500
< 1	ZERO GAS	0.79	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100	/	+/- 25
500	500	/	+/- 125
< 1	ZERO GAS	/	< 3

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 #4

SERIAL NUMBER: 16319830

TECHNICIAN: [signature] DATE: 1-3-20

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	10,016	+/- 2500
< 1	ZERO GAS	0.6K	< 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 #6

SERIAL NUMBER: 0720723

TECHNICIAN: [signature] DATE: 1-3-20

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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 9

SERIAL NUMBER: 0532113801

TECHNICIAN: [signature] DATE: 1-3-20

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	10,019	+/- 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 Unit # 32

SERIAL NUMBER: 092853842 3

TECHNICIAN: [signature] DATE: 1-3-20

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	10,000	+/- 2500
< 1	ZERO GAS	0.73	< 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 #36

SERIAL NUMBER: 033260319S

TECHNICIAN: [signature] DATE: 1-3-20

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	10,026	+/- 2500
< 1	ZERO GAS	0.56	< 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 #11

SERIAL NUMBER: 1036346774

TECHNICIAN: [signature] DATE: 1-3-20

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	10021	+/- 2500
< 1	ZERO GAS	0.56	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100	/	+/- 25
500	500	/	+/- 125
< 1	ZERO GAS	/	< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 13

SERIAL NUMBER: 1102746775

TECHNICIAN: [signature] DATE: 1-3-20

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	0.67	< 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 #15

SERIAL NUMBER: 1036346772

TECHNICIAN: [signature] DATE: 1-3-20

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	520	+/- 125
10000	10000	10000	+/- 2500
< 1	ZERO GAS	0.73	< 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.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM MM

Date: 3-7-20 **Time:** 0600

Model # TVA 1000 B

Serial # #1 16320832

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	1.7 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	1-3-20	Time required to attain 90% of Cal Gas ppm: 1. 9 / 2. 9 / 3. 9 / Average 9.0
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

465

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 3-7-20 **Time:** 0630

Model # TVA 1000 B

Serial # #3 1586588

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	1-3-20	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 9 / 3. 8
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 7.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH_4 gas.

Comments: _____

465

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM / TM

Date: 3-7-20 **Time:** 0700

Model # TVA 1000 B

Serial # #5 4919480

INSTRUMENT INTEGRITY CHECKLIST	
Battery test	(Pass) / Fail
Reading following ignition	2.3 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	1-3-20
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. 9

Average 7.0

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

Instrument calibrated to CH_4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 3-7-20 **Time:** 0730

Model # TVA 1000 B

Serial # #7 0720723627

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: 456
Date of last factory calibration	1-3-20	Time required to attain 90% of Cal Gas ppm: 1. 7 / 2. 7 / 3. 8
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 7.3
		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: MM MC

Date: 3-7-20 **Time:** 0800

Model # TVA 1000 B

Serial # #29 1031445324

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.1 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	1-3-20	Time required to attain 90% of Cal Gas ppm: 1. 7 2. 9 3. 9 Average 8.3
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

465

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM JM

Date: 3-7-20 **Time:** 0830

Model # TVA 1000B

Serial # #33 0000 41015

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	1-3-20	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 9 2. 4 3. 10 Average 9.3 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: JMM

Date: 3-7-20 **Time:** 0900

Model # TVA 1000B

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST	
Battery test	(Pass) / Fail
Reading following Ignition	1.8 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	1-3-20
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. 9
3. 9

Average 8.0

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: JM CM

Date: 3-7-20 **Time:** 0930

Model # TVA 1000B

Serial # #12 1036246741

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.7 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	1-3-20	Time required to attain 90% of Cal Gas ppm: 1. 8 2. 8 3. 8 Average 8.0
Factory calibration record w/instrument within 3 months	Pass / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 3-7-20 **Time:** 1000

Model # TVA 1000 B

Serial # #14 (0363467711

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	1-3-20	Time required to attain 90% of Cal Gas ppm: 1. 8 2. 8 3. 7
Factory calibration record w/Instrument within 3 months	(Pass) / Fail	Average: 7.6
		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: 3-7-20 **Time:** 1030

Model # TVA 1000 B

Serial # #16 1102746776

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	(Pass) / Fail	CALIBRATION CHECK		
Reading following ignition	2.1 ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	(Pass) / Fail / NA	500	500	100%
Clean system check (check valve chatter)	(Pass) / Fail / NA	RESPONSE TIME		
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	Calibration Gas, ppm	500	
Date of last factory calibration	1-3-20	90% of Calibration Gas, ppm	450	
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	6	
		2.	6	
		3.	6	
		Average	6.0	
		Equal to or less than 30 seconds?	(Y)	N
		Instrument calibrated to	CH4 gas.	

Comments: _____

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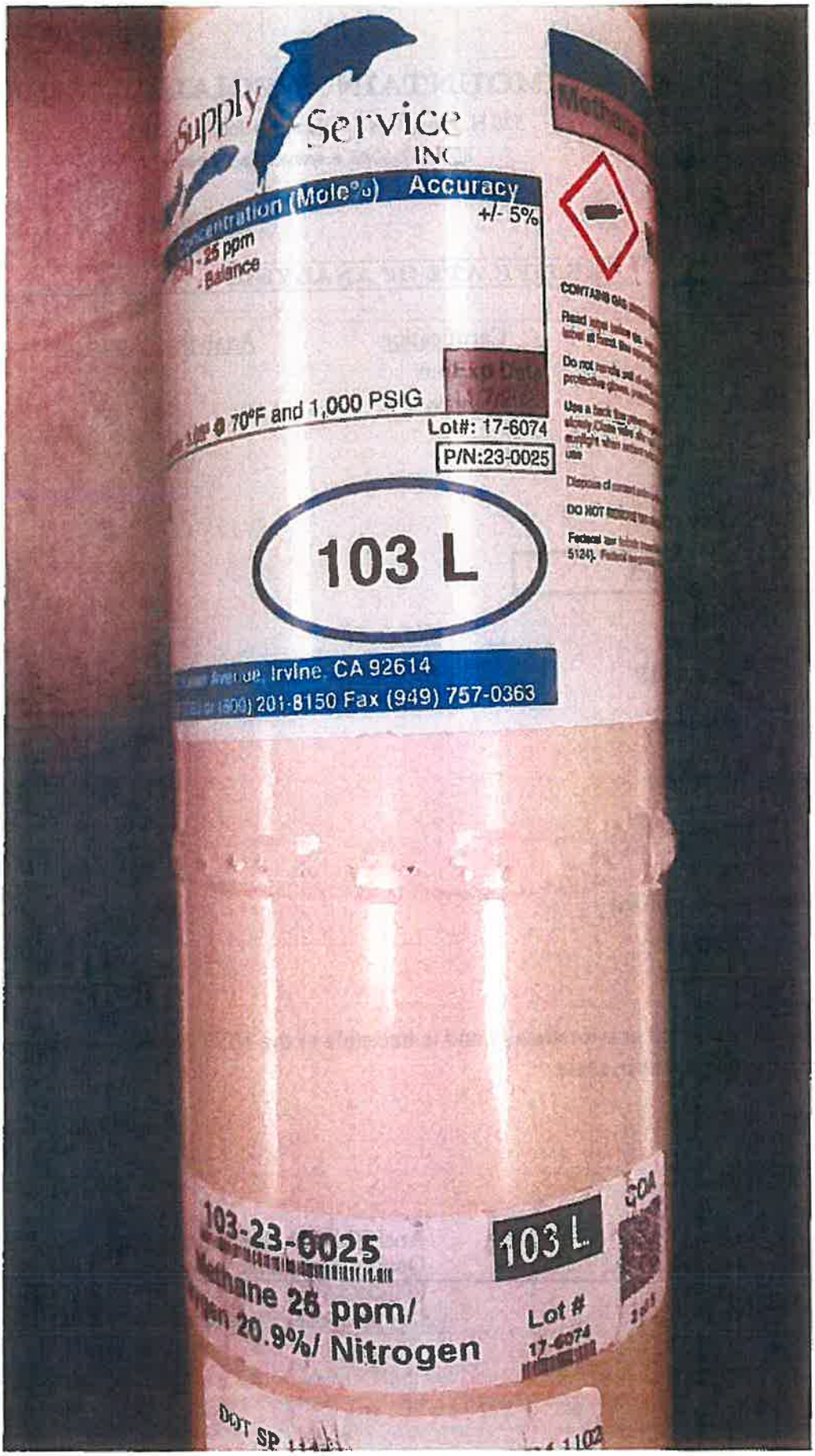
Concentration (Mole%) Accuracy
- 20.9% Oxygen
- Bal Nitrogen
Exp Date
@ 70°F and 1,000 PSIG
103 L
Avenue, Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0363
103 L
COA
Nitrogen
Zero)
Lot #
19-6779


Supply
Service
INC
Accuracy
+/- 5%
Balance
@ 70°F and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Irvine, CA 92614
(949) 201-8150 Fax (949) 757-0363
103-23-6025
103 L
Lot #
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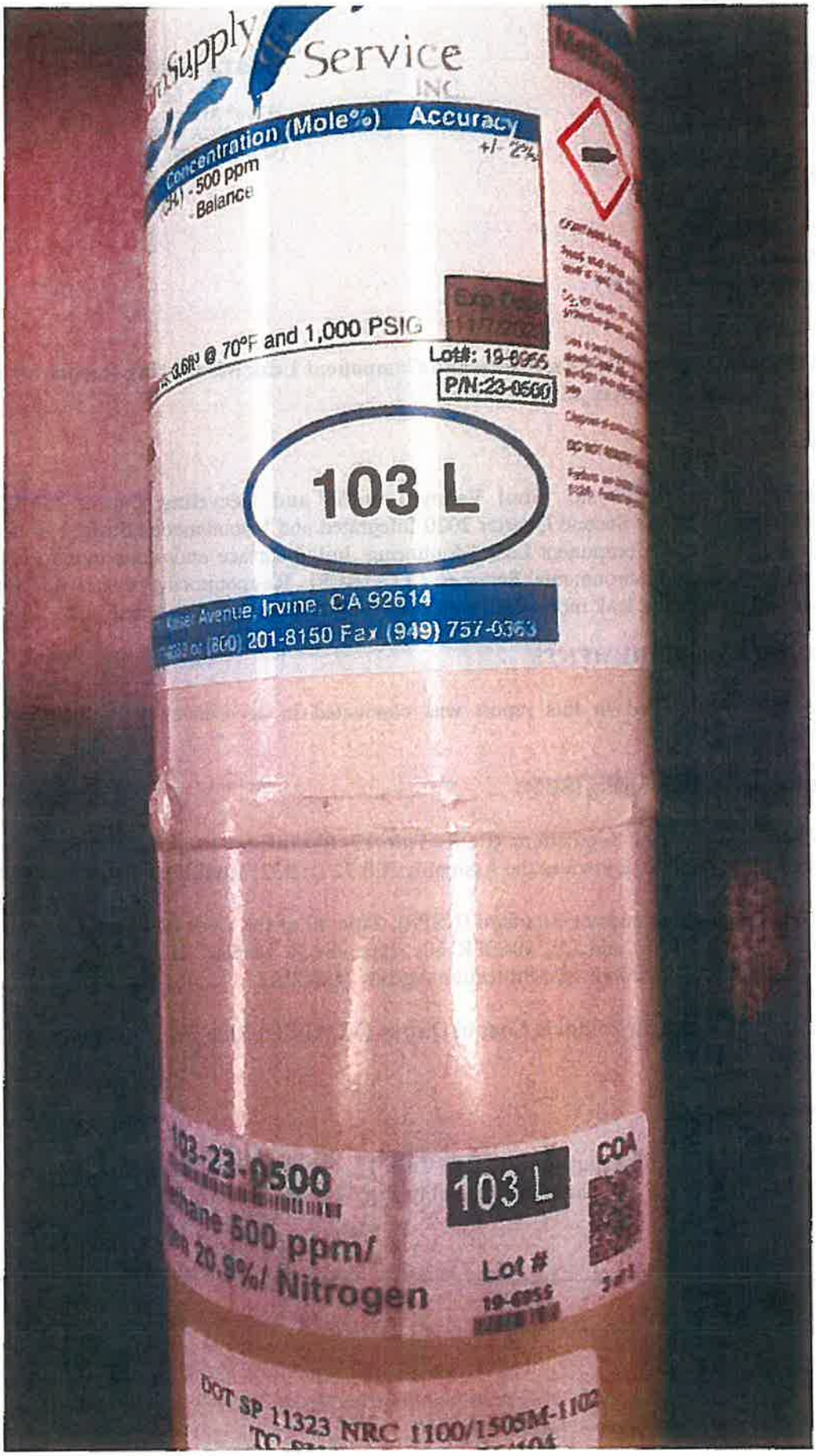

Service
INC
Concentration (Mole%)
Accuracy
+/- 2%
Balance
Lot#: 19-0055
P/N:23-0500
103 L
Irvine, CA 92614
(949) 757-0363
103-23-0500
103 L
COA
Lot #
19-0055
DOT SP 11323 NRC 1100/1505M-1102

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 ninety-six (96), (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), the entire perimeter of the landfill surface was monitored. During the event, special attention was given to monitoring unusual cover conditions (stressed vegetation, cracks, seeps, etc.) and any areas with unusual odors.

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was calibrated to 500 parts per million by volume (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), and VCAPCD Rule 74.1.7.

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.

- 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.

Initial Monitoring Event Exceedances of 25 ppmv

There were four (4) grids with an exceedance above 25 ppmv as methane detected during the initial monitoring events conducted on May 21 & 26, 2020.

Ten-Day Re-Monitoring Results

RES personnel performed the ten-day re-monitoring event on May 29, 2020. 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 May 21, 2020. There was one (1) leak detected above 500 ppmv during the initial monitoring event. Due to Covid-19 and delays related to procurement, parts availability, production, and delivery of parts necessary to remediate the exceedance, VCAPCD granted an extended timeline for repair. Therefore, a one hundred twenty-day re-monitoring event was performed on September 10, 2020; no exceedances were observed. See Attachment C for monitoring 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.

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

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, D. Anderson, A. Jones, E. Ramirez SR, E. Ramirez JR, J. Wesson, W. Ford

Cal. Gas Exp. Date: 1-19-23

Date: 5-21-20 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 70° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	SH	0800	0815	15	3	4	12	
2	DA	0800	0815	1000	3	4	12	Surface crack
3	AJ	0800	0815	1000	3	4	12	Surface crack
4	ER	0800	0815	6	3	4	12	
5	ER	0800	0815	500	3	4	12	Surface crack
6	JW	0800	0815	86.0	3	4	12	Surface crack 200 scfm
7	WF	0800	0815	12	3	4	12	
8	SH	0815	0830	990	2	3	12	SW unmarked well
9	DA	0815	0830	22	2	3	12	
10	AJ	0815	0830	16	2	3	12	
11	ER	0815	0830	8	2	3	12	
12	ER	0815	0830	10000	2	3	12	19425 well
13	JW	0815	0830	5	2	3	12	
14	WF	0815	0830	5	2	3	12	
15	SH	0830	0845	12	2	3	12	
16	DA	0830	0845	8	2	3	12	
17	AJ	0830	0845	6	2	3	12	
18	ER	0830	0845	12	2	3	12	
19	ER	0830	0845	5	2	3	12	
20	JW	0830	0845	5	2	3	12	
21	WF	0830	0845	6	2	3	12	
22	SH	0845	0900	4	2	4	12	
23	DA	0845	0900	2	2	4	12	
24	AJ	0845	0900	8	2	4	12	
25	ER	0845	0900	7	2	4	12	
26	ER	0845	0900	6	2	4	12	
27	JW	0845	0900	2000	2	4	12	SW unmarked well
28	WF	0845	0900	4	2	4	12	
29	SH	0900	0915	2000	3	5	12	14038
30	DA	0900	0915	3	3	5	12	

Attach Calibration Sheet

Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, E. Ramirez SR, W. Ford, D. Anderson, E. Ramirez, A. Jones, T. Wesson

Cal. Gas Exp. Date: 1-17-20

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

Temperature: 75 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
61	SR	1000	1015	6	4	6	3	
62	TW	1000	1015	2	4	6	3	
63	WF	1000	1015	4	4	6	3	
64	SH	1015	1030	3	4	6	4	
65	DA	1015	1030	8	4	6	4	
66	AT	1015	1030	4	4	6	4	
67	ER	1015	1030	2	4	6	4	
68	SR	1015	1030	5	4	6	4	
69	JW	1015	1030	5	4	6	4	
70	WF	1015	1030	3	4	6	4	
71	SH	1030	1045	2	4	7	4	
72	DA	1030	1045	5	4	7	4	
73	AT	1030	1045	6	4	7	4	
74	SR	1030	1045	2	4	7	4	
75	ER	1030	1045	6	4	7	4	
77	TW	1030	1045	6	4	7	4	
78	WF	1030	1045	3	4	7	4	
79	SH	1045	1100	7	4	7	4	
80	DA	1045	1100	5	4	7	4	
81	AT	1045	1100	2	4	7	4	
82	SR	1045	1100	4	4	7	4	
83	ER	1045	1100	3	4	7	4	
84	TW	1045	1100	2	4	7	4	
85	WF	1045	1100	4	4	7	4	
86	SH	1200	1215	2	4	8	4	
88	DA	1200	1215	2	4	8	4	
89	AT	1200	1215	5	4	8	4	
90	ER	1200	1215	3	4	8	4	
91	ER	1200	1215	4	4	8	4	
92	JW	1200	1215	4	4	8	4	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, D. Anderson, W. Ford, A. Jones, E. Ramirez, S. Pope, J. Wesson

Cal. Gas Exp. Date: 1-19-21

Date: 5-26-20 Instrument Used: TVA 1000 Grid Spacing: 85

Temperature: 75° Precip: 0 Upwind BG: 1 Downwind BG: 8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
97	SH	0945	1000	15	4	6	7	
98	AJ	0945	1000	8	4	6	7	
99	SP	0945	1000	4	4	6	7	
100	DA	0945	1000	4	4	6	7	
101	ER	0945	1000	16	4	6	7	
102	JW	0945	1000	269	4	6	7	
103	WF	0945	1000	1000	4	6	7	Surface
104	SH	1000	1015	38	4	8	7	
105	AJ	1000	1015	1200	4	8	7	Surface
106	SP	1000	1015	3000	4	8	7	Surface, unmarked well
107	DA	1000	1015	9999	4	8	7	Surface
108	ER	1000	1015	10000	4	8	7	Surface, unmarked well
87	JW	1000	1015	1000	4	8	7	
76	WF	1000	1015	3000	4	8	7	Surface
110	SH	1015	1030	94	4	8	7	
109	AJ	1015	1030	62	4	8	7	

Attach Calibration Sheet
Attach site map showing grid ID

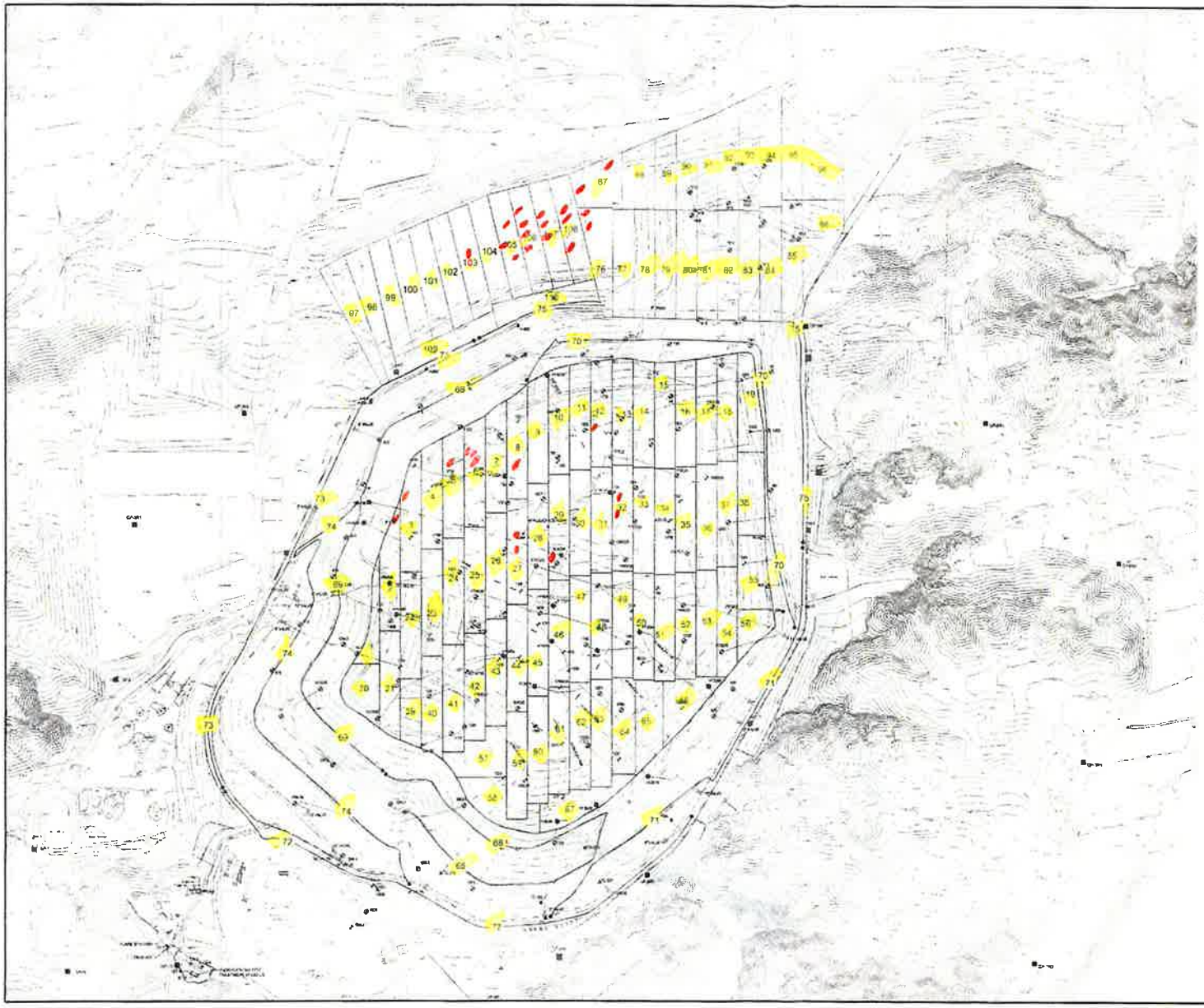
Yellow Flag (over 500 ppm) Landfill Surface Emissions Monitoring

10 Day Exceedances and Monitoring Log

Site: Simi Valley

	Initial Monitoring Event	First Re-Monitoring Event – 10 Days	Second Re-Monitoring Event – 10 Days
Quarter / Year:	2nd QTR	2nd QTR	2nd QTR
Technician:	Shawn Helsley	Jamair Anderson	Jamair Anderson
Instrument:	TVA 1000	TVA 1000	TVA 1000
Calibration Standard:	500PPM	500PPM	500 PPM

Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm
3	Y1	surface	1000	5-21-20	water dirt	5-24-20	84.26					
2	Y2	surface	600				44.32					
5	Y3	surface	500				60.11					
6	Y11	surface	860				141					
6	Y12	surface	980				158					
6	Y13	well 2055	912				101					
8	Y14	well [illegible]	990				210					
29	Y51	well 1515	2000				44.38					
27	Y52	well [illegible]	1000				114					
27	Y53	well [illegible]	2000				108					
12	Y21	well 19245	6000				235					
32	Y41	surface	900				200					
32	Y42	surface	905				308					
103	Y21	surface	1000	5-26-20			36.08					
108	Y4	surface	500			5-29-20	341					
87	Y5	surface	1000			6-5-20	54.66					
108	Y6	surface	500			5-29-20	119					
76	Y7	surface	600			6-5-20	106					
87	Y8	surface	500			5-29-20	192					
76	Y9	well GW30	3000			6-5-20		3500	Dirt work	6-15-20	46.32	
108	Y10	well [illegible]	4000			6-5-20	75.09					
107	Y15	surface	2000			6-5-20	70.70					


N
GRAPHIC SCALE
0
450
900
SCALE IN FEET
2nd QTR TVA 2020
Grids monitored
5000ppm+
SYMBOL LEGEND
ACTIVE WELLS
WELL WITH TEMPERATURE VARIANCE
SHALLOW WELL
HORIZONTAL COLLECTOR WELLHEAD
HORIZ WELL WITH TEMPERATURE VARIANCE
CONDENSATE SUMP
REMOTE WELLHEAD
MONITORING PROBE
VALVE
SAMPLE PORT
DECOMMISSIONED WELL
DECOMMISSIONED MONITORING PROBE
24" HEADER
18" HEADER
12" HEADER
8" LATERAL
6" LATERAL
4" LATERAL
HORIZONTAL COLLECTOR - SOLID
HORIZONTAL COLLECTOR - PERFORATED
C — C
BELOW GRADE CONDENSATE FORCEMAIN
A — A
COMPRESSED AIR LINE
NOTES:
1 AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING, DATED 2-6-19
2 EXISTING GCCS AS BUILTS DATED 5-21-19
3 BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-JTD BOUNDARIES WITH 3-5 SUBPHASES"
NO
REVISION
DATE
SHEET TITLE:
SIMI VALLEY LANDFILL SEM MAP
PROJECT TITLE:
SIMI VALLEY LANDFILL AND RECYCLING CENTER
2801 MADERA ROAD
SIMI VALLEY, CALIFORNIA 93065
CLIENT:
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
DATE
5-21-2019
SCALE
1"=450'
DRAWING NO
1 of 1

Attachment B

Integrated Surface Emission Monitoring Event Records

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: J. Adur... | A. Hernandez | C. Brown...
S. Bychel | R. Gearmetz | R. Ramirez
A. Lopez | N. Burk | Cal. Gas Exp. Date: 1-18-23

Date: 5-21-20 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 71 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
31	CB	0845	0910	7	333	3	6	8	
32	NB	0845	0910	8		3	6	8	
33	JA	0910	0935	9		4	6	9	
34	SB	0910	0935	6		4	6	9	
35	AH	0910	0935	4		4	6	9	
36	AL	0910	0935	6		4	6	9	
37	RR	0910	0935	1		4	6	9	
38	RG	0910	0935	4		4	6	9	
39	CB	0910	0935	5		4	6	9	
40	NB	0910	0935	8		4	6	9	
41	JA	0935	1000	7		4	7	8	
42	SB	0935	1000	7		4	7	8	
43	AH	0935	1000	6		4	7	8	
44	AL	0935	1000	2		4	7	8	
45	RR	0935	1000	2		4	7	8	
46	RG	0935	1000	4		4	7	8	
47	CB	0935	1000	5		4	7	8	
48	NB	0935	1000	7		4	7	8	
49	JA	1000	1025	4		4	8	9	
50	SB	1000	1025	2		4	8	9	
51	AH	1000	1025	4		4	8	9	
52	AL	1000	1025	2		4	8	9	
53	RR	1000	1025	1		4	9	9	
54	RG	1000	1025	6		4	9	9	
55	CB	1000	1025	5		4	8	9	
56	NB	1000	1025	5		4	8	9	
57	JA	1025	1050	6		4	6	10	
58	SB	1025	1050	1		4	6	10	
59	AH	1025	1050	2		4	6	10	
60	AL	1025	1050	4		4	6	10	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: J. Anderson SR — A. Lopez — J. Weller — C. Bennett
S. Becker JR. — R. Crozier — D. Anderson — N. Beck
A. Hernandez — W. Ford — R. Ramirez — A. Torres — Cal. Gas Exp. Date: 1-18-23

Date: 5-21-20 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 71 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
93	DA	1250	1315	4	333	4	12	9	
94	AT	1250	1315	4	↓	4	12	9	
95	JW	1250	1315	5	↓	4	12	9	
96	WF	1250	1315	6	↓	4	12	9	

Attach Calibration Sheet
Attach site map showing grid ID

Integrated Surface Sampling
10 Day Exceedances and Monitoring Log

Site: Simi Valley

Page | of | Pages

Quarter / Year:	2nd QTR 2020	2nd Q.R 2020
Technician:	Shawn Hensley	JAMES Sadler
Instrument:	TVA1000	TVA1000
Calibration Standard:	25ppm.	25 PPM

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
106	30	5-21-20	WATER & DIRT	5-29-20	20					
107	27	↓	↓	↓	22					
108	35	↓	↓	↓	19					
87	31	↓	↓	↓	21					

Attachment C

Component Leak Monitoring Event Records

Waste Management Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs

Quarter: 2nd QRT

Initial Monitoring Performed By: Shawn Hershey

Follow-up Monitoring Performed By: Michael ORue

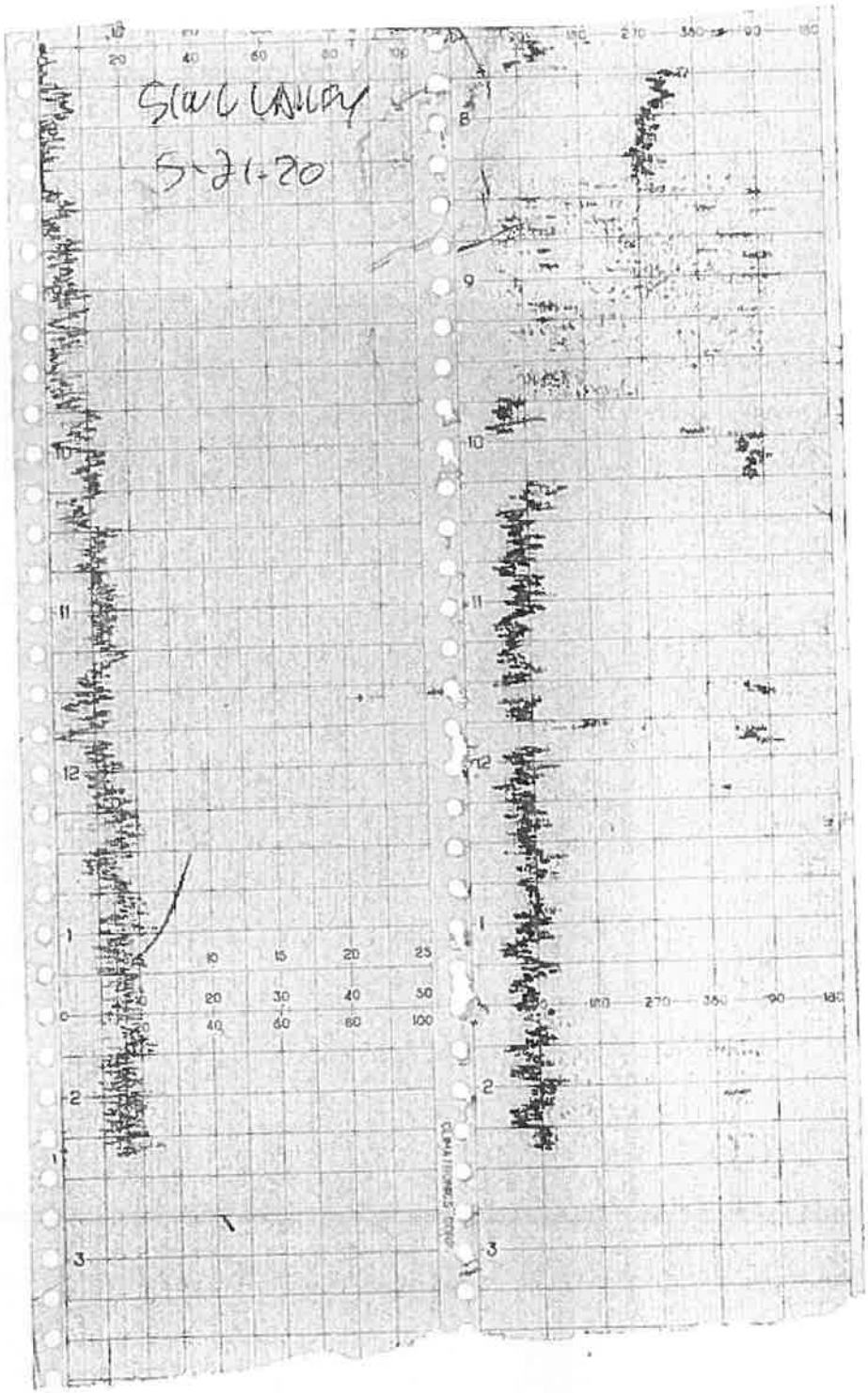
Landfill Name: Simi Valley

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	
—	—	5-21-20	1,000			9-10-20	6.3					Blower 103

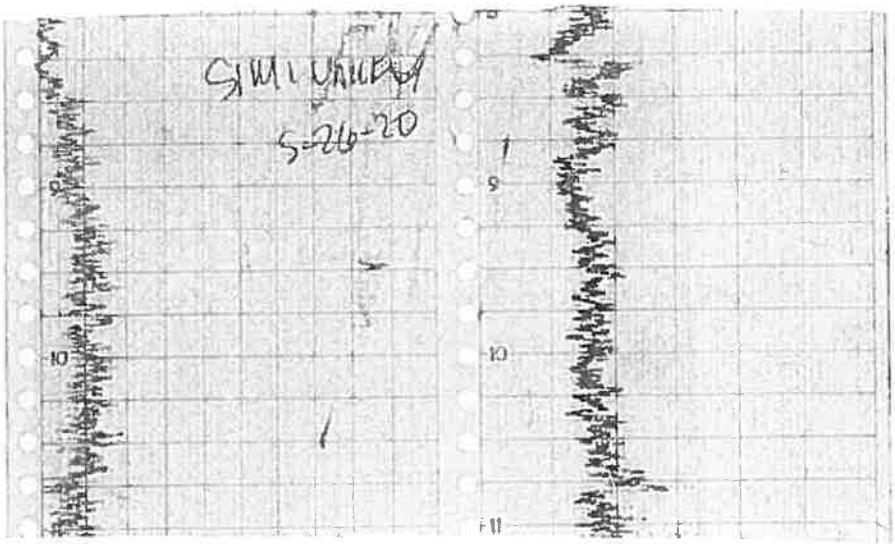
Attachment D

Weather Station Data

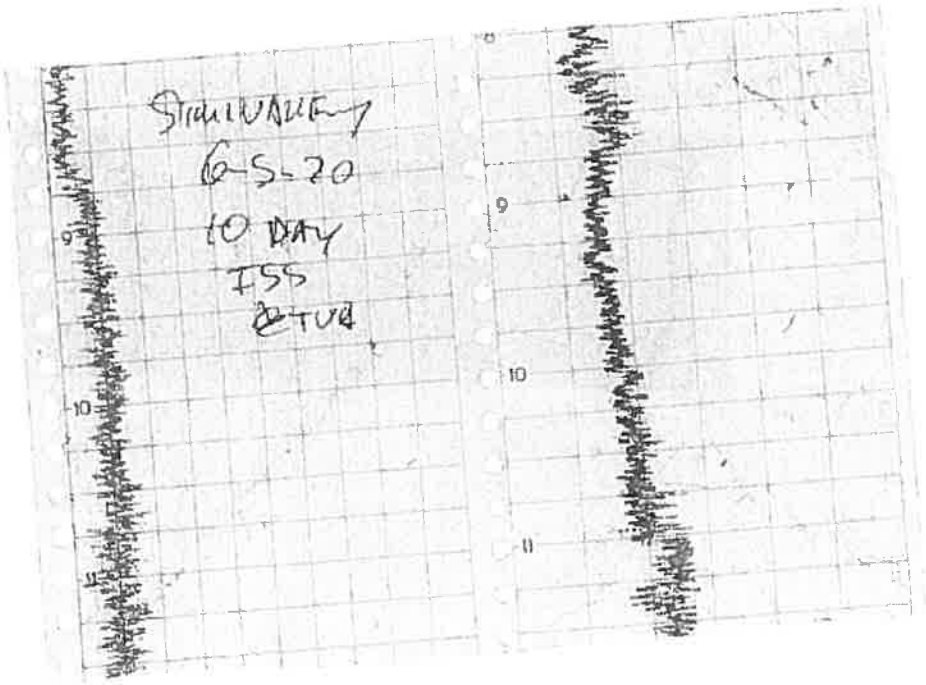
WIND SPEED & DIRECTION CHART ROLL



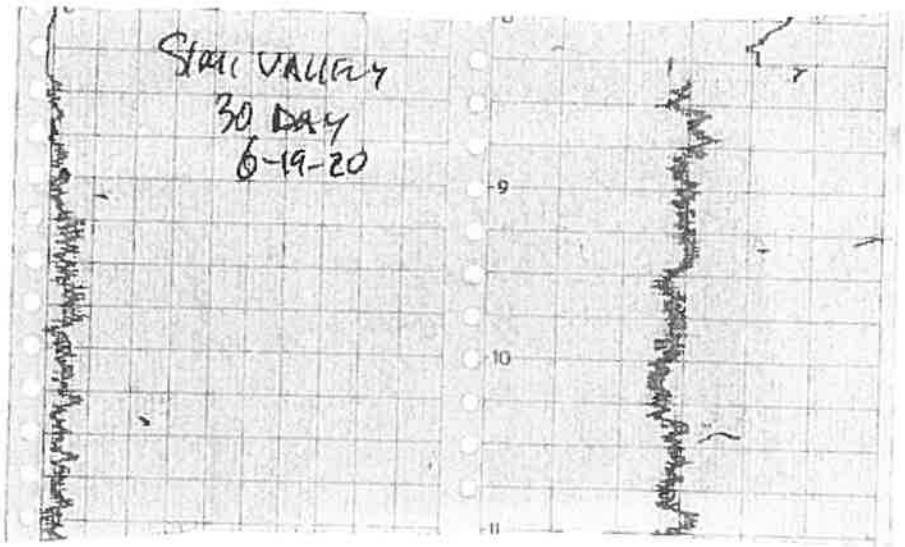
WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



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 #: 16320872

MONITORING DATE: 5-21-20 TIME: 0750

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	2 ppm	3 ppm

Background Value = 1.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	502 ppm	450 ppm	7
#2	500 ppm	450 ppm	13
#3	502 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.50 ppm	502 ppm	500.50
#2	2.50 ppm	500 ppm	497.50
#3	.50 ppm	502 ppm	501.50
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 5-21-20

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 3 SERIAL #: 1586584

MONITORING DATE: 5-21-20 TIME: 0750

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	1 ppm	1 ppm

Background Value = 1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	500 ppm	450 ppm	9
#2	503 ppm	450 ppm	11
#3	501 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	2.40 ppm	500 ppm	497.60
#2	1.50 ppm	503 ppm	501.50
#3	.40 ppm	501 ppm	500.60
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 5-21-20

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simivalley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 5 SERIAL #: 0419480

MONITORING DATE: 5-21-20 TIME: 0750

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	2 ppm	3 ppm

Background Value = 1.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	502 ppm	450 ppm	10
#2	500 ppm	450 ppm	11
#3	499 ppm	450 ppm	9
Calculate Response Time (1+2+3)/3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.50 ppm	502 ppm	501.50
#2	1.00 ppm	500 ppm	499.00
#3	0.25 ppm	499 ppm	498.75
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 5-21-20

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 9 SERIAL #: 05 3211 3801

MONITORING DATE: 5-21-20 TIME: 0750

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 520 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	2 ppm	2 ppm

Background Value = 1.0 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	501 ppm	450 ppm	8
#2	501 ppm	450 ppm	17
#3	503 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.50 ppm	501 ppm	499.70
#2	1.0 ppm	501 ppm	500.00
#3	2.0 ppm	503 ppm	500.00
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		1 % #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 5-21-20

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 6 SERIAL #: 0720723626

MONITORING DATE: 5-26-20 TIME: 0940

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	2 ppm	3 ppm

Background Value = 1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	500 ppm	450 ppm	10
#2	501 ppm	450 ppm	10
#3	499 ppm	450 ppm	10
Calculate Response Time (1+2+3)/3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.50 ppm	500 ppm	498.70
#2	1.10 ppm	501 ppm	560.90
#3	1.40 ppm	499 ppm	497.60
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1 % #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 5-26-20

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 4 SERIAL #: 1631F830

MONITORING DATE: 5-26-20 TIME: 0940

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 ppm	2 ppm	1 ppm

Background Value = 1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	502 ppm	450 ppm	8
#2	503 ppm	450 ppm	12
#3	500 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.50 ppm	502 ppm	500-50
#2	2.60 ppm	503 ppm	499.40
#3	1.30 ppm	500 ppm	
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1 % #DIV/0! Must be less than 10%

Performed By: Shawn Hershberg Date/Time: 5-26-20

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 2 SERIAL #: 7784545

MONITORING DATE: 5-26-20 TIME: 0940

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	2 ppm	3 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	502 ppm	450 ppm	12
#2	502 ppm	450 ppm	8
#3	501 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.50 ppm	502 ppm	500.50
#2	1.25 ppm	502 ppm	500.75
#3	1.25 ppm	502 ppm	500.75
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1 % #DIV/0! Must be less than 10%

Performed By: Shawn Hensley Date/Time: 5-26-20/

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: #2 SERIAL #: 7784545

MONITORING DATE: 5-24-20 TIME: 0650

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	3 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	500 ppm	450 ppm	7
#2	500 ppm	450 ppm	9
#3	500 ppm	450 ppm	7
Calculate Response Time (1+2+3) / 3			7 #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 ppm	500 ppm	7
#2	0 ppm	500 ppm	7
#3	0 ppm	500 ppm	7
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1.40 % #DIV/0! Must be less than 10%

Performed By: _____ Date/Time: 5-24-20

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: SIMI VALLEY INSTRUMENT MAKE: THERMO

MODEL: TVA 1000 B EQUIPMENT #: TVA #2 SERIAL #: 7781545

MONITORING DATE: 6-5-20 TIME: 0945

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25.3 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
2.1 ppm	3.0 ppm	2.5 ppm

Background Value = 2.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	25.3 ppm	22.5 ppm	6
#2	24.0 ppm	22.5 ppm	6
#3	25.0 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 = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.76 ppm	25.3 ppm	.3
#2	0.68 ppm	24.0 ppm	1
#3	0.49 ppm	25.0 ppm	1
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			0.15 #DIV/0! Must be less than 10%

Performed By: ANTHONY PERALTA Date/Time: 6-5-20 0945

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: #1 SERIAL #: 16320832

MONITORING DATE: 6-19-20 TIME: 0815

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	3 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	500 ppm	450 ppm	7
#2	500 ppm	450 ppm	7
#3	500 ppm	450 ppm	7
Calculate Response Time (1+2+3) / 3			7 #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 ppm	500 ppm	7
#2	0 ppm	500 ppm	7
#3	0 ppm	500 ppm	7
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1.4096 #DIV/0! Must be less than 10%

Performed By: _____ Date/Time: 6-19-20 / 0815

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 28 SERIAL #: 7705062

MONITORING DATE: 6-15-20 TIME: 0715

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
2.1 ppm	3.0 ppm	2.5 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	500 ppm	450 ppm	7
#2	500 ppm	450 ppm	6
#3	500 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	0.76 ppm	500 ppm	0
#2	0.68 ppm	500 ppm	1
#3	0.49 ppm	500 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: Jamaine Andrew Date/Time: 6-15-20 / 0715

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES UNIT #1

SERIAL NUMBER: 1632083Z

TECHNICIAN: [signature] DATE: 4-3-20

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	0,81	< 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: [signature] DATE: 4-3-20

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	0.49	< 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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #5

SERIAL NUMBER: 4919480

TECHNICIAN: MM DATE: 4-3-20

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	10,000	+/- 2500
< 1	ZERO GAS	0.62	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100	/	+/- 25
500	500	/	+/- 125
< 1	ZERO GAS	/	< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #7

SERIAL NUMBER: 0720723627

TECHNICIAN: [signature] DATE: 4-3-20

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	501	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.68	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES UNIT # 36

SERIAL NUMBER: 0332603195

TECHNICIAN: [signature] DATE: 4-3-20

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	10,000	+/- 2500
< 1	ZERO GAS	0,48	< 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 # 32

SERIAL NUMBER: 0928S38423

TECHNICIAN: [signature] DATE: 4-3-26

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	10,126	+/- 2500
< 1	ZERO GAS		< 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 #10

SERIAL NUMBER: 1036346773

TECHNICIAN: [signature] DATE: 4-3-20

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	0.59	< 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 Unit #12

SERIAL NUMBER: 1036246741

TECHNICIAN: [signature] DATE: 4-3-20

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	0.76	< 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 #14

SERIAL NUMBER: 1036346771

TECHNICIAN: [signature] DATE: 4-3-20

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	0.78	< 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 #16

SERIAL NUMBER: 1102746706

TECHNICIAN: MM DATE: 4-3-20

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	10,109	+/- 2500
< 1	ZERO GAS	0.76	< 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: _____

Date: 5-3-20 **Time:** 0645

Model # TVA 1000 B

Serial # #2 778545

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.0 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-20	Time required to attain 90% of Cal Gas ppm: 1. 7 / 2. 8 / 3. 8
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 7.6
		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: 5-3-20 **Time:** 0715

Model # TVA 1000 B

Serial # #4 163198 30

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	1.6 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-20	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 5 / 3. 7 / Average 6.0
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

465

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 5-3-20 **Time:** 0745

Model # YW1000B

Serial # #6 0720723626

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.0 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-20	Time required to attain 90% of Cal Gas ppm: 1. 7 / 2. 6 / 3. 5
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: _____

P.O. Box 748 • Colton, California 92324 •
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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 5-3-20 **Time:** 0815

Model # TVA 1000B

Serial # #9 0532112801

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.6 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-20	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. 7 / Average 6.3
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH_4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 5-3-20 **Time:** 0845

Model # TLD 1000 B

Serial # # 29 1031445324

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.6 ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-20	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: JM / MM

Date: 5-3-20 **Time:** 0915

Model # TVA 1000 B

Serial # #33 0000410115

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.0 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-20	Time required to attain 90% of Cal Gas ppm: 1. 6; 2. 6; 3. 7; Average 6.3
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: [signature]

Date: 5-3-20 **Time:** 0945

Model # TCM 100003

Serial # #11 103636774

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	4-3-20	Time required to attain 90% of Cal Gas ppm: 1. 7; 2. 7; 3. 6; Average 6.6
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH_4 gas.

Comments: _____

465

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM

Date: 5-3-20 **Time:** 1015

Model # TVA 1000 B

Serial # #13 1102796775

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	1A ppm	Calibration Gas (ppm): 500 — Actual (ppm): 500 — % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-3-20	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: [illegible]

Date: 5-3-20 **Time:** 1045

Model # TVA 1000B

Serial # #15 1036346772

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.6 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	4-7-20	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. 7 / Average 6.3
Factory calibration record w/Instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

465

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INTERMOUNTAIN SPECIALTY GASES

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800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

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

Lot # 19-6779

Mfg. Date: 4/3/2019
Parent Cylinder ID Number: 001739, 02268

Method of Preparation:
Gravimetric/Pressure Transfilled

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

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 4/3/2019

INTERMOUNTAIN SPECIALTY GASES

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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

INTERMOUNTAIN SPECIALTY GASES

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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

Startup, Shutdown, and Malfunction (SSM) Plan
Semi-Annual Report
(January through June 2020)

Simi Valley Landfill and Recycling Center
Simi Valley, California

For Submittal to:

Ventura County Air Pollution Control District
669 County Square Drive
Ventura, California 93003
(805) 645-1400

Presented by:

Simi Valley Landfill and Recycling Center
2801 Madera Road
Simi Valley, California 93065

August 2020

This semi-annual startup, shutdown, and malfunction (SSM) plan report was prepared in order to comply with the requirements set forth in Simi Valley Landfill and Recycling Center's (SVLRC's) SSM plan and in accordance with 40 Code of Federal Regulations (CFR) 63.6(d)(5)(i) requirements. Unless otherwise noted in this report, all actions taken during the reporting period were consistent with the SVLRC's SSM Plan. This report contains information regarding the number, duration, and description of each SSM event. A copy of the SSM Plan and all revisions/addenda are kept on file at the facility for at least five (5) years and are available to appropriate regulatory agency personnel for inspection.

Report Preparer:

Name & Title: Collin Pavelchik, EP Air Quality Specialist

Signature: Collin Pavelchik Date: 8/14/20

I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION PROVIDED IN THIS REPORT IS COMPLETE AND ACCURATE.

Landfill Responsible Official:

Name & Title: Scott Tignac, District Manager

Signature: Date: 08-14-2020

Table of Contents

Appendices

1.0 INTRODUCTION

Simi Valley Landfill and Recycling Center (SVLRC) is subject to 40 Code of Federal Regulation (CFR) Part 63, Subpart AAAA, the National Emission Standard for Hazardous Air Pollutants (NESHAPs) for Municipal Solid Waste Landfills. In accordance with NESHAPs requirements, a startup, shutdown, and malfunction (SSM) plan (SSM Plan) was prepared for SVLRC. This SSM Plan documents the procedures for operating and maintaining the affected elements of the landfill gas (LFG) collection and control system (GCCS) during startup, shutdown, and malfunction.

In addition to the requirement to prepare an SSM Plan, 40 CFR §63.10(d)(5)(i) contains provisions requiring periodic SSM Reports. At a minimum, these reports must be prepared on a semi-annual basis and must be delivered or postmarked by the 30th day following the end of the calendar reporting period (or other period specified by the regulatory agency or permit). This SSM Report covers the period between January 1, 2020 and June 30, 2020. Per confirmation with Ventura County Air Pollution Control District, this SSM Report may be submitted with the semi-annual Title V and New Source Performance Standards (NSPS) Report to allow synchronization of submittal dates.

This SSM Report has been organized into four sections: two for startup, shutdown, and malfunction reporting, one for SSM Plan departure forms, and one for SSM Plan revisions.

2.0 STARTUP/SHUTDOWN REPORTING REQUIREMENTS

During the reporting period, all startups and shutdowns were consistent with the provisions set forth in SVLRC's SSM Plan. The SSM Plan contains startup and shutdown report spreadsheets/forms that are filled out under certain conditions even when the startup and shutdown provisions are in accordance with the SSM Plan. Startup and shutdowns are generally "planned" events associated with system repair, maintenance, testing and upgrade, and are generally not related to a malfunction of the GCCS. In each case, the SSM Plan was successfully implemented for the flares, the wells, the various GCCS components, and the landfill gas-to-energy (LFGTE) facility. SSM reporting forms/spreadsheets are kept on site and are available for review upon request. Generally speaking, each startup followed a previous shutdown.

The startup and shutdown report spreadsheets from this reporting period are included in **Appendix A** (flare, wells, flare system devices) of this SSM Report, including specific information regarding each event. All forms have been updated to a printable electronic format to improve ease of completion and accuracy, and still contain all necessary regulatory information.

Planned shutdowns/startups of **Flare System #3** occurred on the following dates:

Startup/Shutdown Event		**Duration (Hours)**	**Cause/Reason for Startup/Shutdown**
Start	**End**		
There were twenty-seven (**27**) flare system #3 startups/shutdowns during the reporting period. Please see Appendix A for the startup/shutdown log.			

Planned shutdowns/startups of **Flare System #4** occurred on the following dates:

Startup/Shutdown Event		**Duration (Hours)**	**Cause/Reason for Startup/Shutdown**
Start	**End**		
There were fourteen (**14**) flare system #4 startups/shutdowns during the reporting period. Please see Appendix A for the startup/shutdown log.			

Planned shutdowns/startups of the **GCCS Wells** occurred on the following dates:

Date of Shutdown Event	**Date of Startup Event**	**Downtime Duration (Hours)**	**Well ID**	**Cause/Reason for Startup/Shutdown**
There were seventy-three (**73**) well startup/shutdowns during the reporting period. Please see Appendix A of the startup/shutdown log.				

Planned Startups/Shutdowns of the **flare system monitoring/control/recording devices** occurred on the following dates:

Event Date		**Duration of Downtime (Hours and Minutes)**	**Cause/Reason For Startup/Shutdown**
Start	**End**		
There were no flare system monitoring/control/recording devices startup/shutdowns during this reporting period.			

3.0 MALFUNCTION REPORTING REQUIREMENTS

During the reporting period, all malfunctions were consistent with the provisions set forth in SVLRC's SSM Plan. The SSM Plan contains malfunction report spreadsheets/forms that are filled out under certain conditions even when the actions taken during the malfunction are in accordance with the SSM Plan. In each case, the SSM Plan was successfully implemented. SSM reporting spreadsheets/forms are kept on site and are available for review upon request.

The events were resolved by shutdown and startup procedures. The malfunction report spreadsheets from this reporting period are included in **Appendix A** (flare, wells, flare system devices) of this SSM Report, including specific information regarding each event. All forms have been updated to a printable electronic format to improve ease of completion and accuracy, and still contain all necessary regulatory information.

Malfunctions of the **Flare System #3** occurred on the following dates:

Malfunction Event		**Duration (Hours)**	**Reason for Malfunction**
Start	**End**		
There were seventeen (**17**) flare system #3 malfunctions during the reporting period. Please see Appendix A for the startup/shutdown log.			

Malfunctions of the **Flare System #4** occurred on the following dates:

Malfunction Event		**Duration (Hours)**	**Reason for Malfunction**
Start	**End**		
There were six (**6**) flare system #4 malfunctions during the reporting period. Please see Appendix A for the startup/shutdown log.			

Malfunctions of the **GCCS wells** occurred on the following dates:

Malfunction Event Date		**Duration of Downtime (Hours and Minutes)**	**Cause/Reason for Malfunction**
Start	**End**		
There were no LFG GCCS well malfunctions during this monitoring period.			

Malfunctions of the **flare system monitoring/control/recording devices** occurred on the following dates:

Event Date		Duration of Downtime (Hours and Minutes)	Reason for Malfunction
Start	**End**		
There were no flare system monitoring/control/recording device malfunctions during this monitoring period.			

4.0 STARTUP, SHUTDOWN, AND MALFUNCTION PLAN REVISIONS

No revisions were made to the SSM Plan during this reporting period. As previously mentioned a copy of the SSM Plan and all revisions/addenda are kept on file at the facility for at least five (5) years and are available to appropriate regulatory agency personnel for inspection.

Per 40 CFR §63.6(e)(3)(viii) requirements, if SVLRC's SSM Plan fails to address or inadequately addresses an event that meets the definition of a startup, shutdown, or malfunction, the SSM Plan shall be revised within 45 days after the event to include procedures for operating and maintaining the appropriate equipment during a similar malfunction event and the revised SSM Plan will be included in this semi-annual report. Additionally, if any revisions are made to the SSM Plan that alter the scope of SSM activities at SVLRC or otherwise modify the applicability of any emission limit, work practice requirement, or other requirement in 40 CFR §63, the revised SSM Plan is not effective until written notice is provided to the permitting authority describing the SSM Plan revision. In these cases, a copy of the written notification will be included in this semi-annual report along with a copy of the revised SSM Plan.

There were no events occurred during the reporting period that were not adequately addressed by the SSM Plan. In each case, the SSM Plan was successfully implemented. As such, no departure forms are contained within Appendix B. In addition, the SSM Plan was not revised, or required to be revised during the reporting period, so no information is provided in Appendix C.

APPENDIX A

FLARE & WELL
STARTUP/SHUTDOWN &
MALFUNCTION REPORT SPREADSHEETS

SIMI VALLEY LANDFILL
FLARE NO. 3 DOWNTIME LOG
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
1	x Shutdown Event x Startup Event x Malfunction Event	Flare	1/7/20 16:13 1/7/20 20:01	1/7/20 16:15 1/7/20 20:05	0.03 0.07	3.80	Power Outage	Nick T., Dustin C. & Collin P
2	x Shutdown Event x Startup Event Malfunction Event	Flare	1/17/20 8:31 1/17/20 11:31	1/17/20 8:33 1/17/20 11:35	0.03 0.07	3.00	Flare Clean	Nick T., Dustin C. & Collin P
3	x Shutdown Event x Startup Event x Malfunction Event	Flare	1/18/20 14:51 1/18/20 16:49	1/18/20 14:53 1/18/20 16:53	0.03 0.07	1.97	Compressor failure	Nick T., Dustin C. & Collin P
4	x Shutdown Event x Startup Event Malfunction Event	Flare	1/20/20 9:03 1/20/20 9:47	1/20/20 9:05 1/20/20 9:51	0.03 0.07	0.73	Compressor Repair	Nick T., Dustin C. & Collin P
5	x Shutdown Event x Startup Event x Malfunction Event	Flare	1/25/20 11:37 1/25/20 12:31	1/25/20 11:39 1/25/20 12:35	0.03 0.07	0.90	VFD Faliure	Nick T., Dustin C. & Collin P
6	x Shutdown Event x Startup Event Malfunction Event	Flare	1/27/20 9:27 1/27/20 14:26	1/27/20 9:29 1/27/20 14:30	0.03 0.07	4.98	Flare Cleaning	Nick T., Dustin C. & Collin P
7	x Shutdown Event x Startup Event Malfunction Event	Flare	2/3/20 7:26 2/3/20 15:03	2/3/20 7:28 2/3/20 15:07	0.03 0.07	7.62	24" header Tie-in	Nick T., Dustin C. & Collin P
8	x Shutdown Event x Startup Event x Malfunction Event	Flare	2/8/20 17:11 2/8/20 18:02	2/8/20 17:13 2/8/20 18:06	0.03 0.07	0.85	VFD Overload	Nick T., Dustin C. & Collin P
9	x Shutdown Event x Startup Event Malfunction Event	Flare	2/10/20 3:12 2/10/20 5:46	2/10/20 3:14 2/10/20 5:50	0.03 0.07	2.57	Flare Cleaning	Nick T., Dustin C. & Collin P

SIMI VALLEY LANDFILL
FLARE NO. 3 DOWNTIME LOG
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
10	x Shutdown Event x Startup Event x Malfunction Event	Flare	2/11/20 8:15 2/11/20 10:25	2/11/20 8:17 2/11/20 10:29	0.03 0.07	2.17	VFD Overload	Nick T., Dustin C. & Collin P
11	x Shutdown Event x Startup Event x Malfunction Event	Flare	2/14/20 17:56 2/14/20 18:54	2/14/20 17:58 2/14/20 18:58	0.03 0.07	0.97	VFD Overload	Nick T., Dustin C. & Collin P
12	x Shutdown Event x Startup Event x Malfunction Event	Flare	2/17/20 19:23 2/17/20 20:21	2/17/20 19:25 2/17/20 20:25	0.03 0.07	0.97	VFD Overload	Nick T., Dustin C. & Collin P
13	x Shutdown Event x Startup Event Malfunction Event	Flare	2/18/20 15:00 2/18/20 15:22	2/18/20 15:02 2/18/20 15:26	0.03 0.07	0.37	Sump Cleaning	Nick T., Dustin C. & Collin P
14	x Shutdown Event x Startup Event Malfunction Event	Flare	2/21/20 9:04 2/21/20 11:05	2/21/20 9:06 2/21/20 11:09	0.03 0.07	2.02	Flare Cleaning	Nick T., Dustin C. & Collin P
15	x Shutdown Event x Startup Event Malfunction Event	Flare	3/6/20 10:18 3/6/20 12:45	3/6/20 10:20 3/6/20 12:49	0.03 0.07	2.45	Flare Cleaning	Nick T., Dustin C. & Collin P
16	x Shutdown Event x Startup Event Malfunction Event	Flare	3/9/20 4:08 3/9/20 18:32	3/9/20 4:10 3/9/20 18:36	0.03 0.07	14.40	Flare blower swap	Nick T., Dustin C. & Collin P
17	x Shutdown Event x Startup Event Malfunction Event	Flare	3/31/20 9:16 3/31/20 11:49	3/31/20 9:18 3/31/20 11:53	0.03 0.07	2.55	New PLC install and 12" tie-in/valve installation	Nick T., Dustin C. & Collin P
18	x Shutdown Event x Startup Event Malfunction Event	Flare	3/31/20 13:11 3/31/20 13:41	3/31/20 13:13 3/31/20 13:45	0.03 0.07	0.50	New PLC install and 12" tie-in/valve installation	Nick T., Dustin C. & Collin P

SIMI VALLEY LANDFILL
FLARE NO. 3 DOWNTIME LOG
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
19	x Shutdown Event x Startup Event Malfunction Event	Flare	4/1/20 11:54 4/1/20 12:29	4/1/20 11:56 4/1/20 12:33	0.03 0.07	0.58	New PLC install and 12" tie-in/valve installation	Nick T., Dustin C. & Collin P
20	x Shutdown Event x Startup Event Malfunction Event	Flare	4/14/20 7:57 4/14/20 9:31	4/14/20 7:59 4/14/20 9:35	0.03 0.07	1.57	Flare Clean	Nick T., Dustin C. & Collin P
21	x Shutdown Event x Startup Event x Malfunction Event	Flare	4/22/20 11:17 4/22/20 15:01	4/22/20 11:19 4/22/20 15:05	0.03 0.07	3.73	VFD Overheat	Nick T., Dustin C. & Collin P
22	x Shutdown Event x Startup Event x Malfunction Event	Flare	4/23/20 14:55 4/23/20 15:17	4/23/20 14:57 4/23/20 15:21	0.03 0.07	0.37	VFD Overheat	Nick T., Dustin C. & Collin P
23	x Shutdown Event x Startup Event Malfunction Event	Flare	4/24/20 8:21 4/24/20 10:47	4/24/20 8:23 4/24/20 10:51	0.03 0.07	2.43	SCS Manifod Work	Nick T., Dustin C. & Collin P
24	x Shutdown Event x Startup Event Malfunction Event	Flare	4/25/20 6:29 4/25/20 13:49	4/25/20 6:31 4/25/20 13:53	0.03 0.07	7.33	SCS Manifod Work	Nick T., Dustin C. & Collin P
25	x Shutdown Event x Startup Event Malfunction Event	Flare	4/28/20 14:10 4/28/20 16:27	4/28/20 14:12 4/28/20 16:31	0.03 0.07	2.28	Flare Clean	Nick T., Dustin C. & Collin P
26	x Shutdown Event x Startup Event Malfunction Event	Flare	4/29/20 7:50 5/5/20 13:42	4/29/20 7:52 5/5/20 13:46	0.03 0.07	149.87	Flare 4 Start/Troubleshooting	Nick T., Dustin C. & Collin P
27	x Shutdown Event x Startup Event Malfunction Event	Flare	5/5/20 14:18 5/6/20 16:02	5/5/20 14:20 5/6/20 16:06	0.03 0.07	25.73	Flare 4 Start/Troubleshooting	Nick T., Dustin C. & Collin P

< 120 hrs Flare 4 Operation

SIMI VALLEY LANDFILL
FLARE NO. 3 DOWNTIME LOG
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
28	x Shutdown Event x Startup Event Malfunction Event	Flare	5/7/20 10:26 5/8/20 14:00	5/7/20 10:28 5/8/20 14:04	0.03 0.07	27.57	Flare 4 Start/Troubleshooting	Nick T., Dustin C. & Collin P
29	x Shutdown Event x Startup Event Malfunction Event	Flare	5/11/20 8:36 5/11/20 16:04	5/11/20 8:38 5/11/20 16:08	0.03 0.07	7.47	Flare 4 Start/Troubleshooting	Nick T., Dustin C. & Collin P
30	x Shutdown Event x Startup Event Malfunction Event	Flare	5/13/20 16:50 5/14/20 9:22	5/13/20 16:52 5/14/20 9:26	0.03 0.07	16.53	Flare 4 Start/Troubleshooting	Nick T., Dustin C. & Collin P
31	x Shutdown Event x Startup Event Malfunction Event	Flare	5/19/20 7:22 5/19/20 16:26	5/19/20 7:24 5/19/20 16:30	0.03 0.07	9.07	Sump Cleaning	Nick T., Dustin C. & Collin P
32	x Shutdown Event x Startup Event x Malfunction Event	Flare	5/24/20 5:05 5/24/20 8:45	5/24/20 5:07 5/24/20 8:49	0.03 0.07	3.67	H2S Breakthrough Warning	Nick T., Dustin C. & Collin P
33	x Shutdown Event x Startup Event x Malfunction Event	Flare	5/24/20 16:00 5/28/20 9:45	5/24/20 16:02 5/28/20 9:49	0.03 0.07	89.75	Burner Overheat Error	Nick T., Dustin C. & Collin P
34	x Shutdown Event x Startup Event x Malfunction Event	Flare	5/28/20 14:40 5/28/20 15:55	5/28/20 14:42 5/28/20 15:59	0.03 0.07	1.25	Burner Overheat Error	Nick T., Dustin C. & Collin P
35	x Shutdown Event x Startup Event Malfunction Event	Flare	5/29/20 6:30 5/29/20 10:30	5/29/20 6:32 5/29/20 10:34	0.03 0.07	4.00	Thermocuple Repair Attempt	Nick T., Dustin C. & Collin P
36	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/4/20 20:00 6/5/20 6:40	6/4/20 20:02 6/5/20 6:44	0.03 0.07	10.67	Burner High Shutdown Error	Nick T., Dustin C. & Collin P

SIMI VALLEY LANDFILL
FLARE NO. 3 DOWNTIME LOG
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
37	x Shutdown Event x Startup Event Malfunction Event	Flare	6/7/20 7:50 6/8/20 15:40	6/7/20 7:52 6/8/20 15:44	0.03 0.07	31.83	Flare 3 bottom cleanout/thermocouple replacement	Nick T., Dustin C. & Collin P
38	x Shutdown Event x Startup Event Malfunction Event	Flare	6/19/20 7:15 6/19/20 11:00	6/19/20 7:17 6/19/20 11:04	0.03 0.07	3.75	Enviroserv sump clean	Nick T., Dustin C. & Collin P
39	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/20/20 0:00 6/21/20 6:35	6/20/20 0:02 6/21/20 6:39	0.03 0.07	30.58	Burner High Shutdown Error	Nick T., Dustin C. & Collin P
40	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/21/20 8:45 6/21/20 9:15	6/21/20 8:47 6/21/20 9:19	0.03 0.07	0.50	VFD Failure	Nick T., Dustin C. & Collin P
41	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/23/20 6:40 6/23/20 9:25	6/23/20 6:42 6/23/20 9:29	0.03 0.07	2.75	Burner High Shutdown Error	Nick T., Dustin C. & Collin P
42	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/24/20 21:50 6/25/20 2:20	6/24/20 21:52 6/25/20 2:24	0.03 0.07	4.50	Biogas Error	Nick T., Dustin C. & Collin P
43	x Shutdown Event x Startup Event Malfunction Event	Flare	6/25/20 10:45 6/25/20 14:30	6/25/20 10:47 6/25/20 14:34	0.03 0.07	3.75	EMS Burner Fix	Nick T., Dustin C. & Collin P
44	x Shutdown Event x Startup Event Malfunction Event	Flare	6/26/20 6:40 6/26/20 12:30	6/26/20 6:42 6/26/20 12:34	0.03 0.07	5.83	Biogas Troubleshooting	Nick T., Dustin C. & Collin P

SIMI VALLEY LANDFILL
FLARE #4 DOWNTIME LOG
January - June 2020

Flare started up: 4/29/20 18:02

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
1	x Shutdown Event x Startup Event Malfunction Event	Flare	4/29/20 19:58 4/30/20 7:42	4/29/20 20:00 4/30/20 7:46	0.03 0.07	11.73	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
2	x Shutdown Event x Startup Event Malfunction Event	Flare	4/30/20 8:24 4/30/20 17:10	4/30/20 8:26 4/30/20 17:14	0.03 0.07	8.77	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
3	x Shutdown Event x Startup Event Malfunction Event	Flare	4/30/20 17:46 4/30/20 18:04	4/30/20 17:48 4/30/20 18:08	0.03 0.07	0.30	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
4	x Shutdown Event x Startup Event Malfunction Event	Flare	5/1/20 7:38 5/1/20 18:04	5/1/20 7:40 5/1/20 18:08	0.03 0.07	10.43	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
5	x Shutdown Event x Startup Event Malfunction Event	Flare	5/1/20 16:38 5/1/20 17:32	5/1/20 16:40 5/1/20 17:36	0.03 0.07	0.90	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
6	x Shutdown Event x Startup Event Malfunction Event	Flare	5/4/20 9:20 5/4/20 14:16	5/4/20 9:22 5/4/20 14:20	0.03 0.07	4.93	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
7	x Shutdown Event x Startup Event Malfunction Event	Flare	5/5/20 8:18 5/5/20 13:10	5/5/20 8:20 5/5/20 13:14	0.03 0.07	4.87	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T

SIMI VALLEY LANDFILL
FLARE #4 DOWNTIME LOG
January - June 2020

Flare started up: 4/29/20 18:02

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
8	x Shutdown Event x Startup Event Malfunction Event	Flare	5/5/20 14:20 5/5/20 16:26	5/5/20 14:22 5/5/20 16:30	0.03 0.07	2.10	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
9	x Shutdown Event x Startup Event Malfunction Event	Flare	5/6/20 5:28 5/6/20 7:24	5/6/20 5:30 5/6/20 7:28	0.03 0.07	1.93	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
10	x Shutdown Event x Startup Event Malfunction Event	Flare	5/6/20 9:50 5/6/20 17:20	5/6/20 9:52 5/6/20 17:24	0.03 0.07	7.50	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
11	x Shutdown Event x Startup Event Malfunction Event	Flare	5/8/20 9:34 5/9/20 13:14	5/8/20 9:36 5/9/20 13:18	0.03 0.07	27.67	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
12	x Shutdown Event x Startup Event Malfunction Event	Flare	5/11/20 8:34 5/11/20 16:10	5/11/20 8:36 5/11/20 16:14	0.03 0.07	7.60	Flare 4 Start/Troubleshooting	Collin P, Dustin C and Nick T
13	x Shutdown Event x Startup Event Malfunction Event	Flare	5/19/20 7:20 5/19/20 16:32	5/19/20 7:22 5/19/20 16:36	0.03 0.07	9.20	Sump Cleaning	Collin P, Dustin C and Nick T
14	x Shutdown Event x Startup Event x Malfunction Event	Flare	5/24/20 6:02 5/24/20 9:52	5/24/20 6:04 5/24/20 9:56	0.03 0.07	3.83	H2S Breakthrough Warning	Collin P, Dustin C and Nick T

SIMI VALLEY LANDFILL
FLARE #4 DOWNTIME LOG
January - June 2020

Flare started up: 4/29/20 18:02

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
15	x Shutdown Event x Startup Event x Malfunction Event	Flare	5/28/20 8:14 5/28/20 17:08	5/28/20 8:16 5/28/20 17:12	0.03 0.07	8.90	High Flow Shutdown	Collin P, Dustin C and Nick T
16	x Shutdown Event x Startup Event x Malfunction Event	Flare	5/29/20 7:28 5/29/20 11:42	5/29/20 7:30 5/29/20 11:46	0.03 0.07	4.23	High Flow Shutdown	Collin P, Dustin C and Nick T
17	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/8/20 11:20 6/8/20 11:46	6/8/20 11:22 6/8/20 11:50	0.03 0.07	0.43	Power Loss	Collin P, Dustin C and Nick T
18	x Shutdown Event x Startup Event Malfunction Event	Flare	6/19/20 8:18 6/19/20 12:14	6/19/20 8:20 6/19/20 12:18	0.03 0.07	3.93	Sump Cleaning	Collin P, Dustin C and Nick T
19	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/21/20 4:00 6/21/20 10:32	6/21/20 4:02 6/21/20 10:36	0.03 0.07	6.53	VFD Failure	Collin P, Dustin C and Nick T
20	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/23/20 7:42 6/23/20 10:46	6/23/20 7:44 6/23/20 10:50	0.03 0.07	3.07	High Flow Shutdown	Collin P, Dustin C and Nick T
21	x Shutdown Event x Startup Event x Malfunction Event	Flare	6/24/20 23:38 6/25/20 3:48	6/24/20 23:40 6/25/20 3:52	0.03 0.07	4.17	Biogas Error	Collin P, Dustin C and Nick T
22	x Shutdown Event x Startup Event Malfunction Event	Flare	6/26/20 7:38 6/26/20 13:42	6/26/20 7:40 6/26/20 13:46	0.03 0.07	6.07	Biogas Troubleshooting	Collin P, Dustin C and Nick T

Simi GCCS Downtime January - June 2020		
Date of Shutdown	Duration of Event (Hours)	Cause or Reason
4/29/20 - 4/30/20	11.73	Flare #4 initial startup/troubleshooting
4/30/2020	8.77	Flare #4 startup/troubleshooting
4/30/2020	0.3	Flare #4 startup/troubleshooting
5/1/2020	10.43	Flare #4 startup/troubleshooting
5/1/2020	0.9	Flare #4 startup/troubleshooting
5/4/2020	4.93	Flare #4 startup/troubleshooting
5/5/2020	4.87	Flare #4 startup/troubleshooting
5/5/2020	2.1	Flare #4 startup/troubleshooting
5/6/2020	1.93	Flare #4 startup/troubleshooting
5/6/2020	6.2	Flare #4 startup/troubleshooting
5/8/2020	4.43	Flare #4 startup/troubleshooting
5/11/2020	7.6	Flare #4 startup/troubleshooting
5/19/2020	9.2	GCCS Sump Cleaning
5/24/2020	3.67	H2S Breakthrough Warning
5/28/2020	3.56	Burner Overheating Error Detected
5/29/2020	4.0	Thermocouple Repairs
6/8/2020	0.24	Power Outage
6/19/2020	3.75	GCCS Sump Cleaning
6/21/2020	4.08	VFD Malfunction
6/23/2020	2.75	Burner High Shutdown Error Detected
6/25/2020	3.41	EMS Burner Fix
6/26/2020	5.83	Biogas System Troubleshooting

Simi Valley Landfill
COLLECTION SYSTEM DOWNTIME LOG - WELLS
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
1	x Shutdown Event x Startup Event Malfunction Event	1560	11/14/19 10:30 2/21/20 12:11	11/14/19 10:32 2/21/20 12:13	0.03 0.03	2,377.68	Disconnected for filling operations	Nick T., Dustin C. & Collin P.
2	x Shutdown Event x Startup Event Malfunction Event	1815	11/14/19 10:45 2/21/20 15:16	11/14/19 10:47 2/21/20 15:18	0.03 0.03	2,380.52	Disconnected for filling operations	Nick T., Dustin C. & Collin P.
3	x Shutdown Event x Startup Event Malfunction Event	1816	11/14/19 11:00 2/21/20 12:17	11/14/19 11:02 2/21/20 12:19	0.03 0.03	2,377.28	Disconnected for filling operations	Nick T., Dustin C. & Collin P.
4	x Shutdown Event Startup Event Malfunction Event	103S	2/28/20 15:18	2/28/20 15:20 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
5	Shutdown Event x Startup Event Malfunction Event	2045	2/7/20 8:30	2/7/20 8:32 1/0/00 0:02	0.03 0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
6	Shutdown Event x Startup Event Malfunction Event	2047	2/7/20 8:45	2/7/20 8:47 1/0/00 0:02	0.03 0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
7	Shutdown Event x Startup Event Malfunction Event	2056	2/7/20 8:15	2/7/20 8:17 1/0/00 0:02	0.03 0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
8	Shutdown Event x Startup Event Malfunction Event	2064S	2/7/20 8:00	2/7/20 8:02 1/0/00 0:02	0.03 0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
9	Shutdown Event x Startup Event Malfunction Event	2064D	2/7/20 9:00	2/7/20 9:02 1/0/00 0:02	0.03 0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
10	Shutdown Event x Startup Event Malfunction Event	H2001A	3/10/20 8:30	3/10/20 8:32 1/0/00 0:02	0.03 0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.

Simi Valley Landfill
COLLECTION SYSTEM DOWNTIME LOG - WELLS
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
11	[ ] Shutdown Event [x] Startup Event [ ] Malfunction Event	H2001B	3/10/20 9:30 1/0/00 0:02	3/10/20 9:32 1/0/00 0:02	0.03 0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
12	[x] Shutdown Event [ ] Startup Event [ ] Malfunction Event	804D	2/18/20 15:40 1/0/00 0:02	2/18/20 15:42 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
13	[x] Shutdown Event [ ] Startup Event [ ] Malfunction Event	804S	2/18/20 15:45 1/0/00 0:02	2/18/20 15:47 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
14	[x] Shutdown Event [ ] Startup Event [ ] Malfunction Event	1405A	2/20/20 8:30 1/0/00 0:02	2/20/20 8:32 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
15	[x] Shutdown Event [ ] Startup Event [ ] Malfunction Event	1106	2/20/20 8:15 1/0/00 0:02	2/20/20 8:17 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
16	[x] Shutdown Event [ ] Startup Event [ ] Malfunction Event	1230	2/20/20 8:00 1/0/00 0:02	2/20/20 8:02 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
17	[x] Shutdown Event [ ] Startup Event [ ] Malfunction Event	1360A	2/20/20 8:45 1/0/00 0:02	2/20/20 8:47 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
18	[x] Shutdown Event [ ] Startup Event [ ] Malfunction Event	35	2/20/20 8:30 1/0/00 0:02	2/20/20 8:32 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
19	[x] Shutdown Event [ ] Startup Event [ ] Malfunction Event	37R	2/20/20 9:00 1/0/00 0:02	2/20/20 9:02 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
20	[x] Shutdown Event [ ] Startup Event [ ] Malfunction Event	1002	2/20/20 9:30 1/0/00 0:02	2/20/20 9:32 1/0/00 0:02	0.03 0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.

Simi Valley Landfill
COLLECTION SYSTEM DOWNTIME LOG - WELLS
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
21	x Shutdown Event Startup Event Malfunction Event	1566D	2/21/20 8:15	2/21/20 8:17	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
22	x Shutdown Event Startup Event Malfunction Event	1566S	2/21/20 8:30	2/21/20 8:32	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
23	x Shutdown Event Startup Event Malfunction Event	1352	2/21/20 8:45	2/21/20 8:47	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
24	x Shutdown Event Startup Event Malfunction Event	815	3/12/20 10:15	3/12/20 10:17	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
25	x Shutdown Event Startup Event Malfunction Event	1934S	3/12/20 10:30	3/12/20 10:32	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
26	x Shutdown Event Startup Event Malfunction Event	1935S	3/12/20 10:45	3/12/20 10:47	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
27	x Shutdown Event Startup Event Malfunction Event	1009	3/12/20 11:15	3/12/20 11:17	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
28	x Shutdown Event Startup Event Malfunction Event	701D	3/12/20 8:15	3/12/20 8:17	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
29	x Shutdown Event Startup Event Malfunction Event	701S	3/12/20 8:30	3/12/20 8:32	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
30	X Shutdown Event Startup Event Malfunction Event	821	3/12/20 8:45	3/12/20 8:47	0.03	N/A	Decomissioned for new wells	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			

Simi Valley Landfill
COLLECTION SYSTEM DOWNTIME LOG - WELLS
January - June 2020

Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
31	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2043D	2/11/20 0:00	2/11/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
32	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2043S	2/11/20 0:00	2/11/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
33	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2049	2/11/20 0:00	2/11/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
34	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2044D	2/18/20 0:00	2/18/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
35	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2044S	2/18/20 0:00	2/18/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
36	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2054D	2/18/20 0:00	2/18/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
37	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2054S	2/18/20 0:00	2/18/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
38	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2042D	2/18/20 0:00	2/18/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
39	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2042S	2/18/20 0:00	2/18/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
40	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2065	2/18/20 0:00	2/18/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			

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Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
41	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2061D	2/21/20 0:00	2/21/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
42	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2061S	2/21/20 0:00	2/21/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
43	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2053	2/21/20 0:00	2/21/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
44	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2041	2/21/20 0:00	2/21/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
45	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2057	2/21/20 0:00	2/21/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
46	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2052D	2/21/20 0:00	2/21/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
47	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2052S	2/21/20 0:00	2/21/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
48	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2081D	2/25/20 0:00	2/25/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
49	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2081S	2/25/20 0:00	2/25/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
50	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2086	2/25/20 0:00	2/25/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			

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51	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2058	2/25/20 0:00	2/25/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
52	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2046	2/26/20 0:00	2/26/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
53	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2063	2/27/20 0:00	2/27/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
54	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2070	2/27/20 0:00	2/27/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
55	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2082	2/27/20 0:00	2/27/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
56	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2062	2/27/20 0:00	2/27/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
57	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2084	3/6/20 0:00	3/6/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
58	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2048	3/6/20 0:00	3/6/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
59	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2055	3/10/20 0:00	3/10/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
60	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2059	3/10/20 0:00	3/10/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			

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Event No.	(CHECK) (APPLICABLE EVENT)	DEVICE	(1) START OF EVENT DATE AND TIME	(2) END OF EVENT DATE AND TIME	(3) DURATION OF EVENT (HRS)	Total Downtime (HRS)	(4) CAUSE OR REASON	Completed by
61	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2083	3/17/20 0:00	3/17/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
62	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2060	3/17/20 0:00	3/17/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
63	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2076	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
64	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2077	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
65	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2078	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
66	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2079	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
67	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2080	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
68	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2072	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
69	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2073	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
70	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2074	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			

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71	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2071	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
72	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2087	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			
73	[ ] Shutdown Event [X] Startup Event [ ] Malfunction Event	2088	6/2/20 0:00	6/2/20 0:02	0.03	N/A	New well brought online	Nick T., Dustin C. & Collin P.
				1/0/00 0:02	0.03			

APPENDIX B

SSM PLAN DEPARTURE REPORT FORMS

(No departures or deviations from SSM Plan occurred during reporting period)

APPENDIX C

REVISED SSM PLAN

(No revisions to SSM Plan were made or required to be made during the reporting period)