

West Contra Costa Sanitary Landfill 1 Parr Blvd., Richmond, CA 94801 o 510.970.7246 republicservices.com

November 30, 2021

Direction of Compliance and Enforcement Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105 Attn: Title V Reports TV Tracking #: 340

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> Director of the Air Division, USEPA Region IX 75 Hawthorne Street San Francisco, CA 94105 Attn: Air-3

Subject: Combined 8-34 Semi-Annual Report, 40 CFR Subpart AAAA Semi-Annual Report, and Title V Semi-Annual Monitoring Report West Contra Costa Sanitary Landfill, Richmond, California (Title V Facility No. A1840)

Dear Sir or Madam:

The West Contra Costa Sanitary Landfill (WCCSL) is pleased to submit the enclosed combined Bay Area Air Quality Management District (BAAQMD), Regulation 8, Rule 34 Semi-Annual Report; Semi-Annual Startup, Shutdown and Malfunction (SSM) Plan Report, and Title V Semi-Annual Monitoring Report to the BAAQMD and the U.S. Environmental Protection Agency (EPA) Region IX for WCCSL.

The Title V Semi-Annual Monitoring Report, the BAAQMD Rule 8-34 Semi-Annual Report, and the SSM Plan Report cover the period from May 1, 2021 through October 31, 2021.

The Title V reports meet the requirements specified in the Title V permit, BAAQMD guidance on Title V report submittals, and Regulation 2, Rule 6. The Rule 8-34 report includes the information required by BAAQMD Rule 8-34-411 and also satisfies the requirements under the New Source Performance Standards (NSPS) for municipal solid waste landfills (40 California Code of Regulation [CFR] Part 60, Subpart WWW and Subpart OOO), including 40 CFR 60.757(f). Please note that as of June 21, 2021, the facility complies with the new Emissions Guidelines (EG) requirements in California. The approved state plan for the EG includes compliance with Title 17 California Code of Regulations (CCR) Sections 95460 to 95476, known as AB 32 Landfill Methane Rule (LMR) and specific portions of 40 CFR Part 62 Subpart OOO. As of September 27, 2021, the federal National Emissions Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63, Subpart AAAA rule came into effect, superseding the major compliance provisions of the California EG Rule. The Semi-Annual SSM Plan Report satisfies the requirements under the Maximum Achievable Control Technology (MACT) rule for semi-annual reporting of SSM Plan implementation including 40 CFR 63.10(d)(S). The Title V reports and the SSM Plan report each includes a certification by the responsible official for WCCSL.

If you have any questions regarding this submittal, please do not hesitate to call me at (510) 970-7248 or email me at <u>EBaquerizo@republicservices.com</u>.

Sincerely,

Ed Baquerizo / Environmental Manager West Contra Costa Sanitary Landfill

cc: Rob Sherman, West Contra Costa Sanitary Landfill Cassandra Drotman, SCS Engineers Anne Liu, SCS Engineers NSPS/BAAQMD Rule 8-34 Semi-Annual Report, SSM Plan Semi-Annual Report, and Title V Semi-Annual Report West Contra Costa Sanitary Landfill Richmond, California (Title V Facility No. A1840)

Prepared for:



West Contra Costa Sanitary Landfill 1 Parr Blvd. Richmond, CA 94109

For Submittal to:

Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105



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3843 Brickway Boulevard, Suite 208 Santa Rosa, CA 95403 707-546-9461 This submittal, consisting of the New Source Performance Standards (NSPS)/Bay Area Air Quality Management District (BAAQMD) Rule 8-34 Semi-Annual Report, the Semi-Annual Startup, Shutdown, and Malfunction Plan Report, and the Title V Semi-Annual Monitoring Report for the West Contra Costa Sanitary Landfill in Richmond, California, dated November 2021, was prepared and reviewed by the following:

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SECTION I. NSPS/BAAQMD RULE 8-34 SEMI-ANNUAL REPORT

1.0 INTRODUCTION

On behalf of West Contra Costa Sanitary Landfill, Inc. (WCCSL), SCS Engineers (SCS) prepared this combined New Source Performance Standard (NSPS), 40 Code of Federal Regulations (CFR) Part 60 (Subpart WWW), Part 62 (Subpart 000), Bay Area Air Quality Management District (BAAQMD or District) Rule 8-34 Semi-Annual Report (SAR), and Semi-Annual Startup, Shutdown and Malfunction (SSM) Plan Report pertaining to WCCSL for the period of May 1, 2021 through October 31, 2021 to the BAAQMD and the United States Environmental Protection Agency (EPA).

Please note that as of June 21, 2021, the facility complies with the new Emission Guidelines (EG) requirements in California. The approved state plan for the EG includes compliance with Title 17 California Code of Regulations (CCR) Sections 95460 to 95476, known as the AB 32 Landfill Methane Rule (LMR) and specific portions of 40 CFR Part 62 Subpart 000. The NSPS/EG references will be updated in the next semi-annual report.

This Semi-Annual report also meets the requirements of the revised federal National Emissions Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63, Subpart AAAA rule for MSW landfills, 40 CFR 63, Subpart AAAA, which went into effect on September 27, 2021, and complies with the requirements specified in WCCSL's Title V permit. The revised NESHAP supersedes the major compliance provisions of the California EG Rule. The new standards did not apply to this reporting period, except for September 27 through October 31, 2021, and will be discussed in this report as needed, and WCCSL complied with the pre-September 27, 2021 version of the NESHAP rule during the May 1, 2021 to September 27, 2021 reporting period.

The Semi-Annual Report pertains to the landfill gas (LFG) collection and control system (GCCS) operated at WCCSL.

This report includes the following information, as required by BAAQMD Rule 8-34-411:

- All collection system and/or component downtime and reasons for the shutdown (8-34-501.1).
- All emission control system downtime and reason for the shutdown (8-34-501.2).
- Continuous temperature monitoring and dates of any excesses (8-34-501.3 and 507).
- Testing performed to satisfy the requirements of this Rule (8-34-501.4).
- Monthly LFG flow rates and excesses (8-34-501.5).
- Collection and emission control system leak testing and any excesses, action taken to correct excesses, and re-monitored concentrations (8-34-501.6 and 503).
- Landfill surface monitoring, location of excesses, excess concentration, date discovered, actions taken to repair the excess, and re-monitored concentrations (8-34-501.6 and 506).

- Annual waste acceptance rate and the current amount of waste in-place (8-34-501.7).
- Records of non-degradable waste if area is excluded from LFG collection (8-34-501.8).
- Well head monitoring including gauge pressure, LFG temperature, and LFG oxygen concentration (8-34-501.9 and 505).
- Continuous flow monitoring (8-34-501.10).

Information summarizing the monitoring activities associated with the above-listed items is provided in the following sections.

2.0 SITE BACKGROUND INFORMATION

WCCSL is a closed combined municipal solid waste (MSW) (Class II) and hazardous waste landfill (Class I) located in Richmond, California. The Class II landfill accepted MSW, construction and demolition (C&D) debris, de-watered sludge, and a small (less than one [1] percent) quantity of Group 1 hazardous wastes, including asbestos and infectious wastes. The Class I Hazardous Waste Management Facility (HWMF) is adjacent to the Class II landfill. The Class I LFG GCCS was installed in 2004 and began operation in 2005. A layer of MSW was placed in the Class I landfill directly preceding closure; therefore, a GCCS was installed to control the LFG from the decomposing MSW. The Class II GCCS was originally installed in 1985 and was partially replaced in October 2008. The new system began full operation in March 2009. As of December 15, 2012, the GCCS for Class I and Class II have been combined.

2.1 EXISTING AIR PERMITS

WCCSL maintains a BAAQMD permit to operate (PTO) (Plant No. 1840). PTO Condition No. 25293 includes requirements for the closed Class I and II waste disposal areas and the associated wellfield, collection system, and flares A-161 (primary flare) and A-8 (backup flare). PTO Condition No. 20754 includes requirements for the HWMF and the associated wellfield components. WCCSL also maintains BAAQMD PTOs for three LFG-fired engines (S-5, S-6, and S-37). S-5 and S-6 are permitted under PTO Condition No. 5771 and S-37 is permitted under PTO Condition No. 17812.

WCCSL also maintains BAAQMD PTOs for a Leachate Treatment System (Condition No. 25004), a Solid Waste Transfer Station (Condition No. 22792), and an Authority to Construct (ATC) for a Covered Aerated Static Pile Composting (CASP) operation (Conditions No. 26086 through 26088), as well as PTOs for other various processing equipment.

Condition Nos. 25293 and 20754 incorporate all applicable requirements from NSPS Subpart WWW and from BAAQMD Rule 8-34, which are addressed in this report. WCCSL also maintains a Major Facility Review (MFR or Title V) Permit (Facility No. A1840), which expired on December 19, 2015. A timely and complete renewal application was completed and submitted to the BAAQMD prior to June 19, 2015, as required. The renewal application is still under review by the BAAQMD. As such, WCCSL is operating under a permit shield pending issuance of the new MFR Permit.

A GCCS Design Plan was prepared for the site to review and determine the adequacy of the existing LFG system. The current design of the system was determined to be adequate to comply with both

NSPS, NESHAPs, and BAAQMD Rule 8-34 requirements. The system design is based on the density of wells calculated to sufficiently extract the maximum flow of LFG generated, according to the EPA LFG emissions model (LandGEM). The GCCS is designed to control surface emissions, as well as to minimize subsurface lateral migration of LFG. Both the perimeter of the landfill and the landfill surface are monitored on a quarterly basis. Additional details regarding the GCCS are in the GCCS Design Plan that was previously submitted to the BAAQMD. A drawing showing the existing GCCS is provided in **Appendix B**.

2.2 EXISTING LANDFILL GAS COLLECTION AND CONTROL SYSTEM

The GCCS at WCCSL consists of extraction wells used to collect the LFG from within the landfill (the "wellfield") and a piping system (the "collection system") used to convey the collected LFG to the control systems for destruction. The LFG is extracted from the landfill through a combination of vertical gas extraction wells and horizontal gas extraction trenches/pipes, as well as leachate collection system components.

The LFG is controlled by the emission control system. The emission control system consists of a LFGto-energy (LFGTE) facility, which consists of three lean burn internal combustion (IC) engines (S-5, S-6, S-37), an enclosed flare (A-161), and a back-up flare (A-8). The S-5 engine has been out of service since December 2017, and the S-37 engine is no longer able to operate due to a catastrophic failure in March 2018. As such, the S-6 engine is currently the only engine in operation.

The A-161 Flare was installed in November 2017 and replaced the A-120 Flare. The A-8 Flare acts as a backup control device to the A-161 Flare.

A diagram of the GCCS displaying system component locations is shown in the site plan provided in **Appendix B**.

3.0 MONITORING AND RECORDS

3.1 CONTINUOUSLY MONITORED PARAMETERS

According to BAAQMD Rule 8-34-301.1, the GCCS must be operated continuously. To comply with this requirement, the landfill owner/operator is required to maintain full-time operation of the LFG collection system and control system, as well as individual extraction wells. Downtime for any of these components must be reported in the Rule 8-34 Semi-Annual Report. This information is summarized below and in the attached tables. Records of continuously monitored parameters are available for review at the site.

3.1.1 Gas Extraction System Downtime

During the reporting period, the LFG extraction system was off-line on eighteen (18) occasions for a total of 54.33 hours. Shutdowns involved pre-programmed or manual system shutdowns for inspection, maintenance and/or repair of the GCCS, and thus meet the criteria for allowed GCCS downtime, as specified in Rule 8-34-113 and in accordance with the BAAQMD November 5, 2018 Compliance Advisory, with the exception of five events. These events included six (6) power outages, which resulted in shutdowns of the GCCS that occurred on May 5, 2021 from 10:33 to 10:48, May

25, 2021 from 18:59 to 21:04, June 2, 2021 from 12:42 to 07:34, June 24, 2021 from 07:24 to 07:56, October 7, 2021 from 20:18 to 20:30, and October 24, 2021 at 09:08 to October 25, 2021 at 9:08. These events were reported to the BAAQMD as reportable compliance activities (RCA) and breakdown relief was requested. Due to the short duration of these events, there is no reason to believe there were any excess LFG surface emissions during these GCCS downtimes.

A summary of the GCCS downtime for this reporting period is provided in **Table 1a**, including the date, reason for the downtime, description of the corrective measure(s) implemented to resume GCCS operation, and the total elapsed time for each event. Gas extraction system downtime records are available for review at the site. These include periods of times when the entire GCCS was offline.

3.1.2 Emission Control System Downtime

A-161 Flare

During the reporting period, the A-161 Flare was off-line on several occasions. A summary of the A-161 Flare downtime is provided in **Table 1b**, including the date, reason for the downtime, and the total elapsed time for each event. During the reporting period, downtime for the A-161 Flare occurred over a cumulative period of approximately 56.20 hours. Emission control system downtime records are available for review at the site.

A-8 Backup Flare

During the reporting period, the A-8 Flare was off-line the entire reporting. A summary of the A-8 Flare downtime is provided in **Table 1c**, including the date, reason for the downtime, and the total elapsed time for each event. During the reporting period, downtime for the A-8 Flare occurred over a cumulative period of approximately 4,416 hours. Emission control system downtime records are available for review at the site.

LFGTE Facility

During the reporting period, individual IC engines may go offline. In addition, there may be periods when the entire LFGTE facility is offline (all engines offline concurrently). However, note that the S-5 engine has been out of service since December 2017, and the S-37 engine is no longer able to operate due to a catastrophic failure which occurred in March 2018. Therefore, during the entire reporting period S-6 was the only operating engine. During the reporting period, the entire LFGTE facility was offline for a total of 2,462.2 hours. Downtime logs, which include individual IC engine shut downs, are included in **Appendix C**.

3.1.3 Individual Well Downtime

Individual well downtime is permitted in accordance with Condition 20754, Part 2(c) of WCCSL's permit which states a minimum of eight (8) horizontal collectors within the Class I Landfill shall be operated at any one time. A horizontal collector or leachate/gas extraction well may be temporarily disconnected from the vacuum system if the methane concentration detected in the collector or well is less than 5.0% by volume and the oxygen concentration detected in the collector or well is 15% by volume or more. There are no limits for how long the horizontal collectors can remain offline as long as the methane content does not exceed 5%.

In addition, well downtown is permitted in accordance with Condition 25293(7)(a) through (c) of WCCSL's for the wells located in the Class II Landfill. Condition 25293(7)(a) allows an unspecified number of leachate collection and recovery system (LCRS) components to be disconnected from the vacuum system when methane concentration in the component is less than 5.0% by volume, or when oxygen concentration in the component is 15% by volume or more, or when abatement is no longer necessary to maintain compliance with applicable component and surface leak limits. Condition 25293(7)(b) allows no more than five (5) vertical wells be temporarily disconnected from the vacuum system as long as the total vacuum system disconnection time does not exceed 120 days during any 12-month period. Condition 25293(7)(c) states that an unspecified number of horizontal collectors can be temporarily disconnected from the vacuum system when methane concentration in the component is 15% by volume, or when oxygen concentration is the component is 15% by volume, or when oxygen concentration is the component is less than 5.0% by volume, or when oxygen concentration is the component is 15% by volume or more. There are no limits for how long the LCRS components or horizontal collectors can remain offline as long as the methane content does not exceed 5%.

As required per Condition 20754, Part 2(v)(5) and Condition 25293(7)(c)(iv), collection system components that are temporarily disconnected from the vacuum system are required to be monitored for component leaks: within seven days after being disconnected for Class I Landfill components and within ten days after being disconnected for Class II Landfill component. In addition, follow-up component leak testing is required within 30 days of disconnecting both Class I and Class II Landfill components from vacuum. If a component leak is detected at a component, all necessary steps to reduce the leak below the 8-34 1,000 parts per million by volume (ppm_v) leak limit is required, which typically consists of bringing the well back online. During the reporting period, component leak monitoring was conducted in accordance with these permit conditions.

All well disconnections were in compliance with the conditions specified above.

Details of individual well shutdown and well startups occurring during the reporting period are provided in **Table 2**.

3.1.4 Flow Meter and Temperature Gauge Downtime

The continuous operation of the GCCS is measured through the continuous monitoring of LFG flow to each flare and flare combustion temperature. As required by Rule 8-34, the A-161 and A-8 Flares at WCCSL are equipped with flow measuring devices and temperature gauges that provide continuous readout displays using digital chart recorders. During the reporting period, the flow meter(s) and temperature gauge(s)/recorders at the flare station did not go out of operation due to malfunction or other breakdown conditions.

Continuous monitoring and calibration information are available for review at the site.

3.1.5 Flare Combustion Zone Temperature

WCCSL is required by permit condition No. 25293, Part 9 to operate the A-161 and A-8 Flares in such a manner that the combustion zone temperature within the flare does not drop below the permitted limit of 1,400 degrees Fahrenheit (°F) (averaged over a 3-hour period), or a higher temperature based on the most recent source test.

From May 1, 2021 through October 31, 2021, the minimum temperature above which the A-161 Flare was required to operate was 1,580°F (source test results minus 50°F), based on the December 28, 2020 source test (test report dated February 10, 2021).

From May 1, 2021 through October 31, 2021, the minimum temperature above which the A-8 Flare was required to operate was 1,575°F (source test results minus 50°F), based on the December 28, 2020 source test (test report dated February 10, 2021).

During the reporting period, the A-161 and A-8 flares operated above the minimum established temperatures at all times, except during periods of startup, shutdown, and malfunction (SSM) which are exempt.

Flare temperature records are available for review at the site. Excerpts from the February 10, 2021 source test report, summarizing the test results for the flares, was included in the previous report.

3.2 COMPONENT LEAK QUARTERLY MONITORING

During the reporting period, quarterly testing of the GCCS components for any leaks with a methane concentration of greater than 1,000 ppm_v, as required by BAAQMD Rule 8-34-503, was conducted. Testing in the wellfield and at the flare station was performed using an organic vapor analyzer (OVA), which was calibrated on the same day as the testing. Monitoring results are provided in **Appendix D** and are available for review at the site.

3.2.1 Second Quarter 2021 Monitoring

SCS Field Services (SCSFS) personnel conducted the component leak monitoring of the flare station, LFGTE Plant, waste water treatment plant, and wellfield in conjunction with quarterly Surface Emission Monitoring (SEM) on May 11, 2021. No component leaks above 1,000 ppm_v were detected at the flare station, wellfield, or LFGTE facility during second quarter 2021 monitoring event. These results are included in **Appendix D**.

3.2.2 Third Quarter 2021 Monitoring

SCSFS personnel conducted the component leak monitoring of flare station, LFGTE Plant, waste water treatment plant, and wellfield in conjunction with quarterly SEM on July 16, 2021. No component leaks above 1,000 ppm_v were detected at the flare station, wellfield, or LFGTE facility during third quarter 2021 monitoring event. These results are included in **Appendix D**.

3.2.3 Fourth Quarter 2021 Monitoring

SCSFS personnel conducted the component leak monitoring of the flare station, LFGTE Plant, waste water treatment plant, and wellfield in conjunction with quarterly SEM on October 8 and 11, 2021. No component leaks above 1,000 ppm_v were detected at the flare station, wellfield, or LFGTE facility during fourth quarter 2021 monitoring event. These results will be included in the next semi-annual report.

3.3 CONTROL EFFICIENCY

Flare A-8

LFG flare A-8 was tested on December 28, 2020 to demonstrate compliance with the control efficiency standard of 98 percent non-methane organic compound (NMOC) destruction efficiency or

outlet concentration of 30 ppm_v of NMOC as methane, corrected to 3% oxygen (for flares) as required by BAAQMD Rules 8-34-301.3, 8-34-412, and 8-34-501.4. The NMOC destruction efficiency for the A-8 Flare during the December 2020 source test was measured to be 99.46 percent by weight, and the NMOC as methane concentration in the flare outlet was <1.4 ppm_v. As such, flare A-8 is in compliance with the aforementioned rules.

Excerpts from the December 2020 source test report dated February 10, 2021, summarizing the test results, were included in the previous report.

Flare A-161

LFG flare A-161 was tested on December 28, 2020 to demonstrate compliance with the control efficiency standard of 98 percent NMOC destruction efficiency or outlet concentration of 30 ppm_v of NMOC as methane, corrected to 3% oxygen (for flares) as required by BAAQMD Rules 8-34-301.3, 8-34-412, and 8-34-501.4. The NMOC destruction efficiency for the A-161 Flare during the December 2020 source test was measured to be 99.997 percent by weight, and the NMOC as methane concentration in the flare outlet was <2.2 ppm_v. As such, flare A-161 is in compliance with the aforementioned rules.

Excerpts from the December 2020 source test report dated February 10, 2021, summarizing the test results, were included in the previous report.

IC Engines (S-5, S-6, and S-37)

The IC engines are required to demonstrate compliance with the control efficiency standard of 97 percent NMOC destruction efficiency or outlet concentration of 120 ppm_V of NMOC as methane, corrected to 3% oxygen (for energy recovery devices) as required by BAAQMD Rules 8-34-301.4, 8-34-412, and 8-34-501.4. The most recent source testing results for the S-6 engine are summarized below. The S-6 engine met the outlet concentration limit of 120 ppm_V of NMOC as methane, corrected to 3% oxygen during the most recent source tests.

Engine	Source Test Date	Results (ppm as CH ₄ @ 3% O ₂)
S-6	February 4, 2021	90.1

Note: The S-5 engine has been out of service since December 2017, and the S-37 engine is no longer able to operate due to a catastrophic failure in March 2018, and is therefore out of service.

An excerpt of the most recent S-6 engine source test report was included in the previous report.

3.4 LANDFILL SURFACE EMISSIONS MONITORING

Surface emissions monitoring (SEM) was conducted at WCCSL on a quarterly basis during the reporting period, in accordance with BAAQMD Rule 8-34-303 and 8-34-506. The SEM events were conducted in accordance with the SEM plan in the landfill's GCCS Design Plan. Testing was performed using a Trimble SiteFID Landfill Gas Monitor Portable Flame Ionization Detector (FID), which was calibrated the same day as the testing. The results of this monitoring are summarized below. Reports for each quarterly monitoring event are provided in **Appendix D**.

3.4.1 Second Quarter 2021 Monitoring

SCSFS personnel monitored the landfill surface for leaks with a methane concentration of greater than 500 ppm_v above background on May 10, 11, and 12, 2021. No surface emissions in excess of 500 ppm_v were detected during the second quarter 2021 monitoring event. As there was no surface emissions in excess of 500 ppm_v during the quarter, subsequent re-monitoring was not required. The results of the second quarter 2021 monitoring event are provided in the second quarter 2021 SEM (**Appendix D**).

3.4.2 Third Quarter 2021 Monitoring

SCSFS personnel monitored the landfill surface for leaks with a methane concentration of greater than 25 ppm_v and 500 ppm_v on July 9 and 16, 2021. Surface emissions in excess of 500 ppm_v were detected at four (4) locations during the third quarter 2021 monitoring event. System adjustments and repair work were performed by SCSFS. The subsequent 10-day re-monitoring, which was conducted on July 23, 2021, indicated that the four (4) areas with instantaneous exceedances had returned to compliance. One-month re-monitoring event was conducted, as required by 8-34 and the NSPS, on August 13, 2021, and all locations remained in compliance.

The results of the third quarter 2021 monitoring event are provided in the third quarter 2021 SEM report (**Appendix D**).

3.4.3 Fourth Quarter 2021 Monitoring

SCSFS personnel monitored the landfill surface for leaks with a methane concentration of greater than 500 ppm_v above background on October 8 and 11, 2021. No surface emissions in excess of 500 ppm_v were detected during the fourth quarter 2021 monitoring event. As there was no surface emissions in excess of 500 ppm_v during the quarter, subsequent re-monitoring was not required.

The results of the fourth quarter 2021 monitoring event will be provided in the next semi-annual report.

3.5 WELLHEAD MONTHLY MONITORING

Monthly wellhead monitoring for pressure, temperature, and oxygen content was conducted by SCS personnel during the reporting period to comply with BAAQMD Rule 8-34-305 and 9-34-414. The results of this monitoring are summarized below.

3.5.1 Pressure

The majority of the operational extraction wells were under negative pressure during the monitoring events conducted during the reporting period, in accordance with BAAQMD Rule 8-34-305 and 8-34-414. For any wells that exhibited positive pressure during this reporting period, the identification number and dates on which each well was operating with positive pressure are provided in **Table 3**. The table also includes corrective action and re-monitoring results. In all instances, corrective action and re-monitoring were performed in accordance with the 5- and 15-day requirements specified in the NSPS regulations and in Rule 8-34. Root cause analysis forms were completed for wells that had pressure exceedances that exceeded 15 days. There were no instances were pressure exceedances exceeded 60 days.

No operating wells demonstrated a positive pressure reading during the final monitoring event of the reporting period.

3.5.2 Oxygen

WCCSL has elected to use oxygen as its compliance standard under Rule 8-34-305, rather than nitrogen.

As of October 31, 2020, the following wells are approved to operate under at a higher operating value (HOV) of 15 percent (%) oxygen by volume pursuant to Permit Condition Number 20754 Part 2(c)(ii) and Condition Number 25293 Part 7(d)(iii):

 WCLFH01A, WCLFH01B, WCLFH02A, WCLFH02B, WCLFH03A, WCLFH03B, WCLFH04A, WCLFH04B, WCLFH05A, WCLFH05B, WCLFH06B, WCLFH07A, WCLFH08A, WCLFH08B, WCLFH09B, WCLFH10A, WCLFH10B, WCLFR001, WCLFR002, WCLFR003, WCLFR004, WCLFR005, WCLFR006, WCLFR007, WCLFR008, WCLFR009, WCLFR010, WCLFR011, WCLFR012, WCLFR013, WCLFR014, WCLFR015, and WCLFR016.

The majority of the wells were operating within their respective regulatory limits of 5% or 15% oxygen during the monitoring events conducted during the reporting period. The dates when wells were operating with excessive oxygen, and the well identification number, corrective actions, and remonitoring results for these wells are provided in **Table 4**.

As of the end of the reporting period, all of the operating wells were operating with an oxygen concentration below their respective 5% or 15% limits except for wells WCLF0602, WCLF0606, WCLF0812, WCLF0821, WCLF0826, WCLF0827, WCLFH05A, WCLFH05B, WCLFH07B, WCLFH10B, WCLFR001, WCLFR002, WCLFR003, WCLFR004, WCLFR005, WCLFR006, WCLFR009, WCLFR010, WCLFR013, and WCLFR014.

These wells will be returned to below their respective 5% or 15% limit by the applicable compliance dates, as specified in BAAQMD Rule 8-34-414, and compliance will be documented in the next semiannual report. Alternatively, if these wells continue to demonstrate high oxygen readings and low methane concentrations (less than 5%), they may be temporarily taken offline prior to the 120-day deadline pursuant to Condition Numbers 20754 Part 2(c)(iii), 25293 Part 7(b)(iii) and 25293 Part 7(c)(ii). Note, wells were subject to the oxygen exceedance level of 5 percent until June 21, 2021 under the NSPS Subpart WWW, after this date the Landfill was subject to the California state plan/Subpart 000 which requires monthly monitoring of oxygen but oxygen in excess of 5% is no longer is an exceedance, therefore the oxygen requirement after June 21, 2021 is a District only requirement.

As of the end of the previous reporting period, wells WCLF0515, WCLF0607, WCLF0832, WCLFH01A, WCLFH01B, WCLFH05A, WCLFH05B, WCLFH08B, WCLFH09A, WCLFR001, WCLFR002, WCLFR003, WCLFR005, WCLFR006, WCLFR007, WCLFR009, WCLFR012, WCLFR014, and WCLFR015 were operating with an oxygen concentration above their respective 5% or 15% limits. All of these wells were back in compliance within the timeline specified in 8-34-414 or were taken offline pursuant to Condition Numbers 20754 Part 2(c)(iii), 25293 Part 7(b)(iii) and 25293 Part 7(c)(ii).

3.5.3 Temperature

BAAQMD Rule 8-34-305 requires the landfill gas temperature in each wellhead to measure less than 55 degrees Celsius (°C) or 131°F.

All wells were operating under the temperature limit of 131°F during the monitoring events conducted during the reporting period.

3.6 COVER INTEGRITY MONITORING

Under BAAQMD Rule 8-34-510 and the NSPS, the landfill surface must be monitored at least monthly for evidence of cracks or other surface integrity issues, which could allow for surface emissions. During the reporting period, cover integrity monitoring was conducted by SCSFS personnel in conjunction with the wellhead monitoring on the following dates:

- May 3, 6, 7, 12, 14, 20, 21, 27, and 28;
- June 3, 4, 7, 10, 16, 17, 21, 22, 24, 28, and 30;
- July 1, 2, 9, 12, 13, 14, 16, 19, 22, 26, and 30;
- August 3, 6, 11, 12, 18, 20, 23, 26, 27 and 30;
- September 1, 2, 7, 9, 10, 15, 16, 17, 20, 23, 28 and 29; and
- October 5, 6, 7, 11, 15, 20, 22, 25, 26, 29, and 30, 2021.

During the reporting period, the observations during these monthly monitoring events indicated the landfill surface was in good condition. In the event visual evidence suggested otherwise, the surface will be promptly repaired.

3.7 GAS GENERATION ESTIMATE AND MONTHLY LANDFILL GAS FLOW RATES

WCCSL is not subject to Rule 8-34-404 because the Landfill does not operate less than continuously. Therefore, monthly flow data are not required to be reported.

3.8 ANNUAL WASTE ACCEPTANCE RATE AND REFUSE IN PLACE

As of 2010, the WCCSL Class I and Class II Landfills are closed and no longer accept waste. The WIP in each landfill as of closure is approximately 376,110 tons and 12,330,387 tons, respectively.

3.8.1 Non-Degradable Waste Areas

No areas of non-degradable waste deposition are known to exist. There are no landfill areas that are excluded from the collection system requirements. Therefore, BAAQMD Regulation 8-34-501.8 is not applicable. A layer of MSW was placed in the Class I Hazardous Waste Material Facility (HWMF) landfill directly preceding closure in which the GCCS was installed; however, the waste below is generally considered non-degradable waste.

SECTION II. SSM PLAN REPORT

This Semi-Annual report also meets the requirements of the NESHAP for MSW landfills, 40 CFR 63, Subpart AAAA and complies with the requirements specified in WCCSL's Title V permit. This Semi-Annual report includes a certification signed by a Responsible Official which is provided in **Appendix A**. In accordance with the NESHAP for Landfills, this report is submitted semi-annually.

WCCSL maintains a SSM Plan which describes the procedures for operating and maintaining the affected elements of the GCCS during startup, shutdown, and malfunction (SSM). The SSM events that occurred during the reporting period of May 1, 2021 through September 26, 2021, as SSM recordkeeping and reporting requirements were no longer applicable after that, as the updated NESHAPs took effect on September 27, 2021, and are documented below.

- During the reporting period, the GCCS had eighteen (18) SSM events. Details of these events are included in **Table 1a**.
- During the reporting period, A-161 Flare had twenty (20) SSM events. Details of these events are included in **Table 1b**.
- During the reporting period, A-8 Flare had no SSM events. Details of these events are included in **Table 1c**.
- During the reporting period, eighty-one (81) SSM events occurred at the S-6 Engine. The S-5 and S-37 Engines did not operate during the reporting period. The S-6 Engine was shut down and restarted during the reporting period due to the reasons noted in the downtime logs provided in **Appendix C**.
- During the reporting period, five (5) wellfield SSM events occurred. In addition, there were nine (9) wells that went offline during previous reporting periods which remained offline during the entire reporting period. Details are included **Table 2**.
- During the reporting period, there were no SSM events associated with the LFG monitoring equipment (e.g. flow measuring/recording device, temperature measuring/recording device).
- In all events, automatic systems and operator actions were consistent with the standard operating procedures contained in the SSM Plan. There were no deviations from the SSM plan.
- Exceedances were not identified during the reporting period for any applicable emission limitation in the landfills NESHAP (§63.10(d)(5)(i)).
- Revisions of the SSM Plan to correct deficiencies in the landfill operations or procedures were neither required, nor prepared (§63.6(e)(3)(viii)).
- 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.

This report should be considered a closeout report for SSM requirements under NESHAP Subpart AAAA.

SECTION III. TITLE V SEMI-ANNUAL REPORT

As specified in 40 Code of Federal Regulation (CFR) Part 70, reports of any required monitoring must be submitted at least every 6 months. All instances of deviations from permit requirements for the semi-annual reporting period, specified in the Landfill's Title V Permit as November 1 through April 30 and May 1 through October 31, must be clearly identified in each report. This Title V Report covers the May 1, 2021 through October 31, 2021 reporting period.

This report has been prepared based on Part VII (Applicable Limits and Compliance Monitoring Requirements) of the Landfill's MFR Permit. The report includes a certification by a responsible official, consistent with §70.5(d).

The full Title V Semi-Annual Report, including certification by a responsible official, is provided as **Appendix E.**

Tables

Table 1a. GCCS Downtime West Contra Costa Sanitary Landfill, Richmond, California (May 1, 2021 through October 31, 2021)

GCCS Shutdown	Restarted	Downtime Hours	Reason for Downtime	Corrective Actions Taken
5/5/21 10:30	5/5/21 10:46	0.27	Utility outage (RCA submitted)	Flare was inspected and adjusted before returning to service once power was restored.
5/25/21 18:56	5/25/21 21:04	2.13	Utility outage (RCA submitted)	Flare was inspected and adjusted before returning to service once power was restored.
6/2/21 0:42	6/2/21 7:30	6.80	Utility outage (RCA submitted)	Flare was inspected and adjusted before returning to service once power was restored.
6/21/21 7:36	6/21/21 7:52	0.27	Blower inspection (113)	Planned shutdown for blower inspection and maintenance. Once flare maintenance activities were completed, flare was inspected and adjusted before returning to service and was restarted.
6/24/21 19:24	6/24/21 19:52	0.47	Utility outage (RCA submitted)	Flare was inspected and adjusted before returning to service once power was restored.
7/3/21 7:00	7/3/21 9:30	2.50	Low temp shut down, Knockout pot servicing (113)	Shutdown was pre-programmed to avoid non-compliance with temperature limit and for planned shutdown for knockout pot maintenance. Flare was inspected and adjusted before returning to service and was restarted.
7/9/21 3:42	7/9/21 8:50	5.13	Low temp shut down, condensate removal event (113)	Shutdown was pre-programmed to avoid non-compliance with temperature limit and planned shutdown for condensate maintenance. Flare was inspected and adjusted before returning to service and was restarted.
7/30/21 12:06	7/30/21 12:10	0.07	Blower inspection (113)	Planned shutdown for blower inspection and maintenance. Once flare maintenance activities were completed, flare was inspected and adjusted before returning to service and was restarted.
8/2/21 18:58	8/2/21 20:12	1.23	Low temp shut down, pre programmed parametric shut down (113)	Shutdown was pre-programmed to avoid non-compliance with temperature limit. Flare was inspected and adjusted before returning to service and was restarted.
8/11/21 13:38	8/11/21 15:12	1.57	Flare shut down to connect generator power (113)	Planned shutdown to connect flare to generator power. Once flare maintenance activities were completed, flare was inspected and adjusted before returning to service and was restarted.
8/27/21 8:36	8/27/21 8:48	0.20	Flare shut down to connect generator power (113)	Planned shutdown to connect flare to generator power. Once flare maintenance activities were completed, flare was inspected and adjusted before returning to service and was restarted.
8/30/21 7:28	8/30/21 8:04	0.60	Flare shut down to transfer to main grid (113)	Flare was inspected and adjusted before returning to service and was restarted.
9/18/21 23:34	9/19/21 7:26	7.87	Low temp Shut down pre programmed parametric shut down (113)	Shutdown was pre-programmed to avoid non-compliance with temperature limit. Flare was inspected and adjusted before returning to service and was restarted.
10/7/21 20:18	10/7/21 20:28	0.17	Utility outage (RCA submitted)	Flare was inspected and adjusted before returning to service once power was restored.
10/8/21 7:40	10/8/21 7:46	0.10	Flare inspection and maintenance following PG&E utility outage (113)	Flare was inspected and adjusted before returning to service once power was restored.
10/24/21 9:08	10/25/21 8:58	23.83	Utility outage (RCA submitted)	Flare was inspected and adjusted before returning to service once power was restored.
10/29/21 9:46	10/29/21 10:00	0.23	Engine Start Up/Flare Flame Failure (113)	Shutdown was pre-programmed to avoid non-compliance with temperature limit. Flare was inspected and adjusted before returning to service and was restarted.
10/30/21 12:04	10/30/21 12:58	0.90	Engine Start Up/Flare Flame Failure (113)	Shutdown was pre-programmed to avoid non-compliance with temperature limit. Flare was inspected and adjusted before returning to service and was restarted.
	Total:	54.33		

Notes:

Events in **bold type denotes malfunctions as defined in the SSM Plan/NESHAP Regulation**.

Downtimes listed represent periods when all landfill gas combustion devices were offline concurrently (no gas flow from the collection system).

All events listed involved inspection and/or maintenance activities prior to startup (or as soon as feasible following programmed startups) in accordance with Rule 8-34-113 requirements and the BAAQMD Compliance Advisory for Municipal Solid Waste Landfills, dated November 5, 2018, with the exception of the events that occurred on 5/5, 5/25, 6/2, 6/24, 10/7, and 10/24, which involved power outages. These events were considered reportable compliance activity (RCA) and breakdown relief was requested.

Table 1b. Flare (A-161) Downtime West Contra Costa Sanitary Landfill, Richmond, California (May 1, 2021 through October 31, 2021)

Shutdown	Startup	Downtime Hours	Reason for Downtime
5/5/21 10:30	5/5/21 10:46	0.27	Utility outage (RCA submitted)
5/25/21 18:56	5/25/21 21:04	2.13	Utility outage (RCA submitted)
6/2/21 0:42	6/2/21 7:30	6.80	Utility outage (RCA submitted)
6/17/21 11:36	6/17/21 11:42	0.10	Engine Start up (113)
6/21/21 7:36	6/21/21 7:54	0.30	Blower inspection (113)
6/24/21 19:24	6/24/21 19:52	0.47	Utility outage (RCA submitted)
7/3/21 7:00	7/3/21 9:30	2.50	Low temp shut down, Knockout pot servicing (113)
7/9/21 3:42	7/9/21 8:50	5.13	Low temp shut down, condensate removal event (113)
7/30/21 12:06	7/30/21 12:10	0.07	Blower inspection (113)
			Low temp shut down, pre programmed parametric shut down
8/2/21 18:58	8/2/21 20:12	1.23	(113)
8/11/2021 13:18	8/11/2021 15:12	1.90	Flare shut down to connect generator power (113)
8/12/2021 8:40	8/12/2021 9:34	0.90	Flare shut down to transfer to main grid (113)
8/27/2021 8:08	8/27/2021 8:48	0.67	Flare shut down to connect generator power (113)
8/30/2021 7:28	8/30/2021 8:04	0.60	Flare shut down to transfer to main grid (113)
9/18/2021 23:34	9/19/2021 7:26		Low temp Shut down pre programmed parametric shut down
		7.87	(113)
10/7/2021 20:18	10/7/2021 20:28	0.17	Utility outage (RCA submitted)
10/8/2021 7:38	10/8/2021 7:46		Flare inspection and maintenance following PG&E utility
		0.13	outage (113)
10/24/2021 9:08	10/25/2021 8:58	23.83	Utility outage (RCA submitted)
10/29/2021 9:46	10/29/2021 10:00	0.23	Engine Start Up/Flare Flame Failure (113)
10/30/2021 12:04	10/30/2021 12:58	0.90	Engine Start Up/Flare Flame Failure (113)
Tot		56.20	

Notes:

Events in bold type denotes malfunctions as defined in the SSM Plan/NESHAP Regulation.

All events listed involved inspection and/or maintenance activities prior to startup (or as soon as feasible following programmed startups) in accordance with Rule 8-34-113 requirements and the BAAQMD Compliance Advisory for Municipal Solid Waste Landfills, dated November 5, 2018, with the exception of the events that occurred on 5/5, 5/25, 6/2, 6/24, 10/7, and 10/24, which involved power outages. These events were considered reportable compliance activity (RCA) and breakdown relief was requested.

Table 1c. Backup Flare (A-8) Downtime West Contra Costa Sanitary Landfill, Richmond, California (May 1, 2021 through October 31, 2021)

Shutdown*	Startup*	Downtime Hours	Reason for Downtime
5/1/2021 0:00	11/1/2021 0:00	4416.00	Flare shutdown to remain as backup control device
Tot	al	4416.00	

Notes:

Events in bold type denotes malfunctions as defined in the SSM Plan/NESHAP Regulation (none occurred during the reporting period). All events listed involved inspection and/or maintenance activities prior to startup (or as soon as feasible following programmed startups) in accordance with Rule 8-34-113 requirements and the BAAQMD Compliance Advisory for Municipal Solid Waste Landfills, dated November 5,

accordance with 2018.

*The A-8 backup flare was offline at the beginning and end of the reporting period. For reporting purposes, the shutdown is calculated as beginning on May 1, 2021 at 00:00 and ending on November 1, 2021 at 00:00, respectively.

Table 2. Individual Well Startups, Shutdowns and Decommissions West Contra Costa Sanitary Landfill, Richmond, California (May 1, 2021 through October 31, 2021)

Well ID	Shutdown	Start-up	Days Offline	Reason for Shutdown/Startup				
	Wells in Class I Landfill Wellfield							
WCLFR016*	11/23/20 10:24	Ongoing	Ongoing	Well was temporarily disconnected pursuant to Condition Number 20754 Part 2(c)(iii)				
WCLFR012*	5/12/21 13:48	Ongoing	Ongoing	Well was temporarily disconnected pursuant to Condition Number 20754 Part 2(c)(iii)				
WCLFR015*	3/15/21 12:46	Ongoing	Ongoing	Well was temporarily disconnected pursuant to Condition Number 20754 Part 2(c)(iii)				
WCLFR007*	5/12/21 12:53	Ongoing	Ongoing	Well was temporarily disconnected pursuant to Condition Number 20754 Part 2(c)(iii)				
		V	ells in Class II Lan	dfill Wellfield				
WCLFH09B*	10/29/19 8:45	Ongoing	Ongoing	Well was temporarily disconnected pursuant to Condition Number 25293 Part 7(c)(ii)				
WCLFH02A*	11/4/19 9:40	Ongoing	Ongoing	Well was temporarily disconnected pursuant to Condition Number 25293 Part 7(c)(ii)				
WCLFH04B	3/3/20 11:55	5/12/21 18:11	435.3	Well was temporarily disconnected pursuant to Condition Number 25293 Part 7(c)(ii)				
WCLFH03B*	5/5/20 12:16	Ongoing	Ongoing	Well was temporarily disconnected pursuant to Condition Number 25293 Part 7(c)(ii)				
WCLFH03A*	9/11/20 11:01	Ongoing	Ongoing	Well was temporarily disconnected pursuant to Condition Number 25293 Part 7(c)(ii)				
WCLF0835*	9/25/20 11:05	Ongoing	Ongoing	Well was temporarily disconnected pursuant to Condition Number 25293 Part 7(a)				
WCLFH04A*	4/29/21 18:31	NA	Ongoing	Temporarily disconnected pursuant to Condition Number 25293 Part 7(c)(ii)				
WCLFH04B*	5/20/21 12:06	NA	Ongoing	Temporarily disconnected pursuant to Condition Number 25293 Part 7(c)(ii)				
WCLF0515	7/2/21	NA	NA	Vertical Well Decommissioned due to Poor Gas Quality				
WCLFH01A*	7/12/21 17:06	Ongoing	Ongoing	Temporarily disconnected pursuant to Condition Number 25293 Part 7(c)(ii)				

Note: All well downtime events listed are consistent with applicable Rule 8-34 provisions and BAAQMD permit conditions.

*These wells were offline at the end of the reporting period. For reporting purposes, the shutdown is calculated as ending on November 1, 2021 at 00:00.

Table 3. Wells with Positive Pressure West Contra Costa Sanitary Landfill, Richmond, California (May 1, 2021 through October 31, 2021)

Well ID	Date and Time	Initial Static Pressure ("H ₂ O)	Adjusted Static Pressure ("H ₂ O)	Comments
WCLF0519	9/7/2021 11:59	16.34	16.34	Adjusted Valve
WCLF0519	9/7/2021 12:01	16.11	16.12	Second Reading
WCLF0519	9/23/2021 12:07	17.11	17.11	Adjusted Valve
WCLF0519	9/23/2021 12:08	16.85	16.88	Second Reading
WCLF0519	10/5/2021 8:59	16.37	-0.89	Adjusted Valve, In Compliance
WCLF0835	5/6/2021 12:33	0.04	0.04	Adjusted Valve
WCLF0835	5/21/2021 10:20	-0.12	-0.11	In Compliance
WCLF0835	6/10/2021 13:41	0.01	-2.55	Adjusted Valve, In Compliance
WCLF0839	9/15/2021 11:03	1.29	1.31	Adjusted Valve
WCLF0839	9/15/2021 11:04	1.35	1.35	Second Reading
WCLF0839	9/17/2021 12:58	1.42	-0.06	Adjusted Valve, In Compliance
WCLF0844	9/17/2021 12:47	1.11	-3.11	Adjusted Valve, In Compliance
WCLF0850	9/2/2021 13:18	0.04	-0.11	Adjusted Valve, In Compliance
WCLF0851	9/15/2021 11:26	0.14	0.15	Adjusted Valve
WCLF0851	9/15/2021 11:28	0.19	0.21	Second Reading
WCLF0851	9/17/2021 13:07	0.09	-0.55	Adjusted Valve, In Compliance
WCLF0856	9/2/2021 12:57	0.22	-0.07	Adjusted Valve, In Compliance
WCLFH01A	7/22/2021 16:49	0.04	0.04	Adjusted Valve
WCLFH01A	7/22/2021 16:51	0.01	0.02	Second Reading
WCLFH01A	8/11/2021 11:26	-0.72	-0.7	In Compliance
WCLFH02A	6/10/2021 12:49	0.05	0.05	Adjusted Valve
WCLFH02A	6/10/2021 12:50	0.07	0.08	Second Reading
WCLFH02A	6/30/2021 9:28	-0.23	-0.23	In Compliance
WCLFH02A	7/12/2021 17:36	0.07	0.07	Adjusted Valve
WCLFH02A	7/12/2021 17:39	0.01	-0.04	Adjusted Valve, In Compliance
WCLFH02A	7/22/2021 17:02	0.02	0.05	Adjusted Valve
WCLFH02A	7/22/2021 17:03	0.07	0.09	Second Reading
WCLFH02A	8/11/2021 11:57	-0.51	-0.48	In Compliance
WCLFH03A	6/10/2021 13:04	0.01	0.01	Adjusted Valve
WCLFH03A	6/10/2021 13:05	-0.03	-0.02	Adjusted Valve, In Compliance
WCLFH03A	7/22/2021 17:10	0.18	0.18	Adjusted Valve
WCLFH03A	7/22/2021 17:12	0.06	0.09	Second Reading
WCLFH03A	8/3/2021 16:19	-0.01	-0.01	In Compliance

Table 3. Wells with Positive Pressure West Contra Costa Sanitary Landfill, Richmond, California (May 1, 2021 through October 31, 2021)

Well ID	Date and Time	Initial Static Pressure ("H ₂ O)	Adjusted Static Pressure ("H ₂ O)	Comments
WCLFH03B	6/10/2021 10:43	-2.56	0.01	Adjusted Valve
WCLFH03B	6/10/2021 10:44	-0.03	-0.03	In Compliance
WCLFH03B	6/24/2021 17:49	-0.01	0.02	Adjusted Valve
WCLFH03B	7/12/2021 12:13	-1.39	-0.21	In Compliance
WCEITIOSD	//12/2021 12:13	-1.55	-0.21	in compliance
WCLFH03B	7/22/2021 15:51	0.01	0.01	Adjusted Valve
WCLFH03B	8/3/2021 15:58	0.02	0	Second Reading
WCLFH03B	8/3/2021 16:00	0.04	0.04	Adjusted Valve
WCLFH03B	8/18/2021 13:00	-1.28	-0.63	In Compliance
WCLFH04A	6/7/2021 16:41	0.08	0.09	Adjusted Valve
WCLFH04A	6/7/2021 16:44	0.08	0.05	Second Reading
				<u> </u>
WCLFH04A	6/30/2021 9:57	-0.25	-0.25	In Compliance
WCLFH04A	7/22/2021 17:19	0.04	0.04	Adjusted Valve
WCLFH04A	7/22/2021 17:21	0.03	0.02	Second Reading
WCLFH04A	8/11/2021 9:40	-0.32	-0.3	In Compliance
WCLFH04A	9/15/2021 10:01	0.51	0.57	Adjusted Valve
WCLFH04A	9/15/2021 10:02	0.38	0.39	Second Reading
WCLFH04A	9/29/2021 9:35	-0.35	-0.31	In Compliance
WCLFH04B	7/12/2021 12:01	0.14	0.14	Adjusted Valve
WCLFH04B	7/12/2021 12:03	-0.1	-0.09	In Compliance
WCLFH04B	7/26/2021 15:26	0.17	0.16	Adjusted Valve
WCLFH04B	7/26/2021 15:28	0.06	0.07	Second Reading
WCLFH04B	8/11/2021 11:01	-1.59	-0.99	In Compliance
WCLFH05A	9/15/2021 10:06	0.23	0.23	Adjusted Valve
WCLFH05A	9/15/2021 10:07	0.27	0.27	Second Reading
WCLFH05A	9/29/2021 9:39	-0.63	-0.62	In Compliance
WCLFH06B	7/26/2021 15:39	0.13	0.13	Adjusted Valve
WCLFH06B	7/26/2021 15:41	0.01	0.02	Second Reading
WCLFH06B	8/11/2021 10:45	-0.47	-0.42	In Compliance
WCLFH07A	7/22/2021 17:37	-0.14	0.03	Adjusted Valve
WCLFH07A	7/22/2021 17:38	0.05	0.06	Second Reading
WCLFH07A	8/3/2021 16:30	-0.04	-0.1	In Compliance
	· ·			•
WCLFH07B	9/2/2021 16:03	0.39	-1.14	Adjusted Valve, In Compliance
WCLFH07B	9/2/2021 16:07	0.3	0.31	Adjusted Valve
	9/29/2021 12:34	-0.11	-0.08	In Compliance

Table 3. Wells with Positive Pressure West Contra Costa Sanitary Landfill, Richmond, California (May 1, 2021 through October 31, 2021)

Well ID	Date and Time	Initial Static Pressure ("H ₂ O)	Adjusted Static Pressure ("H ₂ O)	Comments
WCLFH08A	7/22/2021 17:41	0.01	0.01	Adjusted Valve
WCLFH08A	7/22/2021 17:42	0.02	0.03	Second Reading
WCLFH08A	8/3/2021 16:34	-0.01	-0.02	In Compliance
WCLFH08B	6/10/2021 14:38	0.04	0.05	Adjusted Valve
WCLFH08B	6/28/2021 18:37	-0.02	-1.8	In Compliance
WCLFH09B	6/10/2021 14:46	0.06	0.06	Adjusted Valve
WCLFH09B	6/10/2021 14:47	0.09	0.09	Second Reading
WCLFH09B	6/28/2021 18:46	-0.06	-0.02	In Compliance
WCLFH09B	7/13/2021 12:43	0.09	0.1	Adjusted Valve
WCLFH09B	7/13/2021 12:44	0.12	0.13	Second Reading
WCLFH09B	7/19/2021 17:03	0.03	0.06	Adjusted Valve
WCLFH09B	7/19/2021 17:04	0.03	0.06	Second Reading
WCLFH09B	8/12/2021 11:00	-0.14	-0.09	In Compliance
WCLFH10A	7/22/2021 17:57	-0.48	0.01	Adjusted Valve
WCLFH10A	7/22/2021 17:59	0.09	0.07	Second Reading
WCLFH10A	8/12/2021 11:23	-0.05	-0.02	In Compliance
WCLFH10B	9/2/2021 15:48	0.44	0.41	Adjusted Valve
WCLFH10B	9/2/2021 15:50	-0.37	-0.37	In Compliance

Note: All required corrective action and remonitoring was completed in accordance with Rule 8-34 and NSPS timelines.

Well ID	Date and Time	Oxygen (%)	Comments
WCLF0501	10/6/2021 10:45	6.6	Adjusted Valve
WCLF0501	10/6/2021 10:47	9.8	Second Reading
WCLF0501	10/20/2021 12:29	12.2	Adjusted Valve
WCLF0501	10/20/2021 12:31	0.2	In Compliance
WCLF0503	10/20/2021 13:18	10.8	Adjusted Valve
WCLF0503	10/20/2021 13:20	17	Second Reading
WCLF0503	10/29/2021 10:30	6.8	Adjusted Valve
WCLF0503	10/29/2021 10:32	4.6	In Compliance
WCLF0515	5/3/2021 15:52	20.7	Adjusted Valve
WCLF0515	5/3/2021 15:55	20.7	Second Reading
WCLF0515	5/20/2021 8:08	18.6	Adjusted Valve
WCLF0515	5/20/2021 8:10	20	Second Reading
WCLF0515	5/28/2021 15:13	14.7	Adjusted Valve
WCLF0515	5/28/2021 15:19	19.6	Second Reading
WCLF0515	6/4/2021 8:57	16.7	Adjusted Valve
WCLF0515	6/4/2021 8:59	16.5	Second Reading
WCLF0515	6/28/2021 11:21	10.7	Adjusted Valve
WCLF0515	6/28/2021 11:23	11.3	Second Reading
WCLF0515	7/2/2021 12:00	17	Adjusted Valve
WCLF0515	7/2/2021 12:01	17	Decommissioned due to Poor Gas Quality
WCLF0517	8/26/2021 12:49	7.7	Adjusted Valve
WCLF0517	8/26/2021 12:50	6.2	Second Reading
WCLF0517	9/2/2021 8:57	6.5	Adjusted Valve
WCLF0517	9/2/2021 8:59	4	In Compliance
	0/07/0004 40 04	10.6	
WCLF0519	8/27/2021 12:34	10.6	Adjusted Valve
WCLF0519	8/27/2021 12:36	10.6	Second Reading
WCLF0519	9/2/2021 9:44	11.5	Adjusted Valve
WCLF0519	9/2/2021 9:46	19	Second Reading
WCLF0519	9/7/2021 11:59	0	In Compliance
		40.0	
WCLF0520	8/26/2021 14:09	10.3	Adjusted Valve
WCLF0520	8/26/2021 14:10	7.7	Second Reading
WCLF0520	9/2/2021 9:30	4.3	In Compliance
	7/22/2024 45 50	<u> </u>	A disease of No. 1
WCLF0602	7/22/2021 15:58	6.8	Adjusted Valve
WCLF0602	7/22/2021 15:59	6.6	Second Reading
WCLF0602	8/3/2021 16:08	0.7	In Compliance

Well ID	Date and Time	Oxygen (%)	Comments
WCLF0602	8/27/2021 14:01	17.4	Adjusted Valve
WCLF0602	8/27/2021 14:02	15.3	Second Reading
WCLF0602	9/7/2021 13:23	11.1	Adjusted Valve
WCLF0602	9/7/2021 13:24	9.3	Second Reading
WCLF0602	9/29/2021 11:59	14.3	Adjusted Valve
WCLF0602	9/29/2021 12:00	11.8	Second Reading
WCLF0602	10/5/2021 10:26	10.9	Adjusted Valve
WCLF0602	10/5/2021 10:27	20.3	Second Reading
WCLF0602	10/29/2021 10:55	11.7	Adjusted Valve
WCLF0602	10/29/2021 10:56	12.3	Second Reading
WCLF0603	7/22/2021 15:42	5.4	Adjusted Valve
WCLF0603	7/22/2021 15:44	5.3	Second Reading
WCLF0603	8/3/2021 15:56	0.5	In Compliance
WCLF0603	8/27/2021 13:52	7.2	Adjusted Valve
WCLF0603	8/27/2021 13:53	8.3	Second Reading
WCLF0603	9/7/2021 13:50	4.4	In Compliance
WCLF0603	10/6/2021 11:56	17.1	Adjusted Valve
WCLF0603	10/6/2021 11:58	12.4	Second Reading
WCLF0603	10/20/2021 12:27	2	In Compliance
WCLF0606	5/7/2021 10:25	20.8	Adjusted Valve
WCLF0606	5/7/2021 10:27	20.8	Second Reading
WCLF0606	5/14/2021 11:59	19.3	Adjusted Valve
WCLF0606	5/14/2021 12:01	19.1	Second Reading
WCLF0606	5/21/2021 13:43	18.3	Adjusted Valve
WCLF0606	5/21/2021 13:45	18.4	Second Reading
WCLF0606	5/28/2021 14:44	19.8	Adjusted Valve
WCLF0606	5/28/2021 14:48	20.3	Second Reading
WCLF0606	6/7/2021 16:25	17	Adjusted Valve
WCLF0606	6/7/2021 16:27	16.9	Second Reading
WCLF0606	6/17/2021 10:08	19	Adjusted Valve
WCLF0606	6/17/2021 10:10	14.9	Second Reading
WCLF0606	7/2/2021 12:40	19.7	Adjusted Valve
WCLF0606	7/2/2021 12:42	0.2	In Compliance
WCLF0606	9/20/2021 10:16	18.2	Adjusted Valve
WCLF0606	9/20/2021 10:17	18.7	Second Reading
WCLF0606	9/29/2021 13:08	17.5	Adjusted Valve
WCLF0606	9/29/2021 13:09	18.5	Second Reading
WCLF0606	10/5/2021 11:50	20.9	Adjusted Valve

Well ID	Date and Time	Oxygen (%)	Comments
WCLF0606	10/5/2021 11:51	20.9	Second Reading
WCLF0606	10/20/2021 13:00	18	Adjusted Valve
WCLF0607	5/14/2021 11:52	19.9	(Initial Exceedance on 3/4) Adjusted Valve
WCLF0607	5/14/2021 11:55	19.3	Second Reading
WCLF0607	5/21/2021 13:34	20.8	Adjusted Valve
WCLF0607	5/21/2021 13:34	20.8	Second Reading
WCLF0607	5/21/2021 13:34	20.8	Third Reading
WCLF0607	5/21/2021 13:35	20.7	Fourth Reading
WCLF0607	6/7/2021 16:19	20	Adjusted Valve
WCLF0607	6/7/2021 16:20	19.4	Second Reading
WCLF0607	6/17/2021 10:03	15.9	Adjusted Valve
WCLF0607	6/17/2021 10:04	13.2	Second Reading
WCLF0607	7/2/2021 12:30	19.8	Adjusted Valve
WCLF0607	7/2/2021 12:34	0.2	In Compliance
WCLF0803	5/6/2021 11:13	6.5	Adjusted Valve
WCLF0803	5/6/2021 11:15	7.4	Second Reading
WCLF0803	5/20/2021 15:53	8.5	Adjusted Valve
WCLF0803	5/20/2021 15:53	8.5	Second Reading
WCLF0803	5/20/2021 15:54	8.6	Third Reading
WCLF0803	5/20/2021 15:54	8.6	Fourth Reading
WCLF0803	6/10/2021 14:49	10.5	Adjusted Valve
WCLF0803	6/10/2021 14:51	10.6	Second Reading
WCLF0803	6/28/2021 18:50	1.9	In Compliance
WCLF0806	8/27/2021 12:14	10.5	Adjusted Valve
WCLF0806	8/27/2021 12:16	7.3	Second Reading
WCLF0806	9/2/2021 9:12	9.5	Adjusted Valve
WCLF0806	9/2/2021 9:14	9.3	Second Reading
WCLF0806	9/29/2021 10:20	0	In Compliance
WCLF0810	8/26/2021 13:20	12.7	Adjusted Valve
WCLF0810	8/26/2021 13:21	10.7	Second Reading
WCLF0810	9/2/2021 8:33	0	In Compliance
WCLF0810	10/20/2021 12:46	18.7	Adjusted Valve
WCLF0810	10/20/2021 12:47	19.5	Second Reading
WCLF0810	10/25/2021 13:27	0	In Compliance
WCLF0812	10/29/2021 10:11	13.5	Adjusted Valve
WCLF0812	10/29/2021 10:13	13.6	Second Reading

Well ID	Date and Time	Oxygen (%)	Comments
WCLF0815	8/27/2021 12:55	5.9	Adjusted Valve
WCLF0815	8/27/2021 12:56	4.1	In Compliance
WCLF0820	10/20/2021 13:03	19.4	Adjusted Valve
WCLF0820	10/20/2021 13:04	19.9	Second Reading
WCLF0820	10/25/2021 13:20	0	In Compliance
WCLF0821	5/14/2021 12:11	5.6	Adjusted Valve
WCLF0821	5/14/2021 12:11	5.6	Second Reading
WCLF0821	5/14/2021 12:12	5.6	Third Reading
WCLF0821	5/20/2021 16:35	0.3	In Compliance
WCLF0821	6/10/2021 8:57	7.7	Adjusted Valve
WCLF0821	6/10/2021 8:57	7.7	Second Reading
WCLF0821	6/10/2021 8:57	7.7	Third Reading
WCLF0821	6/10/2021 8:57	7.7	Fourth Reading
WCLF0821	6/10/2021 9:02	7.6	Fifth Reading
WCLF0821	6/17/2021 10:22	2.2	In Compliance
			·
WCLF0821	7/2/2021 13:08	6.8	Adjusted Valve
WCLF0821	7/2/2021 13:10	6.8	Second Reading
WCLF0821	7/9/2021 14:28	6.4	Adjusted Valve
WCLF0821	7/26/2021 14:09	8.3	Adjusted Valve
WCLF0821	7/26/2021 14:11	8.4	Second Reading
WCLF0821	8/3/2021 14:51	2.7	In Compliance
WCLF0821	8/10/2021 12:48	7.9	Adjusted Valve
WCLF0821	8/10/2021 12:50	10	Second Reading
WCLF0821	8/18/2021 13:12	9.9	Adjusted Valve
WCLF0821	9/2/2021 10:07	9.9	Adjusted Valve
WCLF0821	9/2/2021 10:09	8.6	Second Reading
WCLF0821	9/20/2021 10:35	1.1	In Compliance
WCLF0821	10/6/2021 12:04	13.5	Adjusted Valve
WCLF0821	10/6/2021 12:06	12.2	Second Reading
WCLF0821	10/20/2021 12:39	16.9	Adjusted Valve
WCLF0821	10/20/2021 12:46	8.1	Second Reading
WCLF0821	10/20/2021 12:46	8.1	Third Reading
			-
WCLF0826	5/21/2021 11:39	12.4	Adjusted Valve
WCLF0826	5/21/2021 11:41	12.4	Second Reading
WCLF0826	6/4/2021 15:10	3.4	In Compliance

Well ID	Date and Time	Oxygen (%)	Comments
WCLF0826	10/25/2021 11:00	8.1	Adjusted Valve
WCLF0826	10/25/2021 11:01	8.1	Second Reading
WCLF0827	9/29/2021 9:17	18.9	Adjusted Valve
WCLF0827	9/29/2021 9:19	19.4	Second Reading
WCLF0827	10/5/2021 13:25	0.1	In Compliance
WCLF0827	10/25/2021 11:04	19.6	Adjusted Valve
WCLF0827	10/25/2021 11:05	19.9	Second Reading
WCLF0832	5/6/2021 15:41	12.7	(Initial Reading 4/26/21) Adjusted Valve
WCLF0832	5/6/2021 15:43	11.6	Second Reading
WCLF0832	5/21/2021 15:02	0	In Compliance
WCLF0832	6/4/2021 14:39	19.4	Adjusted Valve
WCLF0832	6/4/2021 14:40	19.3	Second Reading
WCLF0832	6/10/2021 15:33	19.6	Adjusted Valve
WCLF0832	6/10/2021 15:36	19.6	Second Reading
WCLF0832	6/17/2021 11:22	19.2	Adjusted Valve
WCLF0832	6/17/2021 11:24	19.4	Second Reading
WCLF0832	7/2/2021 14:07	20.4	Adjusted Valve
WCLF0832	7/2/2021 14:10	20.8	Second Reading
WCLF0832	7/26/2021 13:15	0	In Compliance
WCLF0832	8/3/2021 14:05	19.9	Adjusted Valve
WCLF0832	8/3/2021 14:13	20.4	Second Reading
WCLF0832	8/3/2021 14:15	19.9	Third Reading
WCLF0832	8/18/2021 13:30	19.8	Adjusted Valve
WCLF0832	8/18/2021 13:30	19.8	Second Reading
WCLF0832	9/2/2021 14:10	21	Adjusted Valve
WCLF0832	9/2/2021 14:12	21	Second Reading
WCLF0832	9/20/2021 11:54	0	In Compliance
WCLF0833	6/30/2021 10:21	8	Adjusted Valve
WCLF0833	6/30/2021 10:23	11.2	Second Reading
WCLF0833	7/9/2021 14:15	0.1	In Compliance
WCLF0833	8/12/2021 11:53	9.8	Adjusted Valve
WCLF0833	8/12/2021 11:54	9.8	Second Reading
WCLF0833	8/18/2021 11:57	12.2	Adjusted Valve
WCLF0833	9/7/2021 12:46	4.9	In Compliance

Well ID	Date and Time	Oxygen (%)	Comments
WCLF0833	10/6/2021 8:54	8.5	Adjusted Valve
WCLF0833	10/6/2021 8:55	4	In Compliance
WCLF0835	5/6/2021 12:31	19.5	Adjusted Valve
WCLF0835	5/6/2021 12:33	19.5	Second Reading
WCLF0835	5/21/2021 10:20	20.6	Adjusted Valve
WCLF0835	5/21/2021 10:22	20.5	Second Reading
WCLF0835	6/10/2021 13:41	11.9	Adjusted Valve
WCLF0835	6/10/2021 13:44	12.7	Second Reading
WCLF0835	6/30/2021 10:55	20.9	Adjusted Valve
WCLF0835	6/30/2021 10:56	21.2	Second Reading
WCLF0835	7/13/2021 13:31	20.4	Adjusted Valve
WCLF0835	7/13/2021 13:34	20.6	Second Reading
WCLF0835	7/26/2021 9:42	20.4	Adjusted Valve
WCLF0835	7/26/2021 9:44	20.6	Second Reading
WCLF0835	8/12/2021 11:28	19.8	Adjusted Valve
WCLF0835	8/12/2021 11:29	20.5	Second Reading
WCLF0835	8/27/2021 13:22	20	Adjusted Valve
WCLF0835	8/27/2021 13:23	20.3	Second Reading
WCLF0835	9/7/2021 12:57	18.6	Well was temporarily taken offline pursuant to Condition Number 25293 Part 7(b)
WCLF0839	5/21/2021 15:21	6.5	Adjusted Valve
WCLF0839	5/21/2021 15:22	6.8	Second Reading
WCLF0839	6/4/2021 14:15	20.1	Adjusted Valve
WCLF0839	6/4/2021 14:17	13.1	Second Reading
WCLF0839	6/28/2021 12:17	8	Adjusted Valve
WCLF0839	6/28/2021 12:20	7.9	Second Reading
WCLF0839	7/13/2021 16:22	0.1	In Compliance
WCLF0839	7/26/2021 12:18	8.6	Adjusted Valve
WCLF0839	7/26/2021 12:24	8.5	Second Reading
WCLF0839	8/3/2021 13:10	7.3	Adjusted Valve
WCLF0839	8/3/2021 13:14	3.6	In Compliance
WCLF0839	9/1/2021 14:09	20.6	Adjusted Valve
WCLF0839	9/1/2021 14:12	20.6	Second Reading
WCLF0839	9/15/2021 11:03	0	In Compliance
WCLF0844	9/1/2021 14:58	20.3	Adjusted Valve
WCLF0844	9/1/2021 15:00	20.7	Second Reading
WCLF0844	9/15/2021 11:16	0	In Compliance

Well ID	Date and Time	Oxygen (%)	Comments
WCLF0844	10/6/2021 11:52	5.4	Adjusted Valve
WCLF0844	10/6/2021 11:53	4.6	In Compliance
WCLF0845	8/27/2021 14:47	11.1	Adjusted Valve
WCLF0845	8/27/2021 14:48	10.2	Second Reading
WCLF0845	9/1/2021 15:09	6.5	Adjusted Valve
WCLF0845	9/1/2021 15:11	7.2	Second Reading
WCLF0845	9/29/2021 11:03	0	In Compliance
WCLF0846	8/27/2021 14:42	6.7	Adjusted Valve
WCLF0846	8/27/2021 14:44	6.2	Second Reading
WCLF0846	9/1/2021 15:16	2.4	In Compliance
WCLF0851	9/2/2021 13:27	8.9	Adjusted Valve
WCLF0851	9/2/2021 13:30	10.1	Second Reading
WCLF0851	9/15/2021 11:26	0	In Compliance
WCLF0855	9/2/2021 12:47	19.9	Adjusted Valve
WCLF0855	9/2/2021 12:50	9.2	Second Reading
WCLF0855	9/15/2021 11:32	0	In Compliance
WCLF0860	7/12/2021 9:27	5.4	Adjusted Valve
WCLF0860	7/12/2021 9:30	7.1	Second Reading
WCLF0860	7/26/2021 8:55	2.7	In Compliance
WCLF519D	8/27/2021 12:39	5.2	Adjusted Valve
WCLF519D	8/27/2021 12:41	3.9	In Compliance
WCLF601D	8/27/2021 14:14	12.2	Adjusted Valve
WCLF601D	8/27/2021 14:16	9.8	Second Reading
WCLF601D	9/7/2021 13:28	0	In Compliance
WCLFH01A	5/12/2021 18:56	20.4	(Initial Exceedance 4/12/2021) Adjusted
WCLFHUIA	5/12/2021 18.50	20.4	Valve
WCLFH01A	5/12/2021 19:00	20.9	Second Reading
WCLFH01A	5/21/2021 11:47	16.7	Adjusted Valve
WCLFH01A	5/21/2021 11:50	16.7	Second Reading
WCLFH01A	6/10/2021 11:18	17.1	Adjusted Valve
WCLFH01A	6/10/2021 11:20	17	Second Reading
WCLFH01A	6/30/2021 9:40	20	Adjusted Valve
WCLFH01A	6/30/2021 9:41	20.6	Second Reading
WCLFH01A	7/12/2021 17:06	18.5	Well was temporarily taken offline pursuant to Condition Number 25293 Part 7(c)(iii)

Well ID	Date and Time	Oxygen (%)	Comments
			(Initial Exceedance 4/19/2021) In
WCLFH01B	5/12/2021 18:40	12.3	Compliance
WCLFH01B	6/10/2021 11:00	18	Adjusted Valve
WCLFH01B	6/10/2021 11:01	18	Second Reading
WCLFH01B	6/24/2021 17:54	1.6	In Compliance
WCLFH01B	8/27/2021 14:20	16.2	Adjusted Valve
WCLFH01B	8/27/2021 14:22	16.9	Second Reading
WCLFH01B	9/2/2021 16:54	20.1	Adjusted Valve
WCLFH01B	9/29/2021 11:56	14	In Compliance
WCLFH01B	9/29/2021 11:57	16.5	Adjusted Valve
WCLFH01B	9/29/2021 13:03	14	In Compliance
WCLFH03A	5/7/2021 10:54	20.1	Adjusted Valve
WCLFH03A	5/7/2021 10:55	20.1	Second Reading
WCLFH03A	5/21/2021 11:00	20.9	Adjusted Valve
WCLFH03A	5/21/2021 11:01	20.9	Second Reading
WCLFH03A	6/10/2021 13:04	19.9	Adjusted Valve
WCLFH03A	6/10/2021 13:05	19.9	Second Reading
WCLFH03A	6/30/2021 12:39	20.4	Adjusted Valve
WCLFH03A	6/30/2021 12:40	20.6	Second Reading
WCLFH03A	7/12/2021 17:50	14.7	In Compliance
WCLFH03A	7/22/2021 17:10	20.5	Adjusted Valve
WCLFH03A	7/22/2021 17:12	20.5	Second Reading
WCLFH03A	8/3/2021 16:19	12.3	In Compliance
WCLFH03A	8/26/2021 12:00	16.8	Adjusted Valve
WCLFH03A	8/26/2021 12:01	16.8	Second Reading
WCLFH03A	9/10/2021 7:23	19	Adjusted Valve
WCLFH03A	9/10/2021 7:24	19.2	Second Reading
WCLFH03A	9/29/2021 9:27	19.5	Adjusted Valve
WCLFH03A	9/29/2021 9:28	19.8	Second Reading
WCLFH03A	10/6/2021 8:29	15.9	Adjusted Valve
WCLFH03A	10/25/2021 11:16	3.8	In Compliance
WCLFH05A	5/6/2021 13:03	20.2	(Initial Exceedance 4/8) Adjusted Valve
WCLFH05A	5/6/2021 13:05	20.5	Second Reading
WCLFH05A	5/21/2021 10:41	20.9	Adjusted Valve

Well ID	Date and Time	Oxygen (%)	Comments
WCLFH05A	5/21/2021 10:44	20.9	Second Reading
WCLFH05A	6/10/2021 13:10	20.5	Adjusted Valve
WCLFH05A	6/10/2021 13:11	20.6	Second Reading
WCLFH05A	6/30/2021 10:13	20.7	Adjusted Valve
WCLFH05A	6/30/2021 10:14	21.3	Second Reading
WCLFH05A	7/13/2021 15:59	5.3	In Compliance
WCLFH05A	7/22/2021 17:27	18.1	Adjusted Valve
WCLFH05A	7/22/2021 17:28	17.7	Second Reading
WCLFH05A	8/3/2021 16:25	15.7	Adjusted Valve
WCLFH05A	8/3/2021 16:26	15.6	Second Reading
WCLFH05A	8/18/2021 12:02	20.8	Adjusted Valve
WCLFH05A	9/15/2021 10:06	18.9	Adjusted Valve
WCLFH05A	9/15/2021 10:07	18.9	Second Reading
WCLFH05A	9/29/2021 9:39	20.1	Adjusted Valve
WCLFH05A	9/29/2021 9:40	20.2	Second Reading
WCLFH05A	10/6/2021 8:41	19.4	Adjusted Valve
WCLFH05A	10/6/2021 8:43	20.7	Second Reading
WCLFH05A	10/25/2021 11:28	12.2	In Compliance
WCLFH05A	10/25/2021 11:29	16.6	Adjusted Valve
WCLFH05A	10/30/2021 13:20	17.5	Adjusted Valve
WCLFH05A	10/30/2021 13:23	17	Second Reading
WCLFH05B	5/7/2021 10:18	17.6	(Initial Exceedance 4/26) Adjusted Valve
WCLFH05B	5/7/2021 10:20	17.6	Second Reading
WCLFH05B	5/20/2021 11:45	16.8	Adjusted Valve
WCLFH05B	6/10/2021 9:55	18.7	Adjusted Valve
WCLFH05B	6/10/2021 9:57	18.6	Second Reading
WCLFH05B	6/17/2021 12:17	2.3	In Compliance
WCLFH05B	7/12/2021 11:09	17.3	Adjusted Valve
WCLFH05B	7/12/2021 11:13	18	Second Reading
WCLFH05B	7/26/2021 15:33	20.5	Adjusted Valve
WCLFH05B	7/26/2021 15:36	20.2	Second Reading
WCLFH05B	8/11/2021 10:47	18.9	Adjusted Valve
WCLFH05B	8/11/2021 10:49	19.7	Second Reading
WCLFH05B	8/26/2021 9:46	18	Adjusted Valve
WCLFH05B	8/26/2021 9:47	18.5	Second Reading
WCLFH05B	9/2/2021 17:10	20.8	Adjusted Valve
WCLFH05B	9/23/2021 10:03	18.2	Adjusted Valve
WCLFH05B	9/23/2021 10:04	18.7	Second Reading

Well ID	Date and Time	Oxygen (%)	Comments
WCLFH05B	10/6/2021 8:32	19.2	Adjusted Valve
WCLFH05B	10/6/2021 8:34	20.1	Second Reading
WCLFH05B	10/22/2021 10:58	19.5	Adjusted Valve
WCLFH05B	10/22/2021 10:59	19.9	Second Reading
WCLFH06A	6/30/2021 10:18	7.8	Adjusted Valve
WCLFH06A	7/9/2021 14:17	3.6	In Compliance
WCLFH06A	10/6/2021 8:50	11.1	Adjusted Valve
WCLFH06A	10/25/2021 11:32	0.1	In Compliance
WCLFH07A	5/6/2021 12:43	18.1	Adjusted Valve
WCLFH07A	5/6/2021 12:45	18	Second Reading
WCLFH07A	5/20/2021 16:09	0	In Compliance
WCLFH07A	7/22/2021 17:37	19.4	Adjusted Valve
WCLFH07A	7/22/2021 17:38	19.6	Second Reading
WCLFH07A	8/3/2021 16:30	0.2	In Compliance
WCLFH07A	8/27/2021 13:33	18.5	Adjusted Valve
WCLFH07A	8/27/2021 13:35	18.7	Second Reading
WCLFH07A	9/2/2021 15:57	18.7	Adjusted Valve
WCLFH07A	9/20/2021 12:51	2.8	In Compliance
WCLFH07B	8/27/2021 13:03	7.1	Adjusted Valve
WCLFH07B	8/27/2021 13:04	12	Second Reading
WCLFH07B	9/2/2021 16:03	0	In Compliance
WCLFH07B	10/29/2021 11:13	19.7	Adjusted Valve
WCLFH07B	10/29/2021 11:14	19.8	Second Reading
WCLFH08A	5/6/2021 12:36	16.2	Adjusted Valve
WCLFH08A	5/6/2021 12:38	16.1	Second Reading
WCLFH08A	5/20/2021 16:12	0	In Compliance
WCLFH08A	7/22/2021 17:41	20.6	Adjusted Valve
WCLFH08A	7/22/2021 17:42	20.4	Second Reading
WCLFH08A	8/3/2021 16:34	18.7	Adjusted Valve
WCLFH08A	8/3/2021 16:35	18.7	Second Reading
WCLFH08A	8/27/2021 13:30	0.1	In Compliance
WCLFH08A	9/7/2021 12:54	17.8	Adjusted Valve
WCLFH08A	9/7/2021 12:55	17.9	Second Reading

Well ID	Date and Time	Oxygen (%)	Comments
WCLFH08A	9/15/2021 11:39	18.1	Adjusted Valve
WCLFH08A	9/15/2021 11:41	18.2	Second Reading
WCLFH08A	9/20/2021 12:47	19.3	Adjusted Valve
WCLFH08A	9/20/2021 12:48	19.3	Second Reading
WCLFH08A	10/6/2021 9:04	20.2	Adjusted Valve
WCLFH08A	10/6/2021 9:06	20.8	Second Reading
WCLFH08A	10/25/2021 11:41	14.1	In Compliance
WCLFH08A	10/25/2021 11:42	15.9	Adjusted Valve
WCLFH08A	10/30/2021 13:43	14	In Compliance
WCLFH08B	5/6/2021 10:44	20.4	(Initial Exceedance 3/11) Adjusted Valve
WCLFH08B	5/6/2021 10:49	20.2	Second Reading
WCLFH08B	5/20/2021 15:31	20.1	Adjusted Valve
WCLFH08B	5/20/2021 15:34	20.9	Second Reading
WCLFH08B	6/10/2021 14:37	19.2	Adjusted Valve
WCLFH08B	6/10/2021 14:38	19.3	Second Reading
WCLFH08B	6/28/2021 18:37	0	In Compliance
WCLFH08B	7/13/2021 12:33	19.2	Adjusted Valve
WCLFH08B	7/13/2021 12:35	18.7	Second Reading
WCLFH08B	7/19/2021 16:57	0	In Compliance
WCLFH09A	5/6/2021 12:22	6.9	(Initial Exceedance 4/30) In Compliance
WCLFH10B	5/6/2021 10:02	17.5	Adjusted Valve
WCLFH10B	5/6/2021 10:02	17.6	Second Reading
WCLFH10B	5/20/2021 15:08	12.7	In Compliance
	0/40/2024 42 00	47 5	
WCLFH10B	8/10/2021 12:00	17.5	Adjusted Valve In Compliance
WCLFH10B	8/12/2021 10:47	14.1	
WCLFH10B	8/26/2021 13:49	15.5	Adjusted Valve
WCLFH10B	8/26/2021 13:50	20	Second Reading
WCLFH10B	9/2/2021 15:48	14.1	In Compliance
WCLFH10B	9/23/2021 12:15	15.6	Adjusted Valve
WCLFH10B	9/28/2021 12:35	17.6	Second Reading
WCLFH10B	10/5/2021 8:43	20.7	Adjusted Valve
WCLFH10B	10/5/2021 8:45	21.6	Second Reading
WCLFH10B WCLFH10B	10/22/2021 10:37	17.7	Adjusted Valve
WCLFH10B WCLFH10B	10/22/2021 10:37	18.4	Second Reading

Well ID	Date and Time	Oxygen (%)	Comments
WCLFR001	5/3/2021 11:21	16.1	(Initial Exceedance 4/22) Adjusted Valve
WCLFR001	5/3/2021 11:22	16.2	Second Reading
WCLFR001	5/12/2021 12:11	18.9	Adjusted Valve
WCLFR001	5/12/2021 12:13	18.9	Second Reading
WCLFR001	5/20/2021 9:09	18.9	Adjusted Valve
WCLFR001	5/20/2021 9:12	18.9	Second Reading
WCLFR001	5/28/2021 10:06	8.7	In Compliance
WCLFR001	6/21/2021 10:22	17.2	Adjusted Valve
WCLFR001	6/21/2021 10:24	17.2	Second Reading
WCLFR001	7/1/2021 10:05	15.7	Adjusted Valve
WCLFR001	7/1/2021 10:06	15.7	Second Reading
WCLFR001	7/9/2021 11:49	14.4	In Compliance
WCLFR001	8/23/2021 10:42	17.5	Adjusted Valve
WCLFR001	8/23/2021 10:43	17.5	Second Reading
WCLFR001	8/30/2021 14:16	14.1	In Compliance
WCLFR001	10/6/2021 14:14	16.2	Adjusted Valve
WCLFR001	10/6/2021 14:15	16.2	Second Reading
WCLFR001	10/11/2021 11:06	14.3	In Compliance
WCLFR001	10/20/2021 11:23	19.6	Adjusted Valve
WCLFR001	10/20/2021 11:25	19.4	Second Reading
WCLFR001	10/26/2021 9:26	20.6	Adjusted Valve
WCLFR001	10/26/2021 9:27	20.5	Second Reading
WCLFR002	5/20/2021 9:15	20	(Initial Exceedance 4/5) Adjusted Valve
WCLFR002	5/20/2021 9:17	20	Second Reading
WCLFR002	5/28/2021 10:09	9.9	In Compliance
WCLFR002	6/21/2021 10:26	17.6	Adjusted Valve
WCLFR002	6/21/2021 10:29	17.6	Second Reading
WCLFR002	7/1/2021 10:07	16.8	Adjusted Valve
WCLFR002	7/1/2021 10:09	17	Second Reading
WCLFR002	7/9/2021 11:54	16.4	Adjusted Valve
WCLFR002	7/9/2021 11:54	16.4	Second Reading
WCLFR002	7/9/2021 11:55	16.1	Third Reading
WCLFR002	7/16/2021 9:57	13.5	In Compliance

Well ID	Date and Time	Oxygen (%)	Comments
WCLFR002	7/19/2021 10:25	15.1	Adjusted Valve
WCLFR002	7/19/2021 10:27	15.2	Second Reading
WCLFR002	7/30/2021 12:57	15.9	Adjusted Valve
WCLFR002	7/30/2021 12:59	15.9	Second Reading
WCLFR002	8/3/2021 16:53	4.2	In Compliance
WCLFR002	8/11/2021 9:25	15.5	Adjusted Valve
WCLFR002	8/11/2021 9:26	15.6	Second Reading
WCLFR002	8/20/2021 14:31	9.7	In Compliance
WCLFR002	8/23/2021 10:45	19	Adjusted Valve
WCLFR002	8/30/2021 14:18	15.1	Adjusted Valve
WCLFR002	8/30/2021 14:19	15.1	Second Reading
WCLFR002	9/9/2021 13:07	16.1	Adjusted Valve
WCLFR002	9/9/2021 13:09	16.1	Second Reading
WCLFR002	9/16/2021 11:44	15.5	Adjusted Valve
WCLFR002	9/16/2021 11:45	15.5	Second Reading
WCLFR002	9/23/2021 14:29	9	In Compliance
WCLFR002	10/6/2021 14:17	16.3	Adjusted Valve
WCLFR002	10/6/2021 14:18	16.3	Second Reading
WCLFR002	10/11/2021 11:08	15.4	Adjusted Valve
WCLFR002	10/11/2021 11:09	15.5	Second Reading
WCLFR002	10/20/2021 11:27	19.6	Adjusted Valve
WCLFR002	10/20/2021 11:28	19.5	Second Reading
WCLFR002	10/26/2021 9:29	20.5	Adjusted Valve
WCLFR002	10/26/2021 9:30	20.5	Second Reading
WCLFR003	5/3/2021 11:31	16.3	(Initial Exceedance 4/22) Adjusted Valve
WCLFR003	5/3/2021 11:32	16.2	Second Reading
WCLFR003	5/12/2021 12:19	20.2	Adjusted Valve
WCLFR003	5/12/2021 12:21	20.2	Second Reading
WCLFR003	5/20/2021 9:21	19.6	Adjusted Valve
WCLFR003	5/20/2021 9:23	19.6	Second Reading
WCLFR003	5/28/2021 10:12	7.6	In Compliance
WCLFR003	6/21/2021 10:31	16.7	Adjusted Valve
WCLFR003	6/21/2021 10:33	16.7	Second Reading
WCLFR003	7/1/2021 10:10	14.4	In Compliance
WCLFR003	8/23/2021 10:47	15.1	Adjusted Valve
WCLFR003	8/23/2021 10:48	15	In Compliance

Well ID	Date and Time	Oxygen (%)	Comments
WCLFR003	10/6/2021 14:21	15.6	Adjusted Valve
WCLFR003	10/6/2021 14:22	15.6	Second Reading
WCLFR003	10/11/2021 11:11	11.2	In Compliance
WCLFR003	10/20/2021 11:30	18.9	Adjusted Valve
WCLFR003	10/20/2021 11:31	18.9	Second Reading
WCLFR003	10/26/2021 9:34	20.2	Adjusted Valve
WCLFR003	10/26/2021 9:35	20.2	Second Reading
WCLFR003	10/26/2021 9:37	20.7	Third Reading
WCLFR004	6/21/2021 10:34	18.1	Adjusted Valve
WCLFR004	6/21/2021 10:37	17.6	Second Reading
WCLFR004	7/1/2021 10:12	15.8	Adjusted Valve
WCLFR004	7/1/2021 10:14	15.7	Second Reading
WCLFR004	7/9/2021 11:59	15.3	Adjusted Valve
WCLFR004	7/9/2021 12:01	15.1	Second Reading
WCLFR004	7/16/2021 10:02	12.1	In Compliance
WCLFR004	8/23/2021 10:51	17.8	Adjusted Valve
WCLFR004	8/23/2021 10:52	17.9	Second Reading
WCLFR004	8/30/2021 14:22	14.2	In Compliance
WCLFR004	9/9/2021 13:15	17.5	Adjusted Valve
WCLFR004	9/9/2021 13:16	17.6	Second Reading
WCLFR004	9/16/2021 11:50	16.9	Adjusted Valve
WCLFR004	9/16/2021 11:52	17	Second Reading
WCLFR004	9/23/2021 14:32	15.2	Adjusted Valve
WCLFR004	9/23/2021 14:32	15.2	Second Reading
WCLFR004	9/28/2021 13:11	18.7	Adjusted Valve
WCLFR004	9/28/2021 13:13	19.1	Second Reading
WCLFR004	10/6/2021 14:23	18.7	Adjusted Valve
WCLFR004	10/6/2021 14:24	18.8	Second Reading
WCLFR004	10/11/2021 11:12	17.3	Adjusted Valve
WCLFR004	10/11/2021 11:13	17.4	Second Reading
WCLFR004	10/20/2021 11:33	19.3	Adjusted Valve
WCLFR004	10/20/2021 11:34	20.3	Second Reading
WCLFR004	10/26/2021 9:39	20.8	Adjusted Valve
WCLFR004	10/26/2021 9:40	20.9	Second Reading
WCLFR005	5/3/2021 11:57	20.9	(Initial Exceedance 3/26) Adjusted Valve
WCLFR005	5/3/2021 11:58	20.9	Second Reading
WCLFR005	5/12/2021 12:45	20.9	Adjusted Valve
WCLFR005	5/12/2021 12:47	20.9	Second Reading

Well ID	Date and Time	Oxygen (%)	Comments
WCLFR005	5/20/2021 9:59	18.1	Adjusted Valve
WCLFR005	5/20/2021 10:00	17.6	Second Reading
WCLFR005	5/28/2021 10:19	11	In Compliance
WCLFR005	6/21/2021 11:17	16.6	Adjusted Valve
WCLFR005	6/21/2021 11:20	16.6	Second Reading
WCLFR005	7/1/2021 10:18	15.7	Adjusted Valve
WCLFR005	7/1/2021 10:19	16.5	Second Reading
WCLFR005	7/9/2021 12:08	14.7	In Compliance
WCLFR005	8/23/2021 10:55	17.7	Adjusted Valve
WCLFR005	8/23/2021 10:56	17.7	Second Reading
WCLFR005	8/23/2021 10:56	17.7	Adjusted Valve
WCLFR005	8/30/2021 14:33	12.1	In Compliance
WCLFR005	10/20/2021 11:49	17.9	Adjusted Valve
WCLFR005	10/20/2021 11:50	17.9	Second Reading
WCLFR005	10/26/2021 9:53	19.9	Adjusted Valve
WCLFR005	10/26/2021 9:55	19.9	Second Reading
WCLFR006	5/3/2021 11:59	17.8	(Initial Exceedance 4/22) Adjusted Valve
WCLFR006	5/3/2021 12:00	17.7	Second Reading
WCLFR006	5/12/2021 12:49	20.9	Adjusted Valve
WCLFR006	5/12/2021 12:49	20.9	Second Reading
WCLFR006	5/12/2021 12:51	20.9	Third Reading
WCLFR006	5/20/2021 10:02	15.8	Adjusted Valve
WCLFR006	5/20/2021 10:03	15.7	Second Reading
WCLFR006	5/28/2021 10:21	10.3	In Compliance
WCLFR006	7/9/2021 12:13	15.9	Adjusted Valve
WCLFR006	7/14/2021 15:30	12.6	In Compliance
WCLFR006	7/30/2021 15:41	16.1	Adjusted Valve
WCLFR006	7/30/2021 15:43	16.5	Second Reading
WCLFR006	8/6/2021 10:08	12.2	In Compliance
WCLFR006	8/23/2021 10:58	15.7	Adjusted Valve
WCLFR006	8/23/2021 11:03	17.2	Second Reading
WCLFR006	8/30/2021 14:24	15	In Compliance
WCLFR006	8/30/2021 14:26	19.8	Adjusted Valve
WCLFR006	9/9/2021 13:26	21.3	Adjusted Valve
WCLFR006	9/9/2021 13:28	21.4	Second Reading

WCLFR006 9/16/2021 12:01 20.8 Adjusted Valve WCLFR006 9/16/2021 12:02 20.9 Second Reading WCLFR006 9/23/2021 13:21 21.4 Adjusted Valve WCLFR006 9/28/2021 13:22 21.4 Adjusted Valve WCLFR006 10/6/2021 13:22 21.4 Second Reading WCLFR006 10/6/2021 14:50 20.2 Second Reading WCLFR006 10/6/2021 11:53 12.7 In Compliance WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Third Reading WCLFR008 5/20/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31<
WCLFR006 9/23/2021 14:39 20.4 Adjusted Valve WCLFR006 9/28/2021 13:21 21.4 Adjusted Valve WCLFR006 9/28/2021 13:22 21.4 Second Reading WCLFR006 10/6/2021 14:49 20 Adjusted Valve WCLFR006 10/6/2021 14:50 20.2 Second Reading WCLFR006 10/6/2021 11:55 12.7 In Compliance WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/20/2021 11:54 21.2 Second Reading WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 13:35
WCLFR006 9/28/2021 13:21 21.4 Adjusted Valve WCLFR006 9/28/2021 13:22 21.4 Second Reading WCLFR006 10/6/2021 14:49 20 Adjusted Valve WCLFR006 10/6/2021 14:50 20.2 Second Reading WCLFR006 10/11/2021 11:35 12.7 In Compliance WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/20/2021 11:54 21.2 Second Reading WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31
WCLFR006 9/28/2021 13:22 21.4 Second Reading WCLFR006 10/6/2021 14:49 20 Adjusted Valve WCLFR006 10/6/2021 14:50 20.2 Second Reading WCLFR006 10/11/2021 11:53 12.7 In Compliance WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/20/2021 11:54 21.2 Second Reading WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR006 10/26/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39
WCLFR006 10/6/2021 14:49 20 Adjusted Valve WCLFR006 10/6/2021 14:50 20.2 Second Reading WCLFR006 10/11/2021 11:35 12.7 In Compliance WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/20/2021 11:54 21.2 Second Reading WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39
WCLFR006 10/6/2021 14:50 20.2 Second Reading WCLFR006 10/11/2021 11:35 12.7 In Compliance WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/20/2021 11:54 21.2 Second Reading WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08
WCLFR006 10/11/2021 11:35 12.7 In Compliance WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/20/2021 11:54 21.2 Second Reading WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40
WCLFR006 10/20/2021 11:53 21.1 Adjusted Valve WCLFR006 10/20/2021 11:54 21.2 Second Reading WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve
WCLFR006 10/20/2021 11:54 21.2 Second Reading WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40
WCLFR006 10/20/2021 11:54 21.2 Second Reading WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40
WCLFR006 10/26/2021 9:58 21.4 Adjusted Valve WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR006 10/26/2021 9:59 21.6 Second Reading WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/9/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 5/12/2021 12:55 20.9 Adjusted Valve WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/9/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 5/12/2021 12:55 20.9 Second Reading WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 5/12/2021 12:57 20.9 Third Reading WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 5/20/2021 10:07 0.1 In Compliance WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 8/30/2021 14:30 20.5 Adjusted Valve WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 8/30/2021 14:31 20.7 Second Reading WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 9/9/2021 13:35 17.5 Adjusted Valve WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 9/9/2021 13:39 15.6 Second Reading WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 9/16/2021 12:08 9 In Compliance WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 10/11/2021 11:40 20.5 Adjusted Valve WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 10/11/2021 11:40 20.5 Second Reading
WCLFR008 10/20/2021 12:02 3.9 In Compliance
WCLFR009 5/12/2021 13:38 17 (Initial Exceedance 3/26) Adjusted Valve
WCLFR009 5/12/2021 13:40 17 Second Reading
WCLFR009 5/20/2021 10:19 15.2 Adjusted Valve
WCLFR009 5/20/2021 10:20 15.2 Second Reading
WCLFR009 5/28/2021 10:48 9.7 In Compliance
WCLFR009 6/21/2021 12:14 15.8 Adjusted Valve
WCLFR009 6/21/2021 12:16 15.8 Second Reading
WCLFR009 7/1/2021 10:29 14 In Compliance
WCLFR009 8/23/2021 11:24 15.2 Adjusted Valve
WCLFR009 8/23/2021 11:24 15.2 Second Reading
WCLFR009 8/30/2021 14:40 13.9 In Compliance

Well ID	Date and Time	Oxygen (%)	Comments
WCLFR009	10/20/2021 12:11	17.9	Adjusted Valve
WCLFR009	10/20/2021 12:11	17.9	Second Reading
WCLFR009	10/26/2021 10:15	19.7	Adjusted Valve
WCLFR009	10/26/2021 10:16	19.8	Second Reading
WCLFR010	5/3/2021 12:14	20.5	Adjusted Valve
WCLFR010	5/3/2021 12:15	20.7	Second Reading
WCLFR010	5/12/2021 13:41	12.6	In Compliance
WCLFR010	10/20/2021 12:15	15.1	Adjusted Valve
WCLFR010	10/20/2021 12:16	15.1	Second Reading
WCLFR010	10/26/2021 10:18	18.7	Adjusted Valve
WCLFR010	10/26/2021 10:20	18.7	Second Reading
WCLFR013	6/21/2021 12:31	15.1	Adjusted Valve
WCLFR013	6/21/2021 12:33	15	Second Reading
WCLFR013	7/1/2021 10:40	13.4	In Compliance
WCLFR013	10/20/2021 12:53	17.7	Adjusted Valve
WCLFR013	10/20/2021 12:55	17.6	Second Reading
WCLFR013	10/26/2021 10:36	19.3	Adjusted Valve
WCLFR013	10/26/2021 10:38	19.3	Second Reading
WCLFR014	5/20/2021 10:41	17.1	(Initial Exceedance 4/22) Adjusted Valve
WCLFR014	5/20/2021 10:43	17.1	Second Reading
WCLFR014	5/28/2021 11:01	13.3	In Compliance
WCLFR014	6/7/2021 11:25	16.5	Adjusted Valve
WCLFR014	6/7/2021 11:26	15.5	Second Reading
WCLFR014	6/16/2021 10:37	5.7	In Compliance
WCLFR014	7/1/2021 10:43	16.5	Adjusted Valve
WCLFR014	7/1/2021 10:45	16.3	Second Reading
WCLFR014	7/9/2021 13:55	13.9	In Compliance
WCLFR014	8/11/2021 9:57	17.8	Adjusted Valve
WCLFR014	8/11/2021 9:59	19.8	Second Reading
WCLFR014	8/20/2021 15:27	15.3	Adjusted Valve
WCLFR014	8/20/2021 15:28	14.5	In Compliance
WCLFR014	8/23/2021 11:37	17.7	Adjusted Valve
WCLFR014	8/23/2021 11:38	20.1	Second Reading
WCLFR014	8/30/2021 14:56	13.8	In Compliance

Well ID	Date and Time	Oxygen (%)	Comments
WCLFR014	9/9/2021 14:04	20.4	Adjusted Valve
WCLFR014	9/9/2021 14:06	21.6	Second Reading
WCLFR014	9/16/2021 12:33	19.7	Adjusted Valve
WCLFR014	9/16/2021 12:35	20.6	Second Reading
WCLFR014	9/23/2021 14:59	18.3	Adjusted Valve
WCLFR014	9/23/2021 15:00	20.2	Second Reading
WCLFR014	9/23/2021 15:00	20.2	Third Reading
WCLFR014	9/28/2021 13:54	18.6	Adjusted Valve
WCLFR014	9/28/2021 13:55	19.3	Second Reading
WCLFR014	10/6/2021 15:45	20.4	Adjusted Valve
WCLFR014	10/6/2021 15:47	20.2	Second Reading
WCLFR014	10/11/2021 12:42	19.7	Adjusted Valve
WCLFR014	10/11/2021 12:43	20	Second Reading
WCLFR014	10/20/2021 12:56	19.9	Adjusted Valve
WCLFR014	10/20/2021 12:58	21	Second Reading
WCLFR014	10/26/2021 10:44	19.1	Adjusted Valve
WCLFR014	10/26/2021 10:46	21.1	Second Reading

Note: All required corrective action and monitoring was completed in accordance with Rule 8-34 and NSPS timelines.

Wells in **bold italics** indicate wells with a 15% higher operating value (HOV) for oxygen pursuant to Permit Condition Number 20754 Part 2(c)(ii) and Condition Number 25293 Part 7(d)(iii)

Well ID	Date and Time	Initial Temp [°F]	Adjusted Temp [°F]	Comments	
There were no temperature exceedances during this reporting period.					

Appendix A – Responsible Official Certification Form

Certification of Truth and Accuracy and Completeness:

I certify the following:

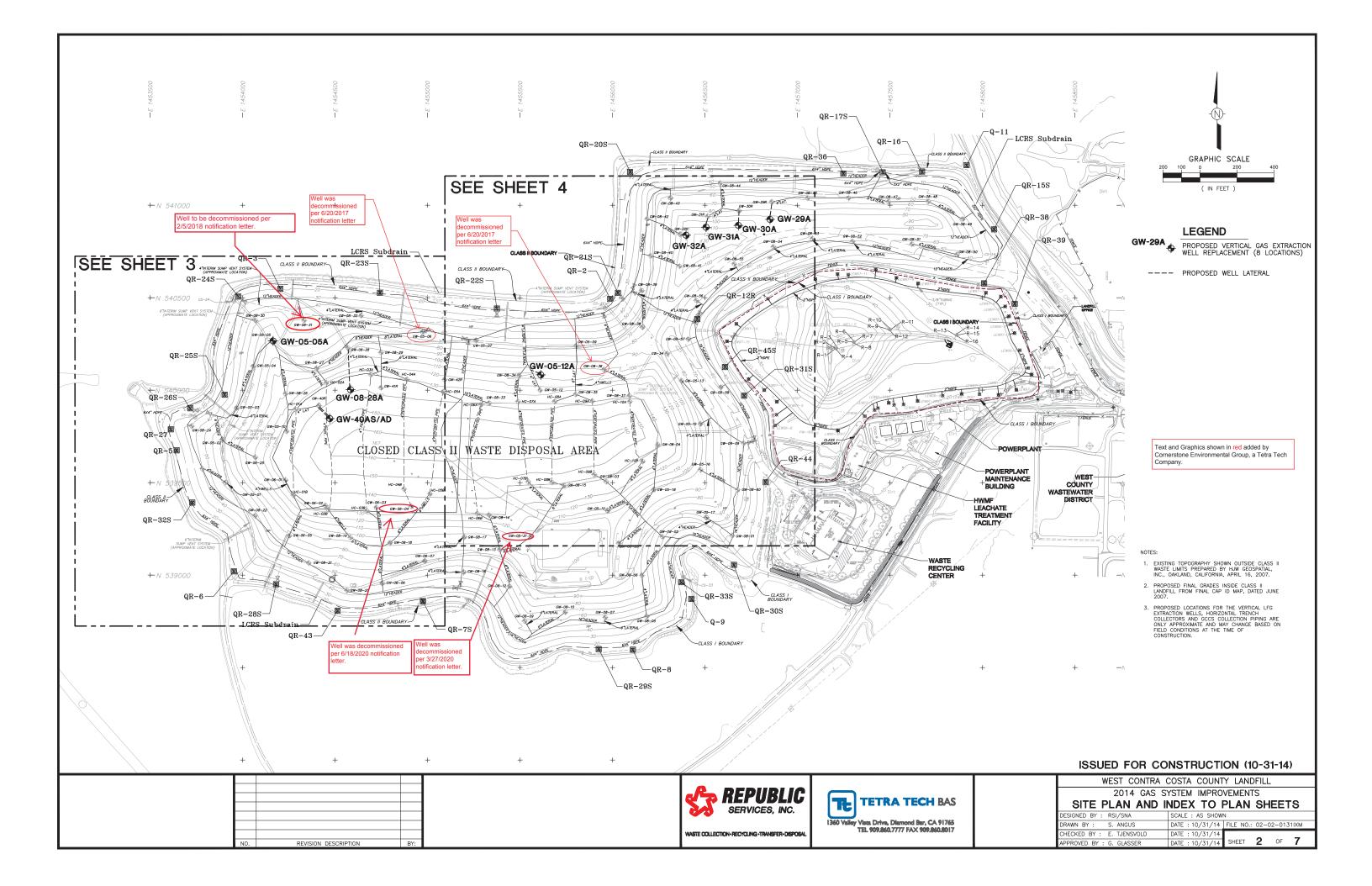
Based on the information and belief formed after reasonable inquiry, the information in this document are true, accurate, and complete:

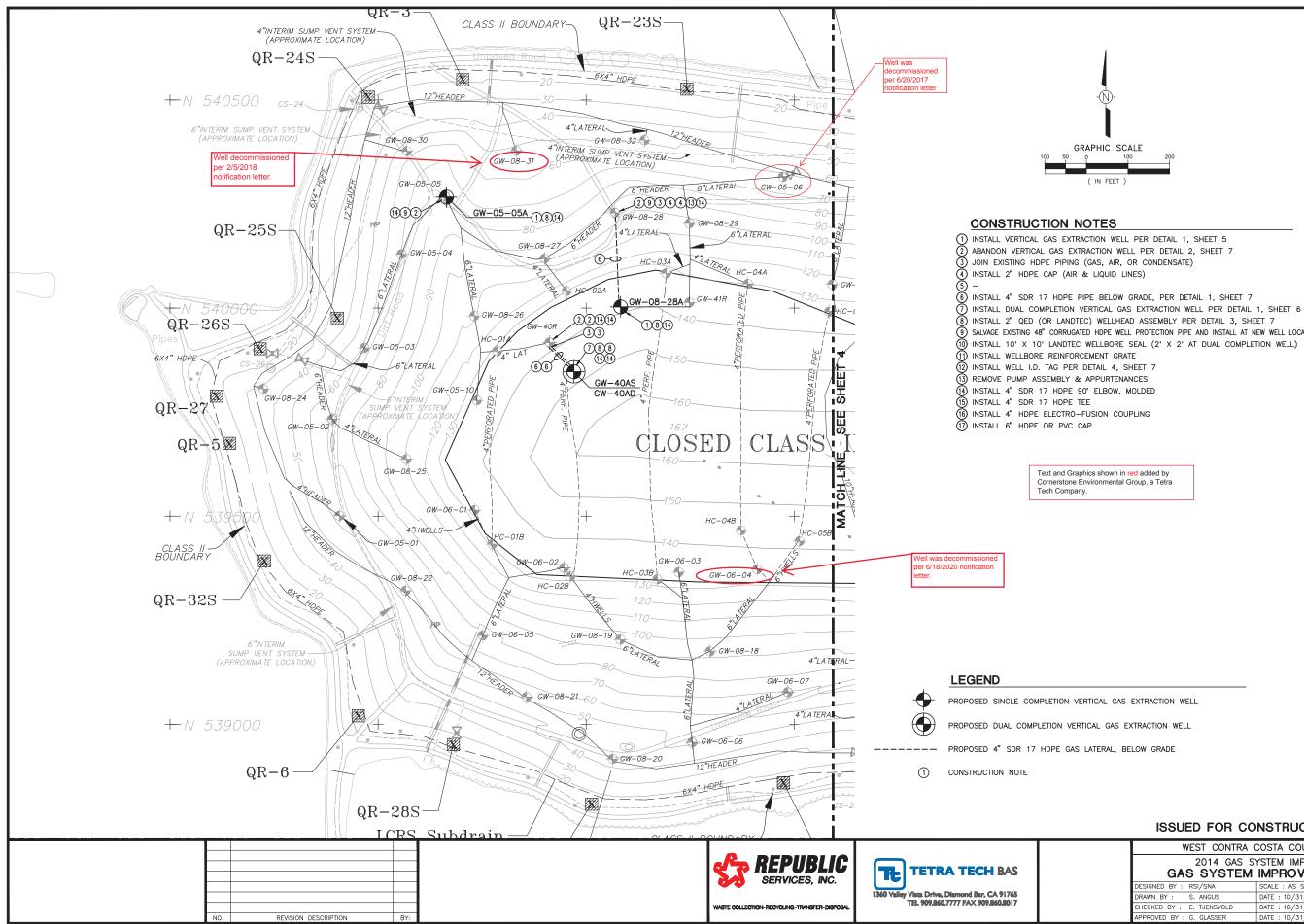
114

Signature of Responsible Official

/1-24-21 Date

Rob Sherman Name of Responsible Official Appendix B – Existing GCCS Layout

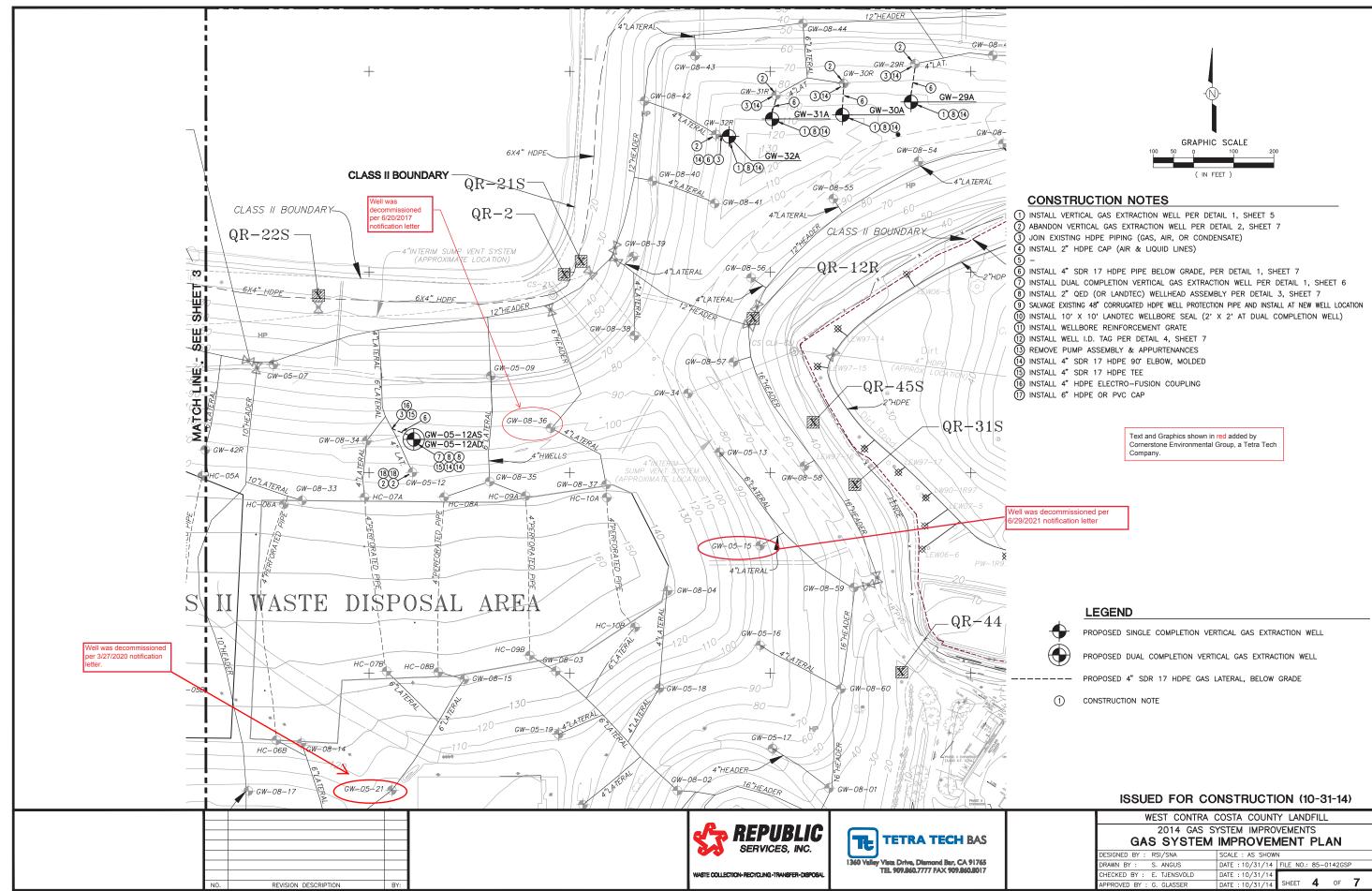




3 SALVAGE EXISTING 48" CORRUGATED HDPE WELL PROTECTION PIPE AND INSTALL AT NEW WELL LOCATION

ISSUED FOR CONSTRUCTION (10-31-14)

WEST CONTRA (COSTA COUNTY LANDFILL				
2014 GAS S	2014 GAS SYSTEM IMPROVEMENTS				
GAS SYSTEM	IMPROVEMENT PLAN				
DESIGNED BY : RSI/SNA	SCALE : AS SHOWN				
DRAWN BY : S. ANGUS	DATE : 10/31/14 FILE NO.: 03-86-0141GSP				
CHECKED BY : E. TJENSVOLD	DATE : 10/31/14				
APPROVED BY : G. GLASSER	DATE : 10/31/14 SHEET 3 OF 7				



2014 GAS S		
GAS SYSTEM	IMPROVEN	IENI PLAN
DESIGNED BY : RSI/SNA	SCALE : AS SHOW	N
DRAWN BY : S. ANGUS	DATE : 10/31/14	FILE NO.: 85-0142GSP
CHECKED BY : E. TJENSVOLD	DATE :10/31/14	
APPROVED BY : G. GLASSER	DATE : 10/31/14	SHEET 4 OF 7

Appendix C – LFGTE Facility Downtime Logs

S-6 Engine Downtime West Contra Costa Sanitary Landfill (May 1, 2021 through October 31, 2021)

Shutdown Date/Time*	Startup Date/Time	Duration (Hours)	Reason for Downtime
5/2/2021 21:38	5/3/2021 6:32	8.90	Low temperature
5/3/2021 16:56	5/4/2021 6:38	13.70	Low temperature
5/5/2021 10:30	5/5/2021 11:04	0.57	Main Voltage Trip, Power Outage
5/5/2021 13:18	5/5/2021 14:52	1.57	Low temperature
5/5/2021 15:42	5/5/2021 15:58	0.27	Low temperature
5/5/2021 19:30	5/6/2021 6:08	10.63	Low temperature
5/6/2021 13:30	5/7/2021 6:30	17.00	Low temperature
5/7/2021 22:06	5/10/2021 10:08	60.03	Low temperature
5/10/2021 13:50	5/10/2021 13:54	0.07	Low temperature
5/10/2021 20:46	5/11/2021 7:38	10.87	Low temperature
5/11/2021 7:52	5/11/2021 8:00	0.13	Low temperature
5/11/2021 20:38	5/12/2021 8:04	11.43	Low temperature
5/13/2021 3:12	5/13/2021 7:54	4.70	Low temperature
5/13/2021 22:54	5/14/2021 7:36	8.70	Low temperature
5/14/2021 21:06	5/17/2021 14:08	65.03	Low temperature
5/17/2021 14:28	5/18/2021 7:30	17.03	Low temperature
5/18/2021 10:58	5/18/2021 11:04	0.10	Low temperature
5/18/2021 11:42	5/18/2021 11:46	0.07	Low temperature
5/19/2021 20:50	5/20/2021 7:56	11.10	Low temperature
5/21/2021 21:12	5/24/2021 7:32	58.33	Low temperature
5/24/2021 21:44	5/25/2021 7:26	9.70	Low temperature
5/25/2021 18:56	5/26/2021 8:02	13.10	Low temperature
5/26/2021 8:08 5/27/2021 5:02	<u>5/26/2021 8:48</u> 5/27/2021 7:30	0.67	Low temperature
5/28/2021 20:38	6/1/2021 7:28	82.83	Low temperature
6/2/2021 0:42	6/2/2021 7:36	6.90	Low temperature PG&E momentary trip
6/2/2021 7:58	6/2/2021 8:00	0.03	Low temperature
6/2/2021 21:38	6/3/2021 7:40	10.03	Low temperature
6/3/2021 22:40	6/4/2021 7:48	9.13	Low temperature
6/4/2021 22:36	6/7/2021 7:36	57.00	Low temperature
6/7/2021 22:44	6/8/2021 7:14	8.50	Low temperature
6/9/2021 22:16	6/10/2021 8:26	10.17	Low temperature
6/11/2021 22:42	6/14/2021 7:30	56.80	Low temperature
6/15/2021 16:46	6/16/2021 7:32	14.77	Low temperature
6/16/2021 17:46	6/17/2021 7:26	13.67	Low temperature
6/17/2021 15:18	6/18/2021 7:44	16.43	Low temperature
6/19/2021 23:18	6/21/2021 7:32	32.23	Low temperature
6/21/2021 7:36	6/21/2021 7:52	0.27	Low temperature
6/21/2021 7:56	6/21/2021 7:58	0.03	Low temperature
6/23/2021 23:52	6/24/2021 7:26	7.57	Low temperature
6/24/2021 19:24	6/25/2021 7:32	12.13	Low temperature
6/25/2021 22:06	6/28/2021 10:02	59.93	Low temperature
6/28/2021 10:16	6/28/2021 10:20	0.07	Low temperature
6/29/2021 23:52	6/30/2021 7:44	7.87	Low temperature
7/3/2021 6:48	7/6/2021 7:54	73.10	Low temperature
7/9/2021 3:30	7/9/2021 9:42	6.20	Low temperature
7/9/2021 19:24	7/12/2021 7:38	60.23	Low temperature
7/12/2021 7:50	7/12/2021 7:54	0.07	Low temperature
7/13/2021 21:08	7/14/2021 7:40	10.53	Low temperature
7/15/2021 16:08	7/16/2021 7:36	15.47	Low temperature
7/16/2021 16:08	7/19/2021 7:32	63.40	Low temperature
7/22/2021 6:34	7/22/2021 7:38	1.07	Low temperature
7/22/2021 11:38	7/29/2021 12:42	169.07	Low temperature
7/29/2021 23:26	8/2/2021 6:14	78.80	Low temperature

S-6 Engine Downtime West Contra Costa Sanitary Landfill (May 1, 2021 through October 31, 2021)

Shutdown	Startup Date/Time	Duration	Reason for Downtime
Date/Time*	-	(Hours)	
8/3/2021 6:16	8/3/2021 6:34	0.30	Low temperature
8/3/2021 22:04	8/4/2021 6:22	8.30	Low temperature
8/4/2021 6:52	8/4/2021 6:56	0.07	Low temperature
8/4/2021 16:02	8/5/2021 6:32	14.50	Low temperature
8/6/2021 14:58	8/9/2021 7:32	64.57	Low temperature
8/9/2021 8:20	8/9/2021 8:26	0.10	Low temperature
8/9/2021 22:08	8/10/2021 7:40	9.53	Low temperature
8/10/2021 7:44	8/10/2021 7:46	0.03	Low temperature
8/10/2021 22:14	8/11/2021 7:56	9.70	Low temperature
8/11/2021 13:38	8/12/2021 8:10	18.53	Low temperature
8/12/2021 11:10	8/12/2021 11:36	0.43	Low temperature
8/12/2021 21:48	8/16/2021 7:36	81.80	Low temperature
8/17/2021 6:28	8/17/2021 7:38	1.17	Low temperature
8/17/2021 13:36	8/17/2021 13:40	0.07	Low temperature
8/18/2021 6:18	8/18/2021 7:40	1.37	Low temperature
8/27/2021 8:36	8/27/2021 8:54	0.30	Low temperature
8/27/2021 9:14	8/27/2021 9:38	0.40	Low temperature
8/28/2021 4:06	8/30/2021 8:20	52.23	Low temperature
8/30/2021 8:40	8/30/2021 9:04	0.40	Low temperature
8/30/2021 9:10	8/30/2021 9:34	0.40	Low temperature
8/31/2021 6:40	8/31/2021 7:14	0.57	Low temperature
8/31/2021 7:34	8/31/2021 7:44	0.17	Low temperature
8/31/2021 8:02	8/31/2021 8:18	0.27	Low temperature
8/31/2021 22:14	9/1/2021 7:16	9.03	Low temperature
9/1/2021 9:34	9/7/2021 7:40	142.10	Low temperature
9/7/2021 7:52	10/1/2021 0:00	568.13	Low temperature
10/1/2021 0:00	10/7/2021 8:06	152.10	Low temperature
10/7/2021 20:18	10/8/2021 7:34	11.27	Low temperature
10/8/2021 7:40	10/8/2021 7:54	0.23	Low temperature
10/14/2021 6:12	10/14/2021 7:22	1.17	Low temperature
10/15/2021 12:50	10/15/2021 12:56	0.10	Low temperature
10/18/2021 6:40	10/18/2021 7:34	0.90	Low temperature
10/20/2021 6:38	10/20/2021 7:20	0.70	Low temperature
10/21/2021 12:30	10/21/2021 12:44	0.23	Low temperature
10/21/2021 13:22	10/21/2021 14:08	0.77	Low temperature
10/21/2021 16:08	10/22/2021 7:24	15.27	Low temperature
10/24/2021 9:08	10/25/2021 10:52	25.73	Low temperature
10/25/2021 23:12	10/26/2021 7:22	8.17	Low temperature
10/29/2021 9:44	10/29/2021 10:16	0.53	Low temperature
10/30/2021 12:00	11/1/2021 0:00	36.00	Low temperature
TOTAL DOWN	NTIME (HOURS):	2462.23	

*The S-6 Engine was offline at the end of November 2021. For reporting purposes, the shutdown was calculated as having begun on November 1, 2021 at 00:00.

S-5 Engine Downtime West Contra Costa Sanitary Landfill (May 1, 2021 through October 31, 2021)

Shutdown Date/Time*	Startup Date/Time	Duration (Hours)	Reason for Downtime
5/1/2021 0:00	11/1/2021 0:00	4416.00	See note below
TOTAL DOWN	NTIME (HOURS):	4416.00	

*The S-5 engine has been out of service since December 2017; and therefore, did not operate during the reporting period.

S-37 Engine Downtime West Contra Costa Sanitary Landfill (May 1, 2021 through October 31, 2021)

Shutdown Date/Time*	Startup Date/Time	Duration (Hours)	Reason for Downtime
5/1/2021 0:00	11/1/2021 0:00	4416.00	See note below
TOTAL DOWN	NTIME (HOURS):	4416.00	

*The S-37 engine engine is no longer able to operate due to a catastrophic failure which occurred in March 2018; and therefore, did not operate during the reporting period.

Appendix D – Surface Emission and GCCS Component Leak Monitoring Results

West Contra Costa County Landfill New Source Performance Standards (NSPS) Surface Emissions Monitoring Second Quarter 2021

Presented to:



Mr. Ed Baquerizo Republic Services, Inc. 1 Parr Boulevard Richmond, California 94801



File No 07219040.00 | September 3, 2021

SCS FIELD SERVICES 4730 Enterprise Way, Suite A Modesto, CA 95356

West Contra Costa County Landfill

New Source Performance Standards (NSPS) Surface Emissions Monitoring Second Quarter 2021

INTRODUCTION

On May 10, 11, and 12, 2021, SCS Field Services (SCS) performed routine quarterly Surface Emissions Monitoring (SEM) at the West Contra Costa County Landfill (Site) for the second quarter of 2021. This monitoring was conducted in accordance with regulations set forth in the New Source Performance Standards (NSPS), Title 40 Code of Federal Regulations Section 60.755(c) and (d) (40 CFR §60.755(c) and (d)) and 40 CFR Part 60, Appendix A, Method 21, promulgated by the United States Environmental Protection Agency (USEPA).

MONITORING PROCEDURES

A Thermo Scientific TVA-2020 flame ionization detector (FID) was used to perform the emissions monitoring. The calibration of the FID was verified at the beginning of the day, prior to use, in accordance with Environmental Protection Agency Method 21 requirements. Calibration logs were completed by the field technician performing the work and are included in Attachment A.

The monitoring route provided coverage of all waste disposal areas served by the active landfill gas collection system installed for NSPS compliance purposes, except those areas presenting a safety risk to the monitoring technician. If noted during monitoring, special attention was given to locations with unusual cover conditions (i.e., stressed vegetation, cracks, seeps, etc.) and any areas with unusual odors. A map of the monitoring route is included in Attachment B.

WEATHER CONDITIONS

In accordance with NSPS regulations, the monitoring event was performed during typical meteorological conditions.

MONITORING SUMMARY

During the monitoring event, SCS observed that the ground surface appeared to be in good condition and that there were no unusual odors. No readings exceeded the regulatory limit for surface emissions of methane (i.e., FID reading greater than 500 parts per million above background concentrations) on May 10, 11, and 12, 2021. Therefore, based on these results, no follow up testing is required and the site was in compliance upon completion of the second quarter 2021 SEM event.

SCS is scheduled to perform the third quarter testing prior to the end of September 2021.

CLOSING

This report addresses conditions of the subject site on the test date only. Accordingly, we assume no responsibility for any changes that may occur subsequent to our testing which could affect the emissions at the subject site.

SCS-FS appreciates the opportunity to have provided Republic Services with quarterly SEM services for the Site. If you have any questions or comments concerning this report, please contact Whitney Stackhouse at (209) 338-7990 or Michael Flanagan (510) 363-7796.

Sincerely,

Whitney M. Stackhouse Project Manager SCS Field Services

WS/AJ

cc: Enclosure

Sean Bass, SCS Field Services Haley DeLong, SCS Engineers

Michael Flanagan Project Manager SCS Field Services

Attachment A

Daily Calibration Logs Republic SOP SEM Logs

		SURFACE EMISS			
	Ги				
Date: –	5-10-2	-	Site Name:	WCC	
Inspector(s): _	Lian Mc	Ginn	Instrument:	TVA 2020	
WEATHER OBSER	RVATIONS				
Wind Speed:	Мрн	Wind Direction:		Barometric Pressure: 29.9	_ "Нg
Air Temperature:	53 °F	General Weathe Conditions	1.1	-	
CALIBRATION INF	ORMATION				
Pre-monitoring Cali	bration Precision Cheo	:k			
nstrument Serial N	ess than or equal to 10	rence between the instrument % of the calibration gas value. 235719	reading and the	Cal Gas Concentration:	500ppm
rial	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds
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3		501		\vec{v}	3
		- 962	· 7 %	/500 x 100%	
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st Monitoring Calib	ration Check				
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ading:)ppm	Reading:	500	ppm	
CKGROUND CON	CENTRATIONS CHEC	ĸs		7	
wind Location Desc	ription:	Entrance Grid36	ſ	Reading:	pm
wnwind Location D	escription:	Grid36	F	Reading: 1, 1 p	pm
t es: Wind excee	eded 20 miles per hou	observed to remain below the r. No rainfall had occurred wit	hin the previous:	lested 10 miles per hour an 24 hours of the monitoring MR requirements on the ab	event. Therefore, site

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			IONS MONITORING	
Date:	5-16-21			'n
)	Reverse Healt		Site Name: WCC	
inspector(s);	Ryan Hask	2 M	Instrument: TVA 2020	
WEATHER OF	SERVATIONS		i i i	
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Wind Speed	d:MPH	Direction:	Pressure:	1/9"Hg
A Temperature	5 5	General Weathe Conditions		
CALIBRATION	INFORMATION			
Pre-monitoring	Calibration Precision Check			
and calculate th	he average algebraic differen be less than or equal to 10% (ce between the instrument i	nts by alternating zero air and the cal reading and the calibration gas as a p Cal Gas Concentr	percentage. The calibration
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas ConcCal Gas Reading	g Response Time (second
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2	0	502	1	3
Calibration Preci	sion= Average Difference/Cal		*Perform recalibration if average difference is grea	ater than 10
Calibration Preci	sion= Average Difference/Cal		*Perform recalibration if average difference is grea	ater than 10
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/ Temperatur	Air 68 re: 68	General Weath Condition	1 0 0		
CALIBRATION	N INFORMATION				
Pre-monitorin	g Calibration Precision Check				
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1	0	501		1	3
2	4 9	500		0	3
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Attachment B

SEM Route Map



Second Quarter 2021 Surface Emissions Monitoring Pathway West Contra Costa County Landfill, Contra Costa County, California

SCS FIELD SERVICES

October 14, 2021 Project No. 07219040.00

Mr. Ed Baquerizo Republic Services, Inc. 1 Parr Boulevard Richmond, California 94801

Subject: West Contra Costa County Landfill – Richmond, California

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS) Surface Emissions Monitoring for Third Quarter 2021.

Dear Mr. Baquerizo:

SCS Field Services (SCS-FS) is pleased to provide the Republic Services, with the enclosed report summarizing the surface emissions monitoring services provided at the Closed West Contra Costa Sanitary Landfill (Site) during the third quarter 2021. This report includes the results of surface scan, component emissions and blower/flare station emissions monitoring for the Site for this monitoring period.

SCS-FS appreciates the opportunity to be of assistance to Republic Services on this project. As you review the enclosed information, please contact Michael Flanagan at (925) 421-9768 or Whitney Stackhouse (209) 338-7990 if you have any questions or comments.

Sincerely,

Whitney M. Stackhouse Project Manager SCS Field Services

Michael Flanagan Project Manager SCS Field Services

WS

cc: Enclosure

Sean Bass, SCS Field Services

Art Jones, SCS Field Services

West Contra Costa County Landfill

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS) Surface Emissions Monitoring

Third Quarter 2021

Presented to:



Mr. Ed Baquerizo Republic Services, Inc. 1 Parr Boulevard Richmond, California 94801

SCS FIELD SERVICES

File No. 07219040.00 | October 14, 2021

SCS FIELD SERVICES 4730 Enterprise Way Modesto, CA 95356

West Contra Costa County Landfill

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS) Surface Emissions Monitoring Third Quarter 2021

INTRODUCTION

This letter provides results of the July 9, 16 and 23, 2021 and August 13, 2021, LMR and NSPS landfill surface emissions monitoring (SEM) performed by SCS Field Services (SCS) at the closed West Contra Costa County Landfill. All work was performed in accordance with our approved Work Scope dated September 13, 2018, and the LMR requirements.

SUMMARY AND CONCLUSIONS

On July 9, 16 and 23, 2021 and August 13, 2021, instantaneous and integrated surface emissions monitoring was performed over the surface of the site. Testing results indicated no uncorrectable exceedances of the LMR and NSPS instantaneous threshold limit of 500 parts per million by volume (ppmv), or the integrated average of 25 ppmv as required by the LMR, above background. Based on these monitoring results no further follow up testing was required.

On July 9, 16 and 23, 2021 and August 13, 2021, SCS performed third quarter 2021 surface emissions monitoring testing as required by the Bay Area Air Quality Management District (BAAQMD). Instantaneous surface emissions monitoring results indicated that four (4) locations exceeded the 500 ppmv maximum concentration on the above-mentioned date (Table 1 in Attachment 3). The required 10 and 30-day NSPS and LMR follow-up monitoring indicated that these locations had returned to compliance following system adjustments and remediation by SCS and site personnel. Based on these monitoring results no follow up testing was required.

Also, during the instantaneous monitoring event, SCS performed integrated monitoring of the landfill surface. As required by the LMR, the landfill was divided into 50,000 square foot areas. The West Contra Costa County Landfill surface area was divided into 165 grids, as shown on Figure 1 in Attachment 1. During this monitoring event, several grids were not monitored, in accordance with the regulations, due to ongoing active composting activities, unsafe conditions, or there was no waste in place prior to the monitoring event.

During the monitoring event, there were no areas observed to exceed the LMR integrated average of 25 ppmv (Table 2 in Attachment 4). Based on these monitoring results no follow up testing was required. These results are discussed in a subsequent section of this report.

In addition, quarterly monitoring of the pressurized piping or components of the Gas Collection and Control System (GCCS) that are under positive pressure must be performed. Results of the testing of the landfill gas (LFG) Blower Flare Station (BFS) pressurized pipe and components indicated that all test locations were in compliance with the 500 ppmv requirements.

1

Further, as required under the LMR, any location on the landfill that has an observed instantaneous methane concentration above 200 ppmv, must be stake-marked and Global Positioning System (GPS) located on a site figure. No locations were observed to exceed the 200 ppmv threshold (Attachment 3). If concentrations exceeding 200 ppmv are observed during monitoring events, they are reported to site personnel and will be reported in the next submittal of the annual LMR report.

As stipulated in LMR, if uncorrectable exceedances within the 10-day limitation are detected or emissions are discovered during an inspection by Regulatory Agencies, the landfill must perform monitoring on a 25-foot pathway on a quarterly basis for active disposal sites. Upon completion of four consecutive SEM events without an uncorrectable exceedance of the 25 ppmv or 500 ppmv standards, other than non-repeatable momentary readings, the landfill may perform the monitoring on a 100-foot spacing on an annual basis for closed landfills or quarterly for active disposal sites. Therefore, in accordance with the rule, the site may return to annual LMR monitoring on a 100-foot spacing beginning with the 2021 calendar year. However, based on previous instantaneous monitoring results, the site is required to perform NSPS surface emissions monitoring on a 100-ft spacing on a quarterly basis.

Finally, to help prevent potential future exceedances, SCS routinely inspects the landfill surface, and any observed areas in need of repair would be noted, and the findings sent directly to the client.

BACKGROUND

The West Contra Costa Sanitary Landfill is an inactive organic refuse disposal site. By way of background, organic materials buried in a landfill decompose anaerobically (in the absence of oxygen) producing a combustible gas, which contains approximately 50 to 60 percent methane, 40 to 50 percent carbon dioxide, and trace amounts of various other gases, some of which are odorous. The West Contra Costa Sanitary Landfill property contains a GCCS to control the combustible gases generated in the landfill that may otherwise either vent vertically to the atmosphere or migrate horizontally through subsurface soil to locations on adjacent properties.

SURFACE EMISSIONS MONITORING

On July 9, 16 and 23, 2021 and August 13, 2021, the instantaneous and integrated SEM was performed over the surface of the subject site. The intent of the monitoring was to identify any specific locations or areas of the landfill surface with organic compound concentrations exceeding the LMR threshold limit values of 500 ppmv measured as methane for instantaneous monitoring, or an average methane concentration of 25 ppmv for the integrated monitoring in the 50,000 square foot grids as required under the LMR. During this event, SCS performed the annual monitoring on a 100-foot pathway in accordance with the rules as required.

EMISSIONS TESTING INSTRUMENTATION/CALIBRATION

Instruments used to perform the landfill surface emission testing consisted of the following:

• Thermo Scientific TVA 2020 portable Flame Ionization Detector (FID). This instrument measures methane in air over a range of 1 to 50,000 ppmv. The TVA 2020 meets the State of California Air Resources Board (CARB) requirements for combined instantaneous and integrated monitoring and was calibrated in accordance with United States Environmental Protection Agency (US EPA) Method 21.

• Electronic Weather Anemometer with continuous recorder for meteorological conditions in accordance with the LMR.

Instrument calibration logs and weather information are shown in Attachments 5 and 6.

SURFACE EMISSIONS MONITORING PROCEDURES

Surface emissions monitoring was conducted in accordance with the LMR and NSPS requirements. Monitoring was performed with the FID inlet held within 3-inches of the landfill surface while a technician walked a grid in parallel paths not more than 25 or 100-feet apart over the surface of the landfill. Cracks, holes and other cover penetrations in the surface were also tested. Surface emissions readings were monitored continuously and recorded every 5 seconds. Any areas in exceedance of the 200 or 500 ppmv standards (reporting and compliance levels, respectively) would be GPS tagged and stake-marked for on-site personnel to perform remediation or repairs.

The integrated average is based on the readings stored on the instrument, which are recorded every 5 seconds. The readings are then downloaded and the averages are calculated for each grid using SCS eTools[®]. All readings are maintained in this secure SCS Database. The readings are not provided in the report due to the volume of readings, but can be furnished upon request.

Recorded wind speed results are shown in Attachment 5. Wind speed averages were observed to remain below 5 miles per hour, and no instantaneous speeds exceeded 10 miles per hour. No rainfall had occurred within the 72 hour of the monitoring events. Therefore, site meteorological conditions were within the LMR requirements on the above mentioned date.

TESTING RESULTS

During this event, SCS performed the quarterly monitoring on a 100-foot pathway in accordance with the rule as required under the LMR and NSPS. The intent of the monitoring was to identify any specific locations or areas of the landfill surface with organic compound concentrations exceeding the LMR or NSPS threshold limit values of 500 ppmv measured as methane for instantaneous monitoring, or an average methane concentration of 25 ppmv for the integrated monitoring (LMR).

On July 9 and 13, 2021, SCS performed third quarter 2021 instantaneous emissions monitoring testing as required by the BAAQMD. During this monitoring, surface emissions results indicated that four (4) locations exceeded the 500 ppmv maximum concentration. The required 10 and 30-day NSPS and LMR follow-up monitoring (performed on July 23, 2021 and August 13, 2021) indicated that the locations had returned to compliance following system adjustments and remediation by SCS and site personnel. Based on these monitoring results, no additional follow up testing is required. Results of the monitoring are shown in Attachments 2 and 3 (Table 1).

Additionally, calculated integrated monitoring indicated no integrated exceedances of the 25-ppmv requirement. Results of the monitoring are shown in Attachment 4 (Table 2). Based on these monitoring results no follow up testing was required. Calibration logs for the monitoring equipment are provided in Attachment 5.

During this monitoring event, several girds were not monitored, in accordance with the LMR, due to active composting activities, unsafe conditions, heavy vegetation or no waste in place. SCS will continue to monitor all accessible locations during the annual 2022 monitoring event.

PRESSURIZED PIPE AND COMPONENT LEAK MONITORING

On July 16, 2021, quarterly leak monitoring was performed in accordance with the LMR. SCS performed LFG pressurized pipe and component leak monitoring at the BFS. Monitoring was performed with the detector inlet held one-half of an inch from pressurized pipe and associated components. No locations exceeding the 500 ppmv threshold were observed during our monitoring event. The maximum reading, which was 432 ppmv, was below the maximum threshold (see Table 1 for component results). Therefore, all pressurized pipe and components located at the LFG BFS were in compliance at the time of our testing.

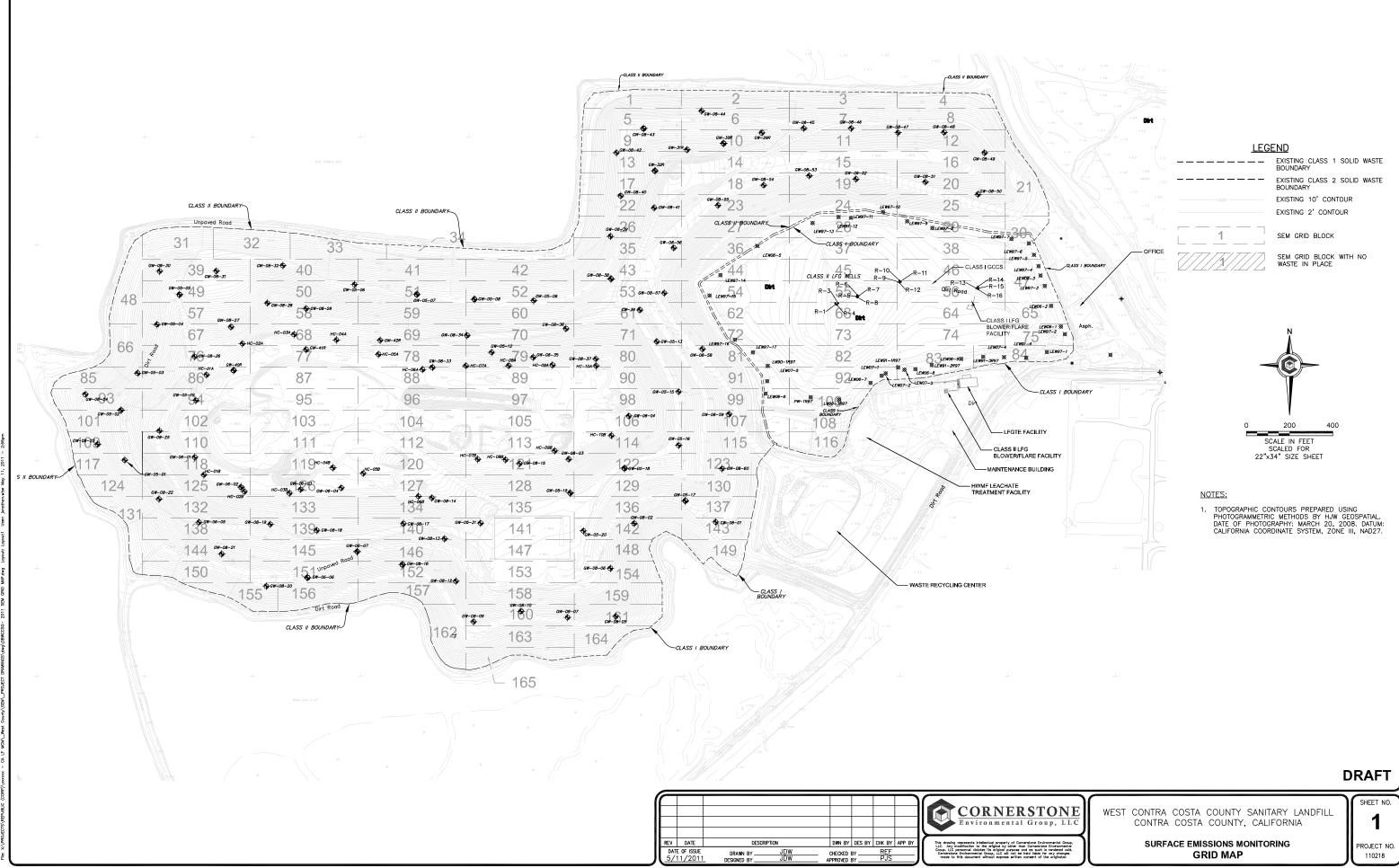
PROJECT SCHEDULE

In accordance with our approved Work Scope, the next quarterly NSPS event is scheduled to be performed by the end of December 2021, and the annual LMR event is scheduled to be performed by the end of calendar year 2022.

STANDARD PROVISIONS

This report addresses conditions of the subject site during the testing dates only. Accordingly, we assume no responsibility for any changes that may occur subsequent to our testing which could affect the surface emissions at the subject site or adjacent properties.

Landfill Grid

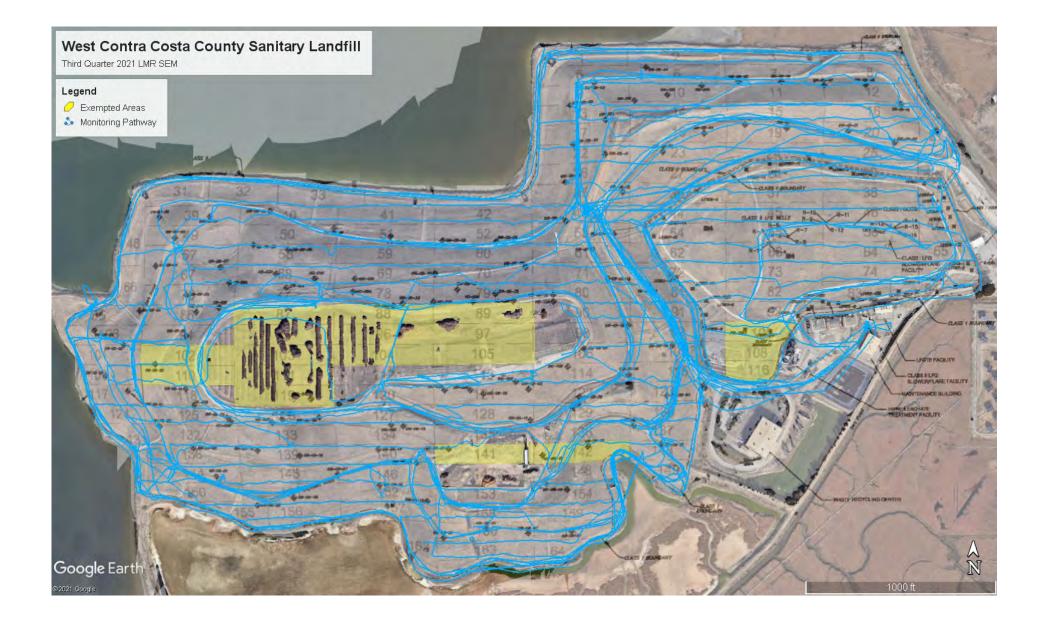


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1/2"

Surface Pathway



Third Quarter 2021 LMR Surface Emissions Monitoring Pathway West Contra Costa County Sanitary Landfill, Contra Costa County, California

Instantaneous and Component Emissions Monitoring Results

Third Quarter 2021 Table 1. LMR Instantaneous Surface and Component Emissions Monitoring Results West Contra Costa County Landfill, Contra Costa County, California

Instantaneous Data Report for July 9, 16, and 23, 2021 and August 13, 2021

Location	Latitude	Longitude	Initial Concentration (ppmv)	First 10-Day Concentration (ppmv)	30-Day Concentration (ppmv)
			July 16, 2021	July 23, 2021	August 13, 2021
PZ11R	37.968977°	-122.386257°	10,000	235	<500
QR12R	37.968926°	-122.386610°	20,000	8	305
QR30S	37.965444°	-122.385956°	631	4	350
QR45S	37.968350°	-122.386197°	1,000	29	3

Pressurized Pipe and Component Results

Route	Date	Concentration (ppmv)
Flare	7/16/2021	432

No other exceedances of the 200 or 500 ppm thresholds were observed during the monitoring performed during the fourth quarter 2020. The highest reading observed was 1,400 ppmv.



Initial and Follow-Up Emissions Monitoring Results Greater Than 500 ppmv West Contra Costa County Sanitary Landfill, Contra Costa County, California

Integrated Monitoring Results

Table 2. Integrated Surface Emissions Monitoring ResultsWest Contra Costa County Landfill, Contra Costa County, California

Point Name	Record Date	FID Concentration (ppm)	Comments
W.CoCo 001	7/16/2021	1.13	
W.CoCo 002	7/16/2021	1.20	
W.CoCo 003	7/16/2021	1.29	
W.CoCo 004	7/16/2021	1.00	
W.CoCo 005	7/16/2021	2.67	
W.CoCo 006	7/16/2021	2.79	
W.CoCo 007	7/16/2021	2.55	
W.CoCo 008	7/16/2021	2.76	
W.CoCo 009	7/16/2021	2.41	
W.CoCo 010	7/16/2021	2.65	
W.CoCo 011	7/16/2021	2.38	
W.CoCo 012	7/16/2021	2.24	
W.CoCo 013	7/16/2021	2.68	
W.CoCo 014	7/16/2021	2.98	
W.CoCo 015	7/16/2021	2.65	
W.CoCo 016	7/16/2021	2.67	
W.CoCo 017	7/16/2021	1.22	
W.CoCo 018	7/16/2021	1.17	
W.CoCo 019	7/16/2021	3.42	
W.CoCo 020	7/16/2021	1.02	
W.CoCo 021	7/16/2021	1.02	
W.CoCo 022	7/16/2021	2.96	
W.CoCo 023	7/16/2021	4.44	
W.CoCo 024	7/16/2021	2.57	
W.CoCo 025	7/16/2021	2.58	
W.CoCo 026	7/16/2021	2.80	
W.CoCo 027	7/16/2021	2.36	
W.CoCo 028	7/9/2021	1.75	
W.CoCo 029	7/9/2021	1.85	
W.CoCo 030	7/9/2021	1.63	
W.CoCo 031	7/16/2021	1.94	
W.CoCo 032	7/16/2021	1.95	
W.CoCo 033	7/16/2021	3.07	
W.CoCo 034	7/16/2021	3.99	
W.CoCo 035	7/16/2021	2.55	
W.CoCo 036	7/9/2021	2.10	
W.CoCo 037	7/9/2021	2.05	
W.CoCo 038	7/9/2021	2.22	
W.CoCo 039	7/16/2021	2.16	
W.CoCo 040	7/16/2021	2.38	
W.CoCo 041	7/16/2021	2.60	
W.CoCo 042	7/16/2021	2.46	
W.CoCo 043	7/16/2021	2.59	

SCS DataServices - Secure Environmental Data



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Table 2. Integrated Surface Emissions Monitoring ResultsWest Contra Costa County Landfill, Contra Costa County, California

Point Name	Record Date	FID Concentration (ppm)	Comments
W.CoCo 044	7/9/2021	1.71	
W.CoCo 045	7/9/2021	1.74	
W.CoCo 046	7/9/2021	2.00	
W.CoCo 047	7/9/2021	2.25	
W.CoCo 048	7/16/2021	1.16	
W.CoCo 049	7/16/2021	1.13	
W.CoCo 050	7/16/2021	0.71	
W.CoCo 051	7/16/2021	1.06	
W.CoCo 052	7/16/2021	0.97	
W.CoCo 053	7/16/2021	1.47	
W.CoCo 054	7/9/2021	2.12	
W.CoCo 055	7/9/2021	2.07	
W.CoCo 056	7/9/2021	2.03	
W.CoCo 057	7/16/2021	1.87	
W.CoCo 058	7/16/2021	2.15	
W.CoCo 059	7/16/2021	2.22	
W.CoCo 060	7/16/2021	2.53	
W.CoCo 061	7/16/2021	2.34	
W.CoCo 062	7/9/2021	1.70	
W.CoCo 063	7/9/2021	1.67	
W.CoCo 064	7/9/2021	2.30	
W.CoCo 065	7/9/2021	1.61	
W.CoCo 066	7/16/2021	2.03	
W.CoCo 067	7/16/2021	2.05	
W.CoCo 068	7/16/2021	2.30	
W.CoCo 069	7/16/2021	2.13	
W.CoCo 070	7/16/2021	2.68	
W.CoCo 071	7/16/2021	2.08	
W.CoCo 072	7/9/2021	2.22	
W.CoCo 073	7/9/2021	2.17	
W.CoCo 074	7/9/2021	2.11	
W.CoCo 075	7/9/2021	2.35	
W.CoCo 076	7/16/2021	2.08	
W.CoCo 077	7/16/2021	2.14	
W.CoCo 078	7/16/2021	2.02	
W.CoCo 079	7/16/2021	2.31	
W.CoCo 080	7/16/2021	2.25	
W.CoCo 081	7/9/2021	1.68	
W.CoCo 082	7/9/2021	1.64	
W.CoCo 083	7/9/2021	2.56	
W.CoCo 084	7/9/2021	1.57	
W.CoCo 085	7/16/2021	1.41	
W.CoCo 086	7/16/2021	2.05	



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Table 2. Integrated Surface Emissions Monitoring ResultsWest Contra Costa County Landfill, Contra Costa County, California

Point Name	Record Date	FID Concentration (ppm)	Comments
W.CoCo 087			Green waste
W.CoCo 088			Green waste
W.CoCo 089			Green waste
W.CoCo 090	7/16/2021	2.07	
W.CoCo 091	7/9/2021	1.61	
W.CoCo 092	7/9/2021	2.12	
W.CoCo 093	7/16/2021	1.10	
W.CoCo 094	7/16/2021	1.08	
W.CoCo 095			Green waste
W.CoCo 096			Green waste
W.CoCo 097			Green waste
W.CoCo 098	7/16/2021	0.73	
W.CoCo 099	7/16/2021	0.68	
W.CoCo 100			Leachate Pond
W.CoCo 101	7/16/2021	1.66	
W.CoCo 102			Green waste
W.CoCo 103			Green waste
W.CoCo 104			Green waste
W.CoCo 105			Green waste
W.CoCo 106	7/16/2021	1.48	
W.CoCo 107	7/16/2021	1.43	
W.CoCo 108			Leachate Pond
W.CoCo 109	7/16/2021	1.70	
W.CoCo 110			Green waste
W.CoCo 111			Green waste
W.CoCo 112	7/16/2021	1.85	
W.CoCo 113	7/16/2021	1.77	
W.CoCo 114	7/16/2021	1.85	
W.CoCo 115	7/16/2021	1.85	
W.CoCo 116			Leachate Pond
W.CoCo 117	7/16/2021	1.60	
W.CoCo 118	7/16/2021	1.64	
W.CoCo 119			Green waste
W.CoCo 120	7/16/2021	1.72	
W.CoCo 121	7/16/2021	1.68	
W.CoCo 122	7/16/2021	1.70	
W.CoCo 123	7/16/2021	1.74	
W.CoCo 124	7/16/2021	1.79	
W.CoCo 125	7/16/2021	1.88	
W.CoCo 126	7/16/2021	2.04	
W.CoCo 127	7/16/2021	1.91	
W.CoCo 128	7/16/2021	1.87	
W.CoCo 129	7/16/2021	2.00	



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Table 2. Integrated Surface Emissions Monitoring ResultsWest Contra Costa County Landfill, Contra Costa County, California

Point Name	Record Date	FID Concentration (ppm)	Comments
W.CoCo 130	7/16/2021	2.00	
W.CoCo 131	7/16/2021	1.01	
W.CoCo 132	7/16/2021	1.00	
W.CoCo 133	7/16/2021	1.08	
W.CoCo 134	7/16/2021	1.05	
W.CoCo 135	7/16/2021	1.01	
W.CoCo 136	7/16/2021	1.00	
W.CoCo 137	7/16/2021	1.01	
W.CoCo 138	7/16/2021	1.55	
W.CoCo 139	7/16/2021	1.51	
W.CoCo 140	7/16/2021	1.42	
W.CoCo 141			Active
W.CoCo 142			Active
W.CoCo 143	7/16/2021	1.46	
W.CoCo 144	7/16/2021	1.61	
W.CoCo 145	7/16/2021	1.59	
W.CoCo 146	7/16/2021	1.59	
W.CoCo 147	7/16/2021	1.59	
W.CoCo 148	7/16/2021	1.63	
W.CoCo 149	7/16/2021	1.17	
W.CoCo 150	7/16/2021	1.56	
W.CoCo 151	7/16/2021	1.56	
W.CoCo 152	7/16/2021	1.50	
W.CoCo 153	7/16/2021	1.50	
W.CoCo 154	7/16/2021	1.49	
W.CoCo 155	7/16/2021	1.70	
W.CoCo 156	7/16/2021	1.68	
W.CoCo 157	7/16/2021	1.68	
W.CoCo 158	7/16/2021	1.61	
W.CoCo 159	7/16/2021	1.63	
W.CoCo 160	7/16/2021	0.90	
W.CoCo 161	7/16/2021	0.98	
W.CoCo 162	7/16/2021	1.23	
W.CoCo 163	7/16/2021	1.25	
W.CoCo 164	7/16/2021	1.27	
W.CoCo 165	7/16/2021	1.87	

Calibration Logs

		SURFACE EMISSI			
		CALIBRATION AN	D PERTINEN	IT DATA	
Date:	7-9-2		Site Name:	WCC	
Inspector(s)	Huntere	rt-f	Instrument:	TVA 2020	
WEATHER	OBSERVATIONS			2	
Wind Sp	eed: MPH	Wind Direction:	-0 (P	Barometric Pressure: <u>29.9</u>	"Hg
Temperat	Air <u>79</u> *F	General Weathe Conditions	0 0.		
CALIBRATIC	ON INFORMATION				
Pre-monitor	ing Calibration Precision Check				
precision mu	e the average algebraic differences of the less than or equal to 10% of the less than or equal to 10\% of the less than or equal to 1			calibration gas as a percent Cal Gas Concentration;	age. The calibration
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas Co	oncCal Gas Reading	Response Time (sec
1	0	500		0	3
3	Ĭ .	501		· · · · · · · · · · · · · · · · · · ·	2
Calibration P	recision= Average Difference/Ca	I Gas Conc. X 100% = 100%	.7	/500 x 100%	
		= 99.8	%	,500 x 100 X	
Span Sensitiv	ity:				
<u>Trial 1:</u>	Counts Observed for the Span=	119358	<u>Trial 3:</u> Coun	nts Observed for the Span=	119388
	Counters Observed for the Zero=	4012	Counte	ers Observed for the Zero=	4000
<u>Trial 2:</u>	Counts Observed for the Span=	119375	-		
(Counters Observed for the Zero=	4009			
Post Monitor	ing Calibration Check				
Zero Air Reading:	ppm	Cal Gas Reading:	500	ppm	
BACKGROUN	D CONCENTRATIONS CHECK	5		× .	
Jpwind Locat	ion Description:	Flare Grid 36		Reading: 1.2	ppm
Downwind Lo	cation Description:	Grid36		Reading:	ррт
Notes:	Wind speed averages were o exceeded 20 miles per hour. meteorological conditions we	No rainfall had occurred w	ithin the previous	s 24 hours of the monitoring	g event. Therefore, sit

1 0 501 1 1 0 1			SURFACE EMISSI			
Inspector(s): LAAM McGrinh Instrument: TVA 2020 WEATHER OBSERVATIONS Wind Speed: Y MPH Direction: W Pressure: 2999 "He Air Temperature: 79 "F General Weather Cleak Air Temperature: 79 "F General Weather Cleak CALIBRATION INFORMATION Pre-monitoring Calibration Precision Check Procedure: Cloaker the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the reading and the calibration gas to percentage. The calibration precision must be less than a equal to 10% of the colibration gas value. Instrument Serial Number: Cal Gas Reading Cal Gas Reading Cal Gas Reading Response time (peconds) $\frac{1}{2} \frac{2}{0} \frac{5}{501} \frac{1}{1} \frac{1}{2} \frac{2}{2} \frac{1}{2} \frac{2}{50} \frac{5}{501} \frac{1}{1} \frac{1}{2} \frac{2}{2} \frac{2}{50} \frac{5}{501} \frac{1}{1} \frac{1}{2} \frac{2}{2} \frac{2}{50} \frac{5}{501} \frac{1}{1} \frac{1}{2} \frac{2}{2} \frac{2}{50} \frac{5}{501} \frac{1}{1} \frac{1}{2} \frac{2}{50} \frac{5}{501} \frac{1}{1} \frac{2}{2} \frac{2}{50} \frac{5}{50} \frac{1}{50} \frac{1}{1} \frac{1}{2} \frac{2}{50} \frac{5}{50} \frac{1}{50} \frac{1}{50} \frac{1}{500} \frac{1}{50} $			CALIBRATION AN	D PERTINEN	NT DATA	
WEATHER OBSERVATIONS Wind Speed: Yes Air Pressure: Air Pressure: Air General Weather Temperature: T General Weather Clean CallBration InFORMATION Pre-monitoring Calibration Precision Check Procedure: Calibration Precision Check Procedure: Calibration precision the instrument. Moke a total of three measurements by olternating zero air and the colibration gas a percentrage. The colibration percision must be less than or equal to 10% of the colibration gas value. Instrument Serial Number: Image: Calibration for Calibration for the colibration gas value. Instrument Serial Number: Image: Calibration for Calibration for the colibration gas value. Instrument Serial Number: Image: Calibration for the colibration gas value. Instrument Serial Number: Image: Calibration for the colibration gas value. Instrument Serial Number: Image: Calibration for the colibration gas value. Instrument Serial Number: Image: Calibration for the colibration gas value. Instrument Serial Number: Image: Calibration for the colibration gas value. Salibration Precision= Average Difference/Calibration for the colibration for the colib	Date:	7-9-2		Site Name:	WCC	
Wind Speed: Y MPH Direction: Wind Y Barometric Pressure: 29.9 "Hg Air Z q "F General Weather Clear Clear Transportation: Clear CALIBRATION INFORMATION Pre-sure: Z q "Hg Seneral Weather Clear Clear Procedure: Calibration Precision Check Presence: Calibration gas. Recard the readings and clucitate the instrument. Make a total of three measurements by atternating zero air and the calibration gas. Recard the readings and clucitate the average objective difference between the instrument reading and the calibration gas as o percentage. The colibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: Image: CaliGas Reading CaliGas ConcCal Gas Reading Responses Time (second) 1 2 500 1	Inspector(s):	_ Lian McGI	nn	Instrument:	TVA 2020	
Wind Speed: Y MPH Direction: W Pressure: 29.4 "Hg Air Temperature: Z 9 Second Weather Conditions: Clear Clear CALIBRATION INFORMATION Pre-monitoring Calibration Precision Check Pre-monitoring Calibration Precision Check Pre-monitoring calibration precision check Procedure: Calibration Precision Check Calibration gas as a percentage. The colibration precision must be less than or equal to 10% of the colibration gas value. Image: Calibration gas as a percentage. The colibration precision must be less than or equal to 10% of the colibration gas value. Instrument Serial Number: Image: Cal Gas Reading Cali Gas Conc Cali Gas Reading Response Time (seconds) 1 Q 50 (Image: Cali Gas Reading Response Time (seconds) 1 Q 50 (Image: Cali Gas Reading Response Time (seconds) 2 Q 50 (Image: Cali Gas Reading Response Time (seconds) 3 Q 50 (Image: Cali Gas Reading Response Time (seconds) 2 Q 50 (Image: CaliGas Conc. X 100% Image: Califorma Calibration (real/biton) (real/bi	WEATHER OBS	ERVATIONS			a.	
Temperature: *F Conditions: Conditis condition: Condition:	Wind Speed:	мрн			790	"Нд
Pre-monitoring Calibration Precision Check Procedure: Calibrate the instrument. Make to tail of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: 12223 Cal Gas Concentration: 500ppm Trial 2 ero Air Reading Cal Gas Reading ICal Gas Concentration: 500ppm Trial 2 ero Air Reading Cal Gas Reading ICal Gas Concentration: 500ppm Trial 2 ero Air Reading Cal Gas Reading ICal Gas Concentration: 900ppm Trial 2 ero Air Reading Cal Gas Concentration: 900ppm Trial 2 ero Air Reading Cal Gas Concentration: 900ppm Trial 2 ero Air Reading Cal Gas Concentration: 900ppm Trial 2 ero Air Reading Cal Gas Concentration: 900ppm Trial 2 ero Air Reading Cal Gas Concentration: 900ppm Trial 2 ero Air Precision Average Difference/Cal Gas Concentration: 900ppm Trial 2 ero Air Precision Average Difference/Cal Gas Concentration: 900ppm Trial 2 ero Average Difference/Cal Gas Concentration: 900pm Trial 2 ero Average Difference/Cal Gas Concentration: 900pm Eaglibration Precision Eaglibration Check Ero Air Counters Observed for the Zero 2 2 7 4 6 1 Eaglibration Concentration Check Ero Air Counters Observed for the Zero 2 2 7 4 6 1 Eaglibrate Eaglibration Check Ero Air Counters Observed for the Zero 2 2 7 4 6 1 Eaglibrate Eaglibration Check Ero Air Counters Observed for the Zero 2 2 7 6 2 Eag					-	
Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero or and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number:	CALIBRATION I	NFORMATION				
and calculate the average olgebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number:	Pre-monitoring (Calibration Precision Check				
$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{56}$ \frac	and calculate the precision must be	e average algebraic differenc e less than or equal to 10% o ا ع	e between the instrument		calibration gas as a percent	age. The calibration
2 3 50 1 4 3 56 1 4 4 Average Difference: Image difference is greater than 10 *Perform recalibration if average difference is greater than 10 Calibration Precision= Average Difference/Cal Gas Conc. X 100% = 100%/500 x 100% = 100%/500 x 100% = 97.8 Counts Observed for the Span= 12.7 46.1 Counters Observed for the Zero= 199.7 Counters Observed for the Zero= Counters Observed for the Span= 12.7 48.3 Counters Observed for the Zero= 20.7 G Counters Observed for the Zero= 20.7 G Counters Observed for the Zero= Counters Observed for the Zero= 20.7 G Counters Observed for the Zero= Counters Observed for the Zero= 20.7 G Counters Observed for the Zero= forst Monitoring Calibration Check Flare ero Air E Flare gending: Flare Reading: first dots Flare Reading:	Trial	Zero Air Reading		Cal Gas C	ConcCal Gas Reading	Response Time (seconds)
3 66 17 100% 3 $100%$ $100%3$ $100%$ $100%$ $100%3$ $100%$ $100%$ $100%3$ $100%$ $10%$					1	3
Average Difference: *Perform recalibration <i>II</i> average difference is greater than 10 Calibration Precision= Average Difference/Cal Gas Conc. X 100% = 100%/500 x 100% = 99.78 % Span Sensitivity: Trial 1: Counts Observed for the Span= 12.7 46.1 Counts Observed for the Span= 12.7 48.3 Counters Observed for the Zero= 199.7 Counters Observed for the Zero= 2.0 4.9 Trial 2: Counters Observed for the Zero= 2.0 7.6 Total Monitoring Calibration Check ero Air Leading: ppm Cal Gas Reading: ppm ACKGROUND CONCENTRATIONS CHECKS Ipwind Location Description: Flaze Reading: ppm totes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site		0				Z
Trial 1: Counts Observed for the Span= 12.7461 Trial 3: Counts Observed for the Span= 12.7361 Counters Observed for the Zero= 1997 Counters Observed for the Zero= 20.749 Trial 2: Counts Observed for the Span= 12.7483 Counters Observed for the Zero= 20.749 Counters Observed for the Zero= 20.766 Counters Observed for the Zero= 20.766 Post Monitoring Calibration Check Cal Gas 500 ppm VACKGROUND CONCENTRATIONS CHECKS Reading: 1.7 ppm Ipwind Location Description: Flace Reading: 1.7 ppm Investigation Check Reading: 1.7 ppm ppm Investigation Description: Flace Reading: 1.7 ppm Investigation Description: Flace Reading: 1.7 ppm Investigation Description: Vind Speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	Calibration Precis	sion= Average Difference/Cal	= 100%- = 998	%	_/500 x 100%	
Counts Observed for the Span= 12.7461 Counts Observed for the Span= 12.7361 Counters Observed for the Zero= 1997 Counters Observed for the Zero= 20.949 Initial 2: Counters Observed for the Span= 12.7483 Counters Observed for the Zero= 20.949 Initial 2: Counters Observed for the Span= 12.7483 Counters Observed for the Zero= 20.949 Counters Observed for the Zero= 20.76 Counters Observed for the Zero= 20.76 Post Monitoring Calibration Check Cal Gas SOO ppm Post Monitoring Calibration Check Vero Air 6 ppm Reading: SOO ppm VACKGROUND CONCENTRATIONS CHECKS Place Reading: 1.7 ppm Nownwind Location Description: Flace Reading: 1.9 ppm Nownwind Location Description: Flace Reading: 1.9 ppm Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	Span Sensitivity:			1		
Trial 2: Counts Observed for the Span= 12 7 483 Counters Observed for the Zero= 2076 Post Monitoring Calibration Check Vero Air Cal Gas Reading:			127461	Cou		
Counters Observed for the Zero= 2076 Post Monitoring Calibration Check Vero Air Cal Gas 500 ppm Reading: 6 ppm Reading: 500 ppm VACKGROUND CONCENTRATIONS CHECKS Flace Reading: 1.2 ppm Ipwind Location Description: $Flace$ Reading: 1.2 ppm Iownwind Location Description: $Flace$ $Flace$ $Flace$ $Flace$	Cour Trial 2:	iters Observed for the Zero=		Count	ers Observed for the Zero=	2099
Post Monitoring Calibration Check leading: <u>6</u> ppm Cal Gas Reading: <u>500</u> ppm EACKGROUND CONCENTRATIONS CHECKS Upwind Location Description: <u>Flace</u> Nownwind Location Description: <u>Flace</u> Nownwind Location Description: <u>Flace</u> No speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	Соц	unts Observed for the Span=	12/483			
Areo Air leading: \mathcal{O}_{al} ppm $Cal GasReading:500 ppmCal GasReading:500 ppmCACKGROUND CONCENTRATIONS CHECKSUpwind Location Description:FlareGrid 36Reading:1.7 ppmReading:Invonwind Location Description:FlareGrid 36Reading:1.7 ppmppmNotes:Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speedsexceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site$	Coun	ters Observed for the Zero=	2016			
Leading:	Post Monitoring C	Calibration Check				
Ipwind Location Description: Flare Reading: 1.2 ppm Inownwind Location Description: Image: 1.4 ppm Inotes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	Zero Air Reading:	<u> </u>		500	ppm	
lotes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	BACKGROUND C	CONCENTRATIONS CHECKS				
lotes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	Jpwind Location I	Description:	Flare			
exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	Downwind Locatio	on Description:	Grud 36		Reading:	ppm
111 - 222, AL SAM DO THE DE DOADAN	e	exceeded 20 miles per hour.	No rainfall had occurred w	ithin the previou	s 24 hours of the monitorin	g event. Therefore, site

			ONS MONITORING D PERTINENT DATA	
Date:	7-9-2	-1	Site Name:	C
Inspector(s):	Lan		Instrument: TVA 2020	
WEATHER OB	SERVATIONS			
Wind Speed	d:МРН	Wind Direction:	Barometric Pressure:	29.9 "Hg
Ai Temperature		General Weather Conditions		
CALIBRATION	INFORMATION			
Pre-monitoring	Calibration Precision Check			
and calculate th	he average algebraic different be less than or equal to 10%	ice between the instrument i	reading and the calibration gas as Cal Gas Conce	
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas ConcCal Gas Read	ding Response Time (second
1		501	1	7
2	0	50~	0	7
3 Calibration Prec	ision= Average Difference/Ca	Average Difference: al Gas Conc. X 100%	*Perform recalibration if average difference is	greater than 10
	ision= Average Difference/Ca	Average Difference:		
	ision= Average Difference/Ca	Average Difference: al Gas Conc. X 100%	*Perform recalibration if average difference is	
		Average Difference: al Gas Conc. X 100% = 100% = $99.\%$	*Perform recalibration if average difference is	
Calibration Prec Span Sensitivity: Trial 1:		Average Difference: al Gas Conc. X 100% = 100%- = 9978	*Perform recalibration if average difference is	greater than 10
Calibration Prec Span Sensitivity: Trial 1: Cou		Average Difference: al Gas Conc. X 100% = 100%- = 99.78 = 12.6512	*Perform recalibration if average difference is //500 x 100% % Irial 3:	rgreater than 10
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2:	: Dunts Observed for the Span-	Average Difference: al Gas Conc. X 100% = 100% = 99.78 = 125512 = 2-193 = 100%	*Perform recalibration if average difference is //500 x 100% % Irial 3: Counts Observed for t	the Span=
Calibration Prec Span Sensitivity: <u>Trial 1:</u> Cou <u>Trial 2:</u> Cou	: ounts Observed for the Span Inters Observed for the Zero-	Average Difference: al Gas Conc. X 100% = 100% - = 9978 = 125512 = 2193 = 118652 = 2284	*Perform recalibration if average difference is //500 x 100% % Irial 3: Counts Observed for t	rgreater than 10
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Cou	counts Observed for the Span- inters Observed for the Zero- pounts Observed for the Span-	Average Difference: al Gas Conc. X 100% = 100% - = 9978 = 125512 = 2193 = 118652 = 2284	*Perform recalibration if average difference is //500 x 100% % Irial 3: Counts Observed for t	rgreater than 10
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Cou	cunts Observed for the Span Inters Observed for the Zero Dunts Observed for the Span Inters Observed for the Zero	Average Difference: al Gas Conc. X 100% = 100% - = 9978 = 125512 = 2193 = 118652 = 2284	*Perform recalibration if average difference is //500 x 100% % Irial 3: Counts Observed for t	rgreater than 10
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Cou Post Monitoring Zero Air Reading:	ounts Observed for the Span- inters Observed for the Zero- ounts Observed for the Span- inters Observed for the Zero- Calibration Check	Average Difference: al Gas Conc. X 100% = 100% = 99.78 = 125512 = 2.193 = 1.18652 = 2.39 Cal Gas Reading:	*Perform recalibration if average difference is //500 x 100% % Irial 3: Counts Observed for the Counters Observed for the	r greater than 10 the Span=
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Cou Post Monitoring Zero Air Reading:	concentrations check	Average Difference: al Gas Conc. X 100% = 100% = 99.78 = 125512 = 2.193 = 1.18652 = 2.39 Cal Gas Reading:	*Perform recalibration if average difference is //500 x 100% % Irial 3: Counts Observed for the Counters Observed for the	rgreater than 10
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Cou Post Monitoring Zero Air Reading: BACKGROUND	concentrations check	Average Difference: al Gas Conc. X 100% = 100% = 99.78 = 125512 = 2.193 = 1.18652 = 2.39 Cal Gas Reading:	*Perform recalibration if average difference is //500 x 100% % Irial 3: Counts Observed for Counters Observed for	r greater than 10 the Span= <u>116508</u> the Zero= 2-173

	SURFACE EMISSIONS MONITORING CALIBRATION AND PERTINENT DATA							
-		7-9-2	CALIBRATION AN	D PERTINEN				
1	Date:			Site Name:	wee			
	inspector(s):	tunter		Instrument:	TVA 2020			
	WEATHER OB	SERVATIONS			2			
	Wind Speed	: МРН	Wind Direction:	_	Barometric Pressure: 29-9	"Hg		
	Air Temperature		General Weathe Condition		-			
	CALIBRATION	INFORMATION						
	Pre-monitoring	Calibration Precision Check						
	and calculate th	orate the instrument. Make a e average algebraic differenc re less than or equal to 10% oj	e between the instrument	reading and the a	zero air and the calibratio calibration gas as a percent	n gas. Record the readings tage. The calibration		
	Instrument Seria	Il Number: 54	15		Cal Gas Concentration:	500ppm		
	Trial 1	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds)		
	2		502		2	3		
	3	-0	501			3		
0	Calibration Preci	sion= Average Difference/Cal	Average Difference: Gas Conc. X 100%	*Perform recalibration	if average difference is greater than] 10		
			= 100%		/500 x 100%			
			= 99,8	%				
	Span Sensitivity:							
	<u>Trial 1:</u> Co	unts Observed for the Span=	117300	Trial 3: Cour	ts Observed for the Span=	116480		
		nters Observed for the Zero=	4143	Counte	ers Observed for the Zero=	4080		
	<u>Trial 2:</u> Co	unts Observed for the Span=	116740	_				
	Cour	nters Observed for the Zero=	5119					
	Post Monitoring	Calibration Check						
	Zero Air Reading: -	ppm	Cal Gas Reading:	500	ppm			
	BACKGROUND	CONCENTRATIONS CHECKS						
\bigcirc	Upwind Location	Description:	Flare	ē	Reading:	ppm		
	Downwind Locati	on Description:	brid 36	e -	Reading:	ppm		
	e	Nind speed averages were ob exceeded 20 miles per hour. neteorological conditions we	No rainfall had occurred w	ithin the previous	24 hours of the monitorin MR requirements on the a	g event. Therefore, site bove mentioned date.		
RANG	A Strange of the second	Careful and the second of the		A CONTRACTOR OF A CONTRACTOR	_ ton too _ F.			

COS DULLE CALLER C

1		SURFACE EMISSIO	ONS MONI	TORING	
		CALIBRATION AND		NT DATA	
Date:	7-16-21		Site Name:	well	
Inspector(s):	Mais		Instrument:	TVA 2020	
WEATHER OB	SERVATIONS			2	
Wind Speed	нмрн	Wind Direction:	£.	Barometric Pressure:	
Ai Temperature		General Weather Conditions:		= 0	
CALIBRATION	INFORMATION				
Pre-monitoring	Calibration Precision Check				
and calculate th	brate the instrument. Make a he average algebraic difference be less than or equal to 10% o al Number:	e between the instrument r			
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	ConcCal Gas Reading	Response Time (secor
2		49			3
4					
3 Calibration Prec	ision= Average Difference/Cal		*Perform recalibratio	n if average difference is greater than]
	0	Soo Average Difference:	*Perform recalibratio]
	0	Average Difference: [*Perform recalibratio	n if average difference is greater than]
Calibration Prec	ision= Average Difference/Cal	Average Difference: Gas Conc. X 100% = 100%-	*Perform recalibratio	n if average difference is greater than]
Calibration Prec Span Sensitivity: Trial 1:	ision= Average Difference/Cal	S 00 Average Difference: Gas Conc. X 100% = 100%- = 99.~	% Trial 3:	n if average difference is greater than	
Calibration Prec Span Sensitivity: Trial 1: Cou	ision= Average Difference/Cal	Average Difference: Gas Conc. X 100% = 100%- = 99.5 2.7.7.7	% Trial <u>3:</u> Cour	n if average difference is greater than /500 x 100%	128132
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2:	ision= Average Difference/Cal	Average Difference: Gas Conc. X 100% = 100%- = 99.8 21777 2847	% Trial <u>3:</u> Cour	n if average difference is greater than _/500 x 100% nts Observed for the Span=	128132
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Co	ision= Average Difference/Cal punts Observed for the Span= nters Observed for the Zero=	Average Difference: Gas Conc. X 100% = 100%- = 99.% 2777Z 2847 121946	% Trial <u>3:</u> Cour	n if average difference is greater than _/500 x 100% nts Observed for the Span=	128132
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Cou	ision= Average Difference/Cal punts Observed for the Span= nters Observed for the Zero= punts Observed for the Span=	Average Difference: Gas Conc. X 100% = 100%- = 99.% 2777Z 2847 121946	% Trial <u>3:</u> Cour	n if average difference is greater than _/500 x 100% nts Observed for the Span=	128132
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Cou	ision= Average Difference/Cal punts Observed for the Span= nters Observed for the Zero= punts Observed for the Span= nters Observed for the Span=	Average Difference: Gas Conc. X 100% = 100%- = 99.% 2777Z 2847 121946	% Trial <u>3:</u> Cour	n if average difference is greater than _/500 x 100% nts Observed for the Span=	128132
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Cou Post Monitoring Zero Air Reading:	ision= Average Difference/Cal punts Observed for the Span= nters Observed for the Zero= punts Observed for the Span= nters Observed for the Span= Calibration Check	S 00 Average Difference: Gas Conc. X 100% = 100%- = 99.5 21772 2847 121 946 2868 Cal Gas Reading:	% Trial 3: Count	n if average difference is greater than _/500 x 100% nts Observed for the Span= ers Observed for the Zero=	128132
Calibration Prec Span Sensitivity: Trial 1: Cou Trial 2: Cou Post Monitoring Zero Air Reading:	ision= Average Difference/Cal punts Observed for the Span= nters Observed for the Zero= punts Observed for the Span= nters Observed for the Span= Calibration Check Concentrations checks	S 00 Average Difference: Gas Conc. X 100% = 100%- = 99.5 21772 2847 121 946 2868 Cal Gas Reading:	% Trial 3: Count	ppm	128132
Calibration Prec Span Sensitivity: Trial 1: Co Cou Trial 2: Co Cou Post Monitoring Zero Air Reading: BACKGROUND	ision= Average Difference/Cal punts Observed for the Span= nters Observed for the Zero= punts Observed for the Span= nters Observed for the Span= Calibration Check	Average Difference: Gas Conc. X 100% = 100% = 99.% 21772 2847 121946 2868 Cal Gas Reading:	% Trial 3: Count	n if average difference is greater than _/500 x 100% hts Observed for the Span= ers Observed for the Zero= ppm Reading:	128132

CALIBRATION AND PERTINENT DATA Date::::::::::::::::::::::::::::::::::::				SURFACE EMISS			
Inspector(k): Liam Instrument: TVA 2020 WEATHER OBSERVATIONS Wind Speed: 14 MIPH Direction: SSL Barometric Pressure: 29.9 Hg Air Temperature: 64 F CALIBRATION INFORMATION Pre-monitoring Calibration Precision Chack Procedure: Colorist the instrument, Make a total of three measurements by alternating zero air and the calibration gas. Recard the read and calculate the average algebraic difference between the instrument reading and the calibration gas. Recard the read and calculate the average algebraic difference between the instrument reading and the calibration gas. Recard the read and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration prection must be less than or equal to 20% of the calibration gas value. Instrument Serial Number: 12.11 Calibration Precision: 500ppm Trial 2 Calibration and the calibration gas of a percentage. The calibration and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 20% of the calibration gas value. Instruments frial Number: 12.11 Calibration Precision: 500ppm Trial 2 Calibration Precision: 500ppm Trial 2 Calibration Gas Reading Calibration gas value. Calibration Precision: 4.00% Calibration Precision: 5.00 Calibration Precision: 4.00% Calibration Precision: 4.00% Calibration Precision: 4.00% Calibration Precision: 4.00% Calibration Precision: 5.00 Calibration Precision: 5.00 Calibration Precision: 5.00 Calibration Precision: 4.00% Calibration Precision: 4.00% Calibration Precision: 5.00 Calibra				CALIBRATION AN		ΙΤ ΟΑΤΑ	
WEATHER OBSERVATIONS Wind Speed: 14 MPH Direction: SSL Barometric Pressue: 2.9.9 "Hg Ar General Weather Conditions: Clearn Clearn CallBRATION INFORMATION Pre-monitoring Calibration Precision Check Proceedure: CallBRATION INFORMATION Pre-monitoring Calibration precision Check Proceedure: Call Gas Concentration SOOppm Instrument Serial Number: [] 2.11 Call Gas Concentration: SOOppm Trail Zero Air Reading Call Gas Concentration: SOOppm Trial Zero Air Reading Call Gas Concentration: SOOppm Trial Zero Air Reading Call Gas Concentration: SOOppm Verage Difference:		Date:	7-16-21		Site Name:	WCC	
Wind Speed: 14 MPH Direction: SSL Barometric Pressure: 2.9.9 "Hg Air Air General Weather Clock Clock Pressure: 2.9.9 "Hg CALIBRATION INFORMATION Pre-monitoring Calibration Precision Check Pre-monitoring Calibration Precision Check Pre-monitoring calibration precision Check Pre-monitoring geno air and the calibration gas as a percentage. The calibration gas and precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: 12.11 Cal Gas Concentration: 500pm Trial 2 or 0 ir feeding Cal Gas Reading Cal Gas Concentration: 500pm Verage Difference/Cal Gas Conc. X 100% = 100% _ 3 _ 1/500 x 100% = 100% _ 3 _ 1/500 x 100% Span Sensitivity: Trial 1: Counters Observed for the Span= 12 7 5/13 Counters Observed for the Span= 12 7 5/13 Counters Observed for the Zeroo: 2 7 4/0 Post Monitoring Calibration Description: _ 2 3/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2 _ 2 1/2		Inspector(s):	Liam		instrument:	TVA 2020	
Wind Speed: MP Direction: Ski Pressure: 2.9.9 "Hg Air Temperature: Air General Weather Conditions: Clear Clear Conditions: Clear CALIBRATION INFORMATION Pre-monitoring Calibration Precision Check Precedure: Calibrate the instrument. Make a total of three measurements by alternating area at and the calibration gas. Record the read and calculate the average laptoptic difference between the instrument reading and the calibration gas os a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: 12/1 Cal Gas Reading Cal Gas Reading Response Time (second a second and calculate the average laptoptic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: 12/1 Cal Gas Reading Cal Gas Reading Response Time (second a second a grater than 10 Average Difference: -5 -5 -5 -5 Average Difference/Cal Gas Conc. X 100% = 100%5 /500 x 100% Calibration Precision- Average Difference/Cal Gas Conc. X 100% = 12.7 2.12 Counters Observed for the Span- 12.7 2.12 Counters Observed for the Span- 12.8 0.04 Trial 3: <td< th=""><th></th><th>WEATHER OBS</th><th>ERVATIONS</th><th></th><th></th><th>2</th><th></th></td<>		WEATHER OBS	ERVATIONS			2	
Temperature: 9 F Conditions: Clear CALIBRATION INFORMATION Pre-monitoring Calibration Precision Check Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the read and calculate the average algebraic difference between the instrument reading and the calibration gas or a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: 12.11 Cal Gas Reading Cal Gas Concentration: Sooppm Trial 2 0 500 3 3 1 Sooppm Trial 2 0 500 3		Wind Speed:	14 мрн	· · · · · · · · · · · · · · · · · · ·	,		
Pre-monitoring Calibration Precision Check Procedure: Calibration Precision Check Procedure: Calibrate the instrument. Make a tatal of three measurements by alternating zero air and the calibration gas as a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: Image:			64 °F				
Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas as a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: [2]/	ŀ	CALIBRATION II	NFORMATION				
and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: 1 2 1 1 Trial Zero Air Reading Cal Gas Reading [Cal Gas Concentration: S00ppm Trial Zero Air Reading Cal Gas Reading [Cal Gas Concentration: S00ppm 1 1 501 (3 2 0 5000 3 3 -1 5000 3 Average Difference:	F	Pre-monitoring C	alibration Precision Check				
Trial Zero Air Reading Cal Gas Reading [Cal Gas ConcCal Gas Reading] Response Time (sect 3 2 0 500 3 500 3 500 3 3 1 500 3 500 3 3 500 3 Average Difference: .3 .1 500 3 3 .1 500 3 Average Difference/Cal Gas Conc. X 100% = 100% .3 /500 x 100% = 40/4 % .3 /500 x 100% = 100% .3 /500 x 100% .3 /500 x 100% = 100% .3 /500 x 100% .4 % Span Sensitivity: Trial 3: Counts Observed for the Span= 12.7 £12 Counters Observed for the Zero= 2.8 # 4 Counters Observed for the Zero= 2.9 # 4 Counters Observed for the Zero= 2.7 & 6/0 Trial 2: Counters Observed for the Zero= 7.7 & 3 Post Monitoring Calibration Check Zero Air Reading: .2 ppm ppm Cal Gas Reading: </th <th>c</th> <th>and calculate the</th> <th>average algebraic difference</th> <th>e between the instrument</th> <th>t reading and the</th> <th>g zero air and the calibratio calibration gas as a percent</th> <th>n gas. Record the readings tage. The calibration</th>	c	and calculate the	average algebraic difference	e between the instrument	t reading and the	g zero air and the calibratio calibration gas as a percent	n gas. Record the readings tage. The calibration
$\frac{1}{2} \frac{1}{2} \frac{1}$	1	nstrument Serial	Number: 1211			Cal Gas Concentration:	500ppm
2 0 500 3 3 -1 500 3 Average Difference:	T				Cal Gas C	oncCal Gas Reading	Response Time (seconds)
3 1 500 3 Average Difference: 15 *Perform recalibration if average difference is greater than 10 Calibration Precision= Average Difference/Cal Gas Conc. X 100% = 100%- .3 /500 x 100% = 12.7 £12 Counts Observed for the Span= 12.7 £12 Counters Observed for the Span= 12.7 £13 Counters Observed for the Span= 12.7 £13 Counters Observed for the Zeroe 2.7 43 Post Monitoring Calibration Check Zero Air Cal Gas Reading: 10 ppm BACKGROUND CONCENTRATIONS CHECKS Image: 1.2 ppm Upwind Location Description: 6.36 Reading: 1.4 ppm Notes: Wind speed averages were observed to remain below the alternative requested						0	3
*Perform recalibration if average difference is greater than 10 Calibration Precision= Average Difference/Cal Gas Conc. X 100% = 100%- 3 /500 x 100% = 127212 Counts Observed for the Span= 127212 Counters Observed for the Zero= 2 0 4 4 Counters Observed for the Zero= 2 0 4 4 Counters Observed for the Zero= 2 0 4 4 Counters Observed for the Zero= 2 7 43 Counters Observed for the Zero= 2 7 43 Post Monitoring Calibration Check Zero Air Cal Gas Reading: 0 ppm Reading: Description: 636 Reading: 1 M Downwind Location Description: 636 Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous sp exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, sto		3					
Span Sensitivity: Trial 1: Counts Observed for the Span= 128004 Trial 3: Counts Observed for the Span= 127212 Counters Observed for the Zero= 2844 Counters Observed for the Zero= 2760 Trial 2: Counters Observed for the Span= 127543 Counters Observed for the Zero= 2760 Trial 2: Counters Observed for the Zero= 2793 Post Monitoring Calibration Check Zero Air Cal Gas Span Reading:	с	alibration Precis	ion= Average Difference/Cal	= 100%	. 3	_/500 x 100%	
Trial 1: Counts Observed for the Span= 128004 Trial 3: Counts Observed for the Span= 127212 Counters Observed for the Zero= 2844 Counters Observed for the Zero= 2760 Trial 2: Counters Observed for the Span= 127543 Counters Observed for the Zero= 2793 Post Monitoring Calibration Check Cal Gas SUD_ppm ppm BACKGROUND CONCENTRATIONS CHECKS Vupwind Location Description: Flor C Reading: 1.2 ppm Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous sp exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site				= 44191	70		
Trial 2: Counts Observed for the Span= 12.7 543 Counters Observed for the Zero= 2.7 93 Post Monitoring Calibration Check Zero Air Cal Gas Reading: 0 ppm BACKGROUND CONCENTRATIONS CHECKS Upwind Location Description: Flanc BackGround Location Description: Flanc Reading: 1.2 Downwind Location Description: 63.6 Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous sp exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site		rial 1:	nts Observed for the Span=	128004	- A CONTRACTOR OF A CONTRACTOR OF	nts Observed for the Span≠	127212
Trial 2: Counts Observed for the Span= 12.7 543 Counters Observed for the Zero= 2.7 93 Post Monitoring Calibration Check Zero Air Cal Gas Reading: 0 ppm BACKGROUND CONCENTRATIONS CHECKS Upwind Location Description: Flanc BackGround Location Description: Flanc Reading: 1.2 Downwind Location Description: 63.6 Reading: 1.2 Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous sp exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site		Coun	ters Observed for the Zero=	2844	Count	ers Observed for the Zero=	7.760
Post Monitoring Calibration Check Zero Air Reading: ppm Cal Gas Reading: ppm BACKGROUND CONCENTRATIONS CHECKS Upwind Location Description: Flanc Reading: ppm Downwind Location Description: 636 Reading: ppm Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous sp exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	Ţī		nts Observed for the Span=	127543			
Zero Air O ppm Cal Gas Reading: O ppm Reading: SOO ppm BACKGROUND CONCENTRATIONS CHECKS Image: Soo Image: Soo Image: Soo ppm Downwind Location Description: Image: Soo Image: Soo Image: Soo ppm Downwind Location Description: Image: Soo Image: Soo Image: Soo ppm Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous sp exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site		Count	ters Observed for the Zero=	2793			
Reading: Uppm Reading: SUD_ppm BACKGROUND CONCENTRATIONS CHECKS Reading: Notes: Notes: Flance Reading: Notes: Ppm Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous sp exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	Pc	ost Monitoring C	alibration Check				
Upwind Location Description: Flore Reading: 1.2 ppm Downwind Location Description: 636 Reading: 1.2 ppm Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous sp exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site			0ppm		500	ppm	
Downwind Location Description: C36 Reading: Number of the second s	ВА	ACKGROUND C	ONCENTRATIONS CHECKS				
Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous sp exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site) [Up	owind Location E	Description	Flare	.	Reading: <u>\.2</u>	ppm
exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site	Do	ownwind Locatio	n Description:	G36	-	Reading: 1.W	ppm
meteorological conditions were within the requested alternatives of the Livik requirements on the above mentioned date.	No	e	ceeded 20 miles per hour. I	No rainfall had occurred v	vithin the previou	s 24 hours of the monitorin LMR requirements on the a	g event. Therefore, site bove mentioned date.

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			SURFACE EMISSI	ONS MONIT	ORING	
			CALIBRATION AN	D PERTINEN	IT DATA	
\cap	Date:	7-16-21		Site Name:	WCC	
	Inspector(s):	Don G		Instrument:	TVA 2020	
	WEATHER OB	SERVATIONS			18	
	Wind Speed	мрн	Wind Direction:	2	Barometric Pressure: 29,99	_("нg
	Air Temperature		General Weathe Conditions	and the second	<u>-</u>)	
	CALIBRATION	INFORMATION				
	Pre-monitoring	Calibration Precision Check				
	and calculate th	prate the instrument. Make a be average algebraic difference be less than or equal to 10% of al Number;	e between the instrument .			
	Trial	Zoro Air Deading	Col Cos Poodina			
	1	Zero Air Reading	Cal Gas Reading	I Cal Gas C	oncCal Gas Reading	Response Time (seconds)
	2		501		<u>``</u>	
	3	- (502		2	3
0	Calibration Preci	sion= Average Difference/Cal	Average Difference: Gas Conc. X 100% = 100%-	12	• 3 If average difference is greater than /500 x 100%	10
			=99.7		,300 x 100 x	
	Span Sensitivity:					
	Trial 1:	unts Observed for the Span=	152848	<u>Trial 3:</u> Cour	nts Observed for the Span=	153129
		nters Observed for the Zero=	3219	Count	ers Observed for the Zero=	3269
		unts Observed for the Span=	and the second se			
	Cour	nters Observed for the Zero=	3298	C.		
	Post Monitoring	Calibration Check				
	Zero Air Reading:	ppm_	Cal Gas Reading:	500	ppm	
	BACKGROUND	CONCENTRATIONS CHECKS				
\bigcirc	Upwind Location	Description:			Reading: 1-2	ppm
	Downwind Locati	on Description:			Reading:	ppm
		Wind speed averages were ob exceeded 20 miles per hour. I meteorological conditions we	No rainfall had occurred w re within the requested alt	ithin the previous ernatives of the I	s 24 hours of the monitorin LMR requirements on the a	g event. Therefore, site bove mentioned date.
REAR	18	A		Section States	Man tot and Ball	4 ²

					post
		SURFACE EMISSI			
		CALIBRATION ANI	D PERTINE	NT DATA	
Date:	07-16-21		Site Name:	WAC	
Inspector(s)	07-16-21 Don G		Instrument:	TVA 2020	
WEATHER OBS	ERVATIONS			₹.	
		Wind		Barometric	
Wind Speed:	<u>1</u> И МРН	Direction: 5.50	=	Pressure: 29.9	"Hg
Air Temperature:	, 1/	General Weather Conditions	Cleor	_ .	
CALIBRATION I	INFORMATION				
Pre-monitoring (Calibration Precision Check				
and calculate th	orate the instrument. Make a e average algebraic differenc e less than or equal to 10% oj	e between the instrument	reading and the		
Instrument Seria	I Number: 1153			Cal Gas Concentration;	500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas	ConcCal Gas Reading	Response Time (seconds)
1	• 1	500		0	3
2	.0	108		2	3
		= 100%- = 99.5	2.3 %	_/500 x 100%	
Span Sensitivity:					
<u>Frial 1:</u> Co	ounts Observed for the Span=	153 130	Trial 3: Cou	unts Observed for the Span=	152423
Cou	nters Observed for the Zero=	32 47	Cour	ters Observed for the Zero=	3213
T rial 2: Co	ounts Observed for the Span=	152802			
	nters Observed for the Zero=	32 43			
Post Monitoring	Calibration Check				
Zero Air		Cal Gas			
Reading:	0ppm	Reading:	500	_ppm	
BACKGROUND	CONCENTRATIONS CHECKS	5			
Jpwind Location	Description:	Hare	-	Reading:	ppm
Ownwind Locat	ion Description:	636	-	Reading:	ppm
	Wind speed averages were o exceeded 20 miles per hour. meteorological conditions we	No rainfall had occurred w	vithin the previo	us 24 hours of the monitorin	ng event. Therefore, site

1.1	1	- 10	-	1.1	1		- 0	1000	-			\mathcal{O}						1	100						10	-			3										- C I	-			100		
М	e	4	S.	21	2.7	01	11		5	12	Y		G	e	10	-	2	0-	T	-	2	V	17	7	1	7	N	78	1	X	•	5	15	1	18	3	4	12	61	 Ð	E.	1	Y	1	

		Vve
	SURFACE EMISS	IONS MONITORING
	CALIBRATION AN	ND PERTINENT DATA
1	Date: 7-16-21	Site Name: WCC
	Inspector(s): HUNTERO	Instrument; TVA 2020
	WEATHER OBSERVATIONS	
	Wind Speed: <u>MPH</u> Air <u>General Weath</u> Temperature: <u>SU</u> *F Condition	
	Pre-monitoring Calibration Precision Check	
	Procedure: Calibrate the instrument. Make a total of three measureme and calculate the average algebraic difference between the instrument precision must be less than or equal to 10% of the calibration gas value	
	Instrument Serial Number 5420	Cal Gas Concentration: 500ppm
	Trial Zero Air Reading Cal Gas Reading	Cal Gas ConcCal Gas Reading Response Time (seconds)
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 5
	3 .0 500	3 3
0	Average Difference:	*Perform recalibration if average difference is greater than 10
	Calibration Precision= Average Difference/Cal Gas Conc. X 100% = 100%	6/500 x 100%
	= 99.8	%
	Span Sensitivity:	
	Trial 1:	Trial 3:
	Counts Observed for the Span= 135584	Counts Observed for the Span= $\sqrt{>>}$ 937
	Counters Observed for the Zero= <1005	Counters Observed for the Zero= 9137
	Counts Observed for the Span=	
	Counters Observed for the Zero= 909	
	Post Monitoring Calibration Check	
	Zero Air Cal Gas Reading: <u> </u>	500 ppm
	BACKGROUND CONCENTRATIONS CHECKS	
\cup	Upwind Location Description:	Reading: <u>\-2</u> ppm
	Downwind Location Description:	Reading: 1.5 ppm
	exceeded 20 miles per hour. No rainfall had occurred v	the alternative requested 10 miles per hour and no instantaneous speeds within the previous 24 hours of the monitoring event. Therefore, site lternatives of the LMR requirements on the above mentioned date.

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			-		POST
		SURFACE EMISSIO			
		CALIBRATION ANI) PERTINEN	IT DATA	
Date:	07-16-21		Site Name:	UCC	
Inspector(s):	07-16-21 Hunter		Instrument:	TVA 2020	
WEATHER OBS	ERVATIONS				
Wind Speed:	<u>14</u> мрн	Wind Direction: <u> </u>	_	Barometric Pressure: 29.9	"Hg
Air Temperature:		General Weather Conditions:	<u></u>	_	
CALIBRATION I	NFORMATION				
Pre-monitoring (Calibration Precision Check				
and calculate the	rate the instrument. Make a e average algebraic differenc e less than or equal to 10% o I Number:	e between the instrument r f the calibration gas value.	reading and the		age. The calibration
Trial				Conc. Col. Cos Booding1	Response Time (seco
Trial 1	Zero Air Reading	Cal Gas Reading		ConcCal Gas Reading	Response Time (secol
2	.1	500	0		3
3	· 0	500	1		3
2		= 100%- = 99.9	- <u>6</u> %	/500 x 100%	
Span Sensitivity:					
<u>Frial 1:</u>	unts Observed for the Span=	136009	Trial 3: Cou	ints Observed for the Span=	135 803
Cour	nters Observed for the Zero=	4132	Coun	ters Observed for the Zero=	4072
<u>Frial 2:</u> Co	unts Observed for the Span=	136152			
Cour	nters Observed for the Zero=	4098			
Post Monitoring	Calibration Check				
Zero Air Reading:	O ppm	Cal Gas Reading:	500	_ppm	
BACKGROUND	CONCENTRATIONS CHECK	S			
Jpwind Location	Description:	Flare		Reading: (.3	ppm
Downwind Locati	ion Description:	636	é	Reading: <u>1.6</u>	ppm
	Wind speed averages were o exceeded 20 miles per hour. meteorological conditions w	No rainfall had occurred w	vithin the previou	us 24 hours of the monitorin	ng event. Therefore, site

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S.	3	G	G		D		-	2	C	7	-		3	v	-1		4	0	3,	-	0	i u			8		-	-		я	-	-		v	-	1		v	- 7	n	1	5	-	83	a	
	- 1	1.1	C	1.0		A. 2	10	31.*	100	Λ.		10.	 	- T	- 12	- 7	-	100		-	3		1. 1	18		12.		1.1	V7	N. 1	18	e	5.8			1	0.0		•	4 12		- 1	AL.	21.1		

					1	Ne
			SURFACE EMISSI	ONS MONIT	ORING	
			CALIBRATION AN	D PERTINEN	IT DATA	
\cap	Date:	2-16-21		Site Name:	wer	
	Inspector(s):	Pablo 1	2	Instrument:	TVA 2020	
	WEATHER OB	SERVATIONS				
	Wind Speed	:мрн	Wind Direction: <u>55</u> 00		Barometric Pressure: 29.94	1 "Нв
	Ai Temperature		General Weathe Conditions		-)	
	CALIBRATION	INFORMATION		1		
	Pre-monitoring	Calibration Precision Check				
	and calculate th	prate the instrument. Make a le average algebraic differenc pe less than or equal to 10% oj	e between the instrument i			
	Instrument Seria	al Number: 5416	5		Cal Gas Concentration:	500ppm
	Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds)
	1	.0	502		2	4
	3		500		0	2
1			100 C			6
\cup			Average Difference:			
	Calibration Preci	sion= Average Difference/Cal	Gas Conc. X 100%		if average difference is greater than :	
			= 100%-		/500 x 100%	
			=	%		
	Span Sensitivity:					
	Trial 1: Co	unts Observed for the Span=	105532	Trial 3: Coun	ts Observed for the Span=	106049
	Cou	nters Observed for the Zero=	5172	Counte	ers Observed for the Zero=	51 85
	<u>Trial 2:</u> Co	unts Observed for the Span=	105849			
	Cour	nters Observed for the Zeros	46			
	Post Monitoring	Calibration Check				
	Zero Air Reading:	ppm	Cal Gas Reading:	500	ppm	
	BACKGROUND	CONCENTRATIONS CHECKS				
\cup	Upwind Location	Description:		a.	Reading: V2	ppm
	Downwind Locati	on Description:			Reading: <u>5</u>	ppm
		Wind speed averages were ob exceeded 20 miles per hour. I meteorological conditions we	No rainfall had occurred wi	ithin the previous	24 hours of the monitoring	g event. Therefore, site bove mentioned date.

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			8		POST
		SURFACE EMISSIO	ONS MONIT	ORING	
		CALIBRATION ANI	D PERTINEN	IT DATA	
Date:	7-16-21 Pablo R		Site Name:	UCC	
Inspector(s):	Pablo R		Instrument:	TVA 2020	
WEATHER OBS	SERVATIONS			¥.	
Wind Speed:	МРН	Wind Direction: <u>95</u>	÷	Barometric Pressure: 22.9	"Нд
Air Temperature:	GH °F	General Weather Conditions:	Clean		
CALIBRATION					27
Pre-monitoring	Calibration Precision Check				
and calculate th precision must b	prate the instrument. Make a t e average algebraic difference he less than or equal to 10% of	between the instrument i	reading and the	calibration gas as a percente	age. The calibration
Instrument Seria			1	Cal Gas Concentration:	
Trial 1	Zero Air Reading	Cal Gas Reading	Cal Gas C	ConcCal Gas Reading	Response Time (seconds)
2		501		1	4
3		500		0	4
Calibration Preci	sion= Average Difference/Cal (Average Difference: Gas Conc. X 100% = 100%- = QQ. Q		n if average difference is greater than 2	10
Span Sensitivity:					
<u>Trial 1:</u> Co	ounts Observed for the Span=_		1	nts Observed for the Span=	105962
Cou Trial 2:	nters Observed for the Zero=	5170	Count	ters Observed for the Zero=	6 (9)
Co	ounts Observed for the Span= nters Observed for the Zero=	105972 5146			
Post Monitoring	Calibration Check				
Zero Air	3 6 1	Cal Gas			
Reading:	ppm	Reading:	500	_ppm	
BACKGROUND	CONCENTRATIONS CHECKS				
Upwind Location	Description:	Elarz Gritze	e.	Reading:	ppm
Downwind Locat	ion Description:	Grid 36		Reading: 1.6	ppm
	Wind speed averages were ob exceeded 20 miles per hour. I meteorological conditions we	No rainfall had occurred w	ithin the previou	us 24 hours of the monitorin	g event. Therefore, site

0		SURFACE EMISSI		-	
		CALIBRATION AN	DPERIME	NI DATA	
Date:	7-16-2021		Site Name:	Wac	
Inspector(s)	Bryan		Instrument:	TVA 2020	
WEATHER	OBSERVATIONS			*	
Wind Sp	eed: // MPH	Wind Direction:	_	Barometric Pressure: 29.9	- "Hg
Temperat	Air sure: <u>64</u> °F	General Weathe Conditions	er s:_ Clear	_	
CALIBRATI	ON INFORMATION				
Pre-monitor	ing Calibration Precision Check				
and calculat precision mu	Calibrate the instrument. Make a the average algebraic difference ust be less than or equal to 10% of Serial Number:	e between the instrument	reading and the		•
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas	ConcCal Gas Reading	Response Time (s
1	6	500		Ø	4
2		499 500		0	6
Colliberation D		Average Difference:	*Perform recalibration	on if average difference is greater than	10
Calibration P	Precision= Average Difference/Cal	Gas Conc. X 100%	*Perform recalibration	- 1] 10
Calibration P	Precision= Average Difference/Cal	Gas Conc. X 100%	. 3	on if average difference is greater than] 10
Calibration P		Gas Conc. X 100% = 100%	. 3	on if average difference is greater than] 10
5		Gas Conc. X 100% = 100% = 99,9	- <u>3</u> % Trial 3:	on if average difference is greater than	
Span Sensitiv Trial 1:	/ity:	Gas Conc. X 100% = 100% = 99,9	3 % 	on if average difference is greater than /500 x 100% unts Observed for the Span=	138843
Span Sensitiv Frial 1:	vity: Counts Observed for the Span=_	Gas Conc. X 100% = 100% = 99.9 (34103 3578	3 % 	on if average difference is greater than _/500 x 100%	138843
Span Sensitiv Frial 1:	vity: Counts Observed for the Span= Counters Observed for the Zero=	Gas Conc. X 100% = 100% = 99.9 (34103 3578	3 % 	on if average difference is greater than /500 x 100% unts Observed for the Span=	138843
Span Sensitiv Frial 1:	rity: Counts Observed for the Span= Counters Observed for the Zero= Counts Observed for the Span=	Gas Conc. X 100% = 100% = 99.9 13403 3578 1340q5	3 % 	on if average difference is greater than /500 x 100% unts Observed for the Span=	138843
Span Sensitiv Frial 1:	vity: Counts Observed for the Span= <u>Counters Observed for the Zero=</u> Counts Observed for the Span= <u>Counters Observed for the Zero=</u>	Gas Conc. X 100% = 100% = 99.9 13403 3578 1340q5	3 % 	on if average difference is greater than /500 x 100% unts Observed for the Span=	138843
Span Sensitiv Frial 1: Frial 2: Post Monitor Gero Air Geading:	rity: Counts Observed for the Span= <u>Counters Observed for the Zero=</u> Counts Observed for the Span= <u>Counters Observed for the Zero=</u> ing Calibration Check	Gas Conc. X 100% = 100% = 99.9 (3403 3578 (34035 356(Cal Gas Reading:	3 % 		138843
Span Sensitiv Frial 1: Frial 2: Post Monitor Gero Air Gero Air Geading: BACKGROUI	rity: Counts Observed for the Span= <u>Counters Observed for the Zero=</u> Counts Observed for the Span= <u>Counters Observed for the Zero=</u> ing Calibration Check <u>D</u> _ppm	Gas Conc. X 100% = 100% = 99.9 (3403 3578 (34095 356(Cal Gas Reading: FUTE	3 % 		138843
Span Sensitiv Frial 1: Frial 2: Post Monitor Post Monitor	Aity: Counts Observed for the Span= Counters Observed for the Zero= Counts Observed for the Span= Counters Observed for the Zero= ing Calibration Check Dppm ND CONCENTRATIONS CHECKS	Gas Conc. X 100% = 100% = 99.9 (3403 3578 (34095 356 (Cal Gas Reading:	3 % 	ppm Reading:	138843 3548

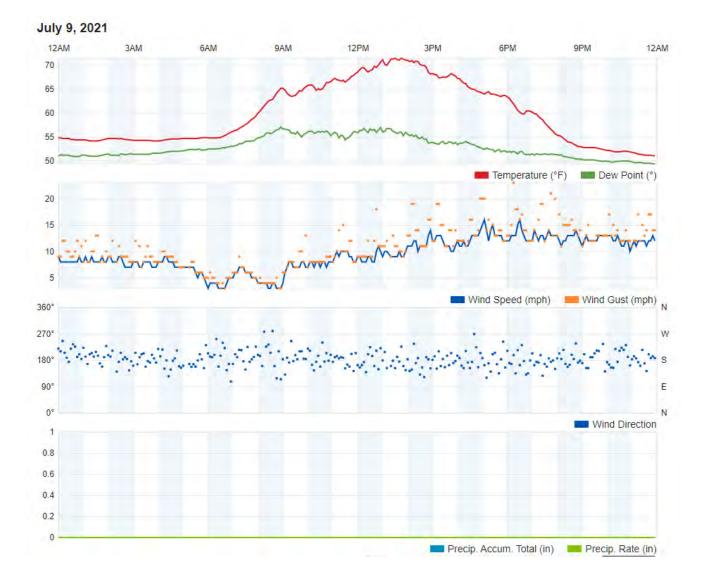
SURFACE EMISSIONS MONITORING CALIBRATION AND PERTINENT DATA Date:: LOBAL:: Instrument:: INCL Instrument:: INCL Instrument:: INCL MPH Direction:: Instrument:: INCL CALIBRATION INFORMATION Pre-monitoring Calibration Precision Check: Pre-monitoring Calibration Precision Check: Pre-monitoring Calibration Precision Check: Pre-monitoring Calibration Precision Check: Pre-monitoring Calibration Precision Check: Procedure: Calibration or equal to 10% of the calibration gas value. Calibration must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: Calibration Queen to 10% of the calibration gas value. Instrument Serial Number: Cali Gas Reading Cali Gas Conce-Cali Gas Reading Response III Calibration Precision= Average Difference/Cal Gas Conc. X 100% Intel 1 Counts Observed for the Span= Counts Observed for the Span= Counters Observed for the Span= Coun	
Date: 1-10-21 Site Name: WCL Inspector(s): Groups and the construction of the con	
WEATHER OBSERVATIONS Wind Barometric Pressure: 3 "Hg Air General Weather Conditions: General Weather Conditions: General Weather CALIBRATION INFORMATION Pre-monitoring Calibration Precision Check Pre-monitoring Calibration Precision Check Pre-monitoring Calibration Precision Check Procedure: Calibration Precision Check Cal Gas Concentration:	
WEATHER OBSERVATIONS Wind Barometric Pressure: 3 "Hg Air General Weather Conditions: General Weather Conditions: General Weather CALIBRATION INFORMATION Pre-monitoring Calibration Precision Check Pre-monitoring Calibration Precision Check Pre-monitoring Calibration Precision Check Procedure: Calibration Precision Check Cal Gas Concentration:	
Wind Barometric Pressure: 3.0 "Hg Air Fremperature: 6.4 "Fermperature: 6.4 "Fermperature: 6.4 "Fermperature: 6.4 "Fermonitoring Calibration Precision Check Pre-monitoring Calibration Precision Check Pre-monitoring Calibration Precision Check Pre-monitoring Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record to and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibrate precision must be less than or equal to 10% of the calibration gas value. Cal Gas Concentration: 500 Instrument Serial Number: 216 Cal Gas ConcCal Gas Reading Response Tr 1 0 10% 2 2 2 20 2 1 0 10% 2 2 2 2 Average Difference/Cal Gas Conc. X 100% = 10%	
Wind Speed: 9 MPH Direction: 9 <td></td>	
Temperature: <u>64</u> *F Conditions: <u>CAUBRATION</u> Pre-monitoring Calibration Precision Check Procedure: Calibrate the instrument. Moke a total of three measurements by alternating zero air and the calibration gas. Record to an ecalibration must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: <u>2165</u> Cal Gas Concentration: <u>500</u> Trial <u>Zero Air Reading</u> Cal Gas Reading [Cal Gas ConcCal Gas Reading] Response Tir <u>2</u> <u>502</u> <u>7</u> <u>503</u> <u>3</u> <u>502</u> <u>7</u> <u>503</u> Average Difference: <u>10% - (10% of the calibration gas value</u> <u>10% - (20% gas ConcCal Gas Reading]</u> Response Tir <u>2</u> <u>502</u> <u>7</u> <u>503</u> <u>7</u> <u>503</u> <u>3</u> <u>502</u> <u>7</u> <u>503</u> <u>7</u> <u>503</u> <u>2</u> <u>502</u> <u>7</u> <u>503</u> <u>7</u> <u>503</u> <u>2</u> <u>502</u> <u>7</u> <u>503</u> <u>503</u> <u>503</u> <u>503</u>	
Pre-monitoring Calibration Precision Check Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record t and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibr precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number:	
Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas as a percentage. The calibration must be less than or equal to 10% of the calibration gas value. Instrument Serial Number:	
and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibr precision must be less than or equal to 10% of the calibration gas value. Instrument Serial Number: <u>Cal Gas Reading</u> <u>Cal Gas ConcCal Gas Reading</u> <u>Response Trial</u> <u>1</u> <u>0</u> <u>1</u> <u>1</u> <u>0</u> <u>1</u> <u>10</u> <u>10</u>	
Trial Zero Air Reading Cal Gas Reading [Cal Gas ConcCal Gas Reading] Response Time Cal Gas Reading 1 0 0 0 0 0 0 0 2 1 0 0 0 0 0 0 3 1 0 0 0 0 0 0 0 3 1 0 0 0 0 0 0 0 0 3 1 0	-
1 0 UQS 1 2 562 7 3 3 562 7 3 Average Difference: *Perform recalibration if average difference is greater than 10 Calibration Precision= Average Difference/Cal Gas Conc. X 100% = 100%/500 x 100% = 100%/500 x 100% = % Span Sensitivity: Trial 1: Counts Observed for the Span= 1/2/4 000% Counts Observed for the Span= 1/2/4 00% Counters Observed for the Span= 1/2/4 00% Trial 1: Counters Observed for the Zero= 3/4 3/2 Counters Observed for the Zero= 3/5 9 Counters Observed for the Zero= 3/5 9 Trial 2: Counters Observed for the Zero= 3/5 5 6 Post Monitoring Calibration Check Post Monitoring Calibration Check	pm
2 3	ie (seconds)
Average Difference: *Perform recalibration if average difference is greater than 10 Calibration Precision= Average Difference/Cal Gas Conc. X 100% = 100%/500 x 100% = % Span Sensitivity: <u>Trial 1:</u> Counts Observed for the Span= <u>34008</u> <u>Counters Observed for the Zeroe</u> <u>3432</u> <u>Trial 2:</u> Counts Observed for the Span= <u>3556</u> Post Monitoring Calibration Check	
*Perform recalibration if average difference is greater than 10 Calibration Precision= Average Difference/Cal Gas Conc. X 100% = 100%/500 × 100% = % Span Sensitivity: Trial 1: Counts Observed for the Span= 34004 Counters Observed for the Zero= 3432 Trial 2: Counts Observed for the Zero= 35556 Counters Observed for the Zero= 35556 Post Monitoring Calibration Check	
= % Span Sensitivity: <u>Trial 1:</u> Counts Observed for the Span= <u>34008</u> <u>Counters Observed for the Zero= 3432</u> <u>Trial 2:</u> Counts Observed for the Span= <u>34126</u> <u>Counters Observed for the Span= <u>3556</u> Post Monitoring Calibration Check</u>	
Span Sensitivity: Trial 1: Counts Observed for the Span= Counters Observed for the Zero= Symptotic Counters Observed for the Zero= Trial 2: Counters Observed for the Span= Counters Observed for the Span= Symptotic Counters Observed for the Zero= Symptotic Counters Observed for the Zero= Counters Observed for the Zero= Symptotic Counters Observed for the Zero= Symptotic Counters Observed for the Zero= Counters Observed for the Zero= Symptotic Counters Observed for the Zero= Symptotic Counters Observed for the Zero= Counters Observed for the Zero= Symptotic Counters Observed for the Zero= Counters Observed for the Zero= Symptotic Counters Observed for the Zero= Counters Observed for the Zero= Symptotic Counters Observed for the Zero= Symptotic Counters Observed for the Zero=	
Trial 1: Trial 3: Counts Observed for the Span= 34003 Counters Observed for the Zero= 3432 Trial 2: Counts Observed for the Span= Counters Observed for the Span= 34126 Counters Observed for the Zero= 35566 Post Monitoring Calibration Check Counters Observed for Check	
Counts Observed for the Span= <u>34004</u> Counters Observed for the Zero= <u>3437</u> Trial 2: Counts Observed for the Span= <u>134126</u> Counters Observed for the Span= <u>134126</u> Counters Observed for the Zero= <u>35566</u> Post Monitoring Calibration Check	
Trial 2: Counts Observed for the Span= V34 126 Counters Observed for the Zero= 3556 Post Monitoring Calibration Check	07
Counts Observed for the Span= <u>V34126</u> Counters Observed for the Zero= <u>35556</u> Post Monitoring Calibration Check	2
Post Monitoring Calibration Check	
Zero Air Cal Gas	
Reading:ppm Reading:ppm	
BACKGROUND CONCENTRATIONS CHECKS	
Upwind Location Description: Reading: ppm	
Downwind Location Description: Reading: 1,6 ppm	
Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantar exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. There meteorological conditions were within the requested alternatives of the LMR requirements on the above mentione	ore, site

		SURFACE EMISSI CALIBRATION AN			
Date:	8-13-2		Site Name:	WCC	
Inspector(s):	Liam McC		Instrument:		
		(0)	instrument:	TVA 2020	
WEATHER OBS	ERVATIONS				
Wind Speed:	мрн	Wind Direction: $\mathcal{S}W$	-	Barometric Pressure: 29.9	"нд
Air Temperature:	58 °F	General Weather Conditions		_	
CALIBRATION I	NFORMATION				
Pre-monitoring (Calibration Precision Check				
and calculate the	e average algebraic differer	a total of three measuremer nce between the instrument i of the calibration gas value.			
Instrument Seria	I Number: 12	23		Cal Gas Concentration:	500ppm
Trial 1	Zero Air Reading	Cal Gas Reading	Cal Gas	ConcCal Gas Reading	Response Time (seconds)
2	6	500		1	
3	0	500		0	
Calibration Precis	ion= Average Difference/Ca		<u>.3</u>	_/500 x 100%	
Span Sensitivity:					
	unts Observed for the Spans ters Observed for the Zeros	Dau		unts Observed for the Span= ters Observed for the Zero=	2017
<u>Trial 2:</u> Cou	ints Observed for the Span	124172		8	
Coun	ters Observed for the Zero-	2923			
Post Monitoring C	Calibration Check				
Zero Air Reading:	ppm	Cal Gas Reading:	500	_ppm	
BACKGROUND C	ONCENTRATIONS CHECK	S			
Upwind Location I	Description:	entrance		Reading: 1-2	ppm
Downwind Locatio	on Description:	und 26		Reading:	ppm
e	xceeded 20 miles per hour.	bbserved to remain below th No rainfall had occurred wi rere within the requested alt	thin the previo	us 24 hours of the monitorin	
DataServ	ices - Secure	Environmental	Date		

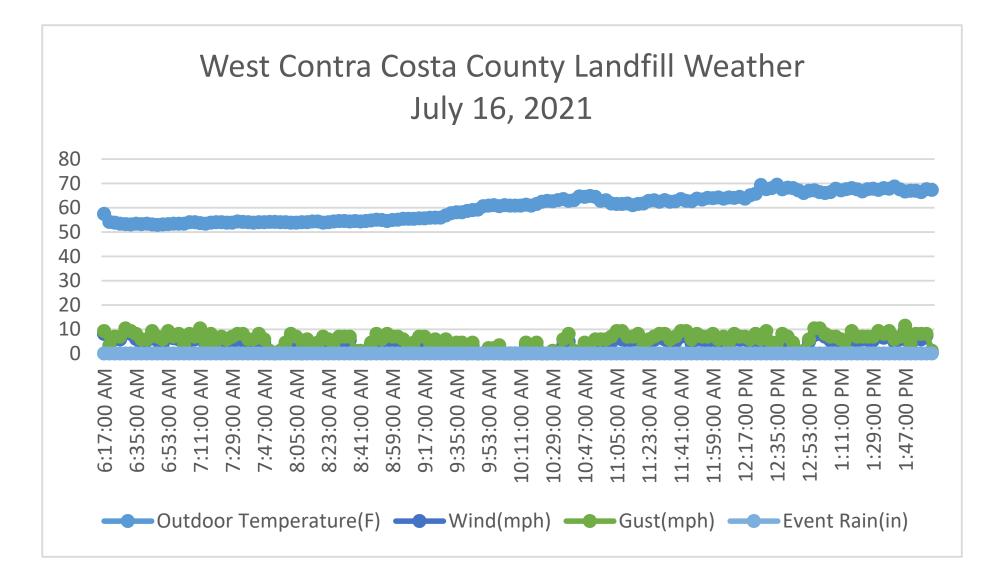
	A LOCATION OF THE OWNER WAS AND THE	A LAT I COL & LOW AND A LAND	and the second s	and the second se	The splitter of the second	A Read and the second
and the second second			the second second second second	Environn	a second second second second	The second se
		A DECIMANT AND A DECIMANT	Strategic Protocol Protocol I	The second s	A REAL PROPERTY AND A REAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
and the second s	/ * A 9 E 2 * 2* C - I @	A TA	우 옷 그는 왜 비해 가지 않 그지?		A R	01.01.

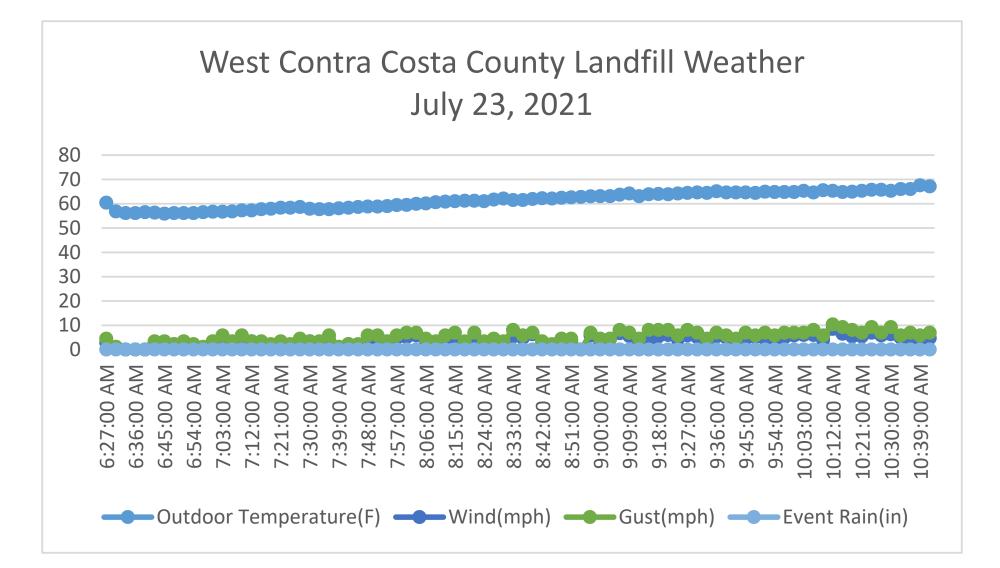
SURFACE EMISSIONS MONITORING CALIBRATION AND PERTINENT DATA					
Date:	8-13-	21	Site Name:	WCC	
Inspector(s):	-Lian Mcl	JUAN	Instrument:	TVA 2020	
WEATHER OBSERVATIONS					
Wind Speed: Air Temperature:	57 69	Wind Direction: Sweether General Weather	clear	Barometric Pressure: 29,	<u>╹</u> "Нg
		Conditions	Crear	-3 - 5	
	Calibration Precision Check				
and calculate th	e average algebraic differen e less than or equal to 10% d	ce between the instrument of the calibration gas value.	reading and the		
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas (ConcCal Gas Reading	Response Time (seconds)
1	0	50			3
2	9	500		0	3
Calibration Precision= Average Difference/Cal Gas Conc. X 100% = 100% - $.7$ /500 x 100% = 99.8 %					
Span Sensitivity:					
f <mark>rial 1:</mark> Co	unts Observed for the Span= nters Observed for the Zero=	- 000		nts Observed for the Spar	29.1
rial 2:		72.0	coun		
	unts Observed for the Span= nters Observed for the Zero=	0.000			21
	Calibration Check				
ero Air eading: –	ppm	Cal Gas Reading:	500	_ppm	
BACKGROUND CONCENTRATIONS CHECKS					
pwind Location	Description:	Contrance		Reading: 1,2	ppm
ownwind Locatio	on Description:	Gridzb		Reading:	ppm
Notes: Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.					

Weather Data



Third Quarter 2021 LMR Weather For July 9, 2021 West Contra Costa County Sanitary Landfill, Contra Costa County, California









Third Quarter 2021 LMR Weather For August 13, 2021 West Contra Costa County Sanitary Landfill, Contra Costa County, California Appendix E – Title V Semi-Annual Report

TITLE V SEMI-ANNUAL MONITORING REPORT

SITE:			FACILITY ID#:		
WEST CONTRA COSTA	1.000 C2 S S S M	A1840			
REPORTING PERIOD:	from	through			
	05/01/2021		10/31/2021		

CERTIFICATION:

I declare, under penalty of perjury under the laws of the state of California, that, based on information and belief formed after reasonable inquiry, all information provided in this reporting package is true, accurate, and addresses all deviations during the reporting period:

Signature of Responsible Official

11-24-21

Date

Rob Sherman Name of Responsible Official (please print)

General Manager Title of Responsible Official (please print)

Mail to:

Director of Compliance and Enforcement BAAQMD 375 Beale Street, Suite 600 San Francisco, CA 94105 Attn: Title V reports

TITLE V SEMI-ANNUAL MONITORING REPORT

SITE:			FACILITY ID#:	
WEST CONTRA COSTA	SANITARY LAND	FILL		A1840
REPORTING PERIOD:	from	through		
	05/01/2021	_	10/31/2021	

List of Permitted Sources and Abatement Device in Title V Permit

Permit Unit Number	Equipment Description
S-#	Description
S-5	Internal Combustion Lean Burn Engine, fired exclusively on landfill gas
S-6	Internal Combustion Lean Burn Engine, fired exclusively on landfill gas
	West Contra Costa Sanitary Landfill (Closed Class I and Class II
S-15	Waste Disposal Areas), Waste Decomposition Process Equipped with
	Landfill Gas Collection System, and Landfill gas collection system
S-37	Internal Combustion Lean Burn Engine, fired exclusively on landfill gas
S-50	Solid Waste Transfer Station
S-69	Inlet Storage Tank #1
S-70	Inlet Storage Tank #2
S-71	Primary Oil Water Separator
S-72	Secondary Separator/Emulsion Breaker
S-74	Inclined Plate Clarifier
S-111	Concrete Crusher
S-112	Crushed Concrete Screener
S-113	Concrete/Asphalt Storage Piles
S-114	Conveyors (Crushed Concrete)
S-115	Wood/Yard Waste Shredder (Tub Grinder)
S-116	Wood Waste Screener
S-117	Composting Operation
S-118	Crushing of Asphalt Debris
S-120	Air Stripper
S-123	Air Stripper Holding (Feed) Tank
S-130	Standby Air Stripper
S-140	Clarifier Holding (Feed) Tank
S-141	Inlet Feed Holding Tank
S-142	Waste Oil Tank
S-145	E-22R Area Tank
S-146	Pretreatment Inlet Feed Tank
S-151	Waste Oil Tank
S-155	Oil Sludge Thickener
S-156	Three Day Tanks
S-157	Filter Press Surge Tank
A-8	Backup Landfill Gas Flare, burning landfill gas, 49.5 MM BTU/hour

Permit Unit Number	Equipment Description				
A-14	Carbon Adsorber (three vessels in series with A-14 first, followed by A-				
A-14	15, followed by A-16)				
A-15	Carbon Adsorber (three vessels in series with A-14 first, followed by A-				
	15, followed by A-16)				
A-16	Carbon Adsorber (three vessels in series with A-14 first, followed by a-				
A-16	15, followed by A-16)				
A 120*	Landfill Gas Flare, burning landfill gas,				
A-120*	91.26 MM BTU/hour				
A 47	Carbon Adsorber (three vessels in series with A-17 first, followed by A-				
A-17	18, followed by A-19)				
A 40	Carbon Adsorber (three vessels in series with A-17 first, followed by A-				
A-18	18, followed by A-19)				
A 10	Carbon Adsorber (three vessels in series with A-17 first, followed by A-				
A-19	18, followed by A-19)				
A-20	Carbon Adsorber (two vessels in series)				
A-21	Carbon Adsorber (two vessels in series)				
A-50	Water Mist System				
A-111	Water Spray System				
A-112	Water Spray System				
A-113	Water Spray System				
A-114	Water Spray System				
A-115	Water Spray System				
A-116	Water Spray System				
A-117	Water Spray Truck				
A-118	Water Spray System				

* The A-120 Flare was removed from WCCSL and replaced with the A-161 Flare in November 2017. The A-161 Flare was initially started in December 2017.

Notes:

- Authority to Construct (ATC) Application Number (AN) 20621
 - Includes conditions for leachate treatment facility and inlet storage tanks. A-20 and A-21 carbon adsorbers, S-71, S-72, S-141, and S-156 wastewater separators, S-120 and S-130 air strippers, A-14, A-15, A-16, A-17, A-18, and A-19 activated carbon vessels, S-69 and S-70 inlet storage tanks, S-141 inlet feed holding tank, and S-156 three day tanks. These changes have not yet been incorporated into the Title V Permit.
- ATC A/N 25019
 - Includes conditions for S-117 covered aerated static pile (CASP) composting operations, A-119 biofilter, S-185 portable trommel screen and grinder operation, A-115 water spray system, S-186 portable diesel engine for trommel screen, S-189 wood waste stockpiles, and A-115 water spray system. S-115 was replaced by S-185. Additional conditions issued for S-189 wood waste stockpiles. These changes have not yet been incorporated into the Title V Permit.
- PTO Condition 27409

 Includes conditions for S-190 trommel screen, S-191 diesel engine powering trommel screen, and S-192 tub grinder. These changes have not yet been incorporated into the Title V Permit.

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-5 INTERNAL COMBUSTION LEAN BURN ENGINE;	Reporting Period: from 05/01/2021 through 10/31/2021
AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Opacity	None	N/A	None	BAAQMD 6-1-301	Ringelmann No. 1 for < 3 minutes/hr	Continuous	N/A
Opacity	None	N/A	None	SIP 6-301	Ringelmann No. 1 for < 3 minutes/hr	Continuous	N/A
FP	None	N/A	None	BAAQMD 6-1-310	0.15 grains/dscf	Continuous	N/A
FP	None	N/A	None	SIP 6-310	0.15 grains/dscf	Continuous	N/A
TOC (Total Organic Com- pounds Plus Methane)	BAAQMD 8-34- 501.6 and 8-34-503	Quarterly Inspection and Records	Periodic / Quarterly	BAAQMD 8-34- 301.2	1000 ppmv as methane (component leak limit)	Continuous	N/A
Non- Methane Organic Com- pounds (NMOC)	BAAQMD 8-34- 412 and 8-34-501.4 and BAAQMD Condition # 5771, Part 7	Initial and Annual Source Tests and Records	Periodic / Annually	BAAQMD 8-34- 301.4 and BAAQMD Condition # 5771, Part 6	98% removal by weight OR < 120 ppmv, dry basis @ 3% O2, expressed as methane	Continuous	N/A
NMOC	40 CFR 60.8 and 60.752(b) (2)(iii)(B) and 60.758(b)(2)	Initial Source Test and Records	Periodic	40 CFR 60.752(b) (2)(iii)(B)	98% removal by weight OR < 20 ppmv dry @ 3% O2, expressed as hexane	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-5 INTERNAL COMBUSTION LEAN BURN ENGINE;	Reporting Period: from 05/01/2021 through 10/31/2021
AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
SO ₂	None	N/A	None	BAAQMD 9-1-301	Property Line Ground Level Limits ≤ 0.5 ppm for 3 minutes, ≤ 0.25 ppm for 60 minutes, and ≤ 0.05 ppm for 24 hours	Continuous	N/A
SO ₂	BAAQMD Condition #25293, Part 10 and BAAQMD Condition # 5771, Part 7	Quarterly Sulfur Analysis of Landfill Gas and Annual Source Test	Periodic / Quarterly and Periodic / Annually	BAAQMD 9-1-302	<u>≤</u> 300 ppm (dry)	Continuous	N/A
H₂S	None	N/A	None	BAAQMD 9-2-301	Property Line ground level limits ≤ 0.06 ppm Averaged over 3 minutes and ≤ 0.03 ppm averaged over 60 minutes	Continuous	N/A
NO _x	BAAQMD Condition # 5771, Part 7	Annual Source Test	Periodic / Annually	BAAQMD 9-8- 302.1	Waste Fuel Gas, Lean-Burn <u><</u> 70 ppmv, dry basis @ 15% O2	Continuous	N/A
NO _x	BAAQMD Condition # 5771, Part 7	Annual Source Test	Periodic / Annually	SIP 9-8-302.1	Waste Fuel Gas, Lean-Burn <u><</u> 140 ppmv, dry basis @ 15% O2	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-5 INTERNAL COMBUSTION LEAN BURN ENGINE;	Reporting Period: from 05/01/2021 through 10/31/2021
AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
NO _x	BAAQMD Condition # 5771, Part 7	Annual Source Test	Periodic / Annually	BAAQMD Condition # 5771, Part 4	≤ 63 ppmv, dry basis @ 15% O2	Continuous	N/A
СО	BAAQMD Condition # 5771, Part 7	Annual Source Test	Periodic / Annually	BAAQMD 9-8- 302.3	Waste Fuel Gas: ≤ 2000 ppmv, dry basis @ 15% O2	Continuous	N/A
СО	BAAQMD Condition # 5771, Part 7	Annual Source Test	Periodic / Annually	BAAQMD Condition # 5771, Part 5	≤ 376 ppmv, dry basis @ 15% O2	Continuous	N/A
Heat Input	BAAQMD Condition # 5771, Parts 3 and 9	Gas Flow Meter and Recorder and Records	Continuous	BAAQMD Condition # 5771, Part 8	285.6 MM BTU per day (each engine) and 104,250 MM BTU per year (each engine)	Continuous	N/A
Gas Flow	BAAQMD 8-34- 501.10 and 508	Gas Flow Meter and Recorder (every 15 minutes)	Continuous	BAAQMD 8-34- 301 and 301.1	Vent all collected gases to a properly operating control system and operate control system continuously.	Continuous	N/A
Gas Flow	BAAQMD Condition # 5771, Part 3	Gas Flow Meter and Recorder	Continuous	BAAQMD Condition # 5771, Part 2	Upon shut down of an engine (S-5 or S-6), automatically divert excess collected gas to either flare A-120 or backup A-8 Flare	Continuous	N/A

Site: West Contra Costa Sanitary Landfill			Facility ID#:	A2	2254
Permitted	Unit:	S-5 INTERNAL COMBUSTION LEAN BURN ENGINE;	Reporting Period	od: fror	m 05/01/2021 through 10/31/2021
AND S-6 INTER	NAL COMB	USTION LEAN BURN ENGINE			

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Gas Flow	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve & Lock and Records	Continuous and Periodic / Monthly	40 CFR 60.753(a) and (e)	Vent all collected gases to a properly operating control system and operate control system at all times when gas is vented to it	Continuous	N/A
Emission Control System Shutdown TIme	BAAQMD 8-34 501.2 and BAAQMD Condition # 5771, Part 9	Records	Periodic / Daily	BAAQMD 8-34- 113.2	240 hours/year	Continuous	N/A
Emission Control System Startup Shutdown or Malfunction	40 CFR 60.7(b), 60.757(f)(2) and (f)(3), and 60.758(e)	Records of occurrence and duration	Periodic / Daily	40 CFR 60.755(e)	≤ 1 hour per event	Continuous	N/A
Startup Shutdown or Malfunction Procedures	40 CFR 63.1980(a-b)	Records (all occurrences, duration of each, corrective actions)	Periodic / on event basis	40 CFR 63.6(e)	Minimize Emissions by Implementing SSM Plan	Continuous	N/A

Site:	ontra Costa Sanitary Landfill	Facility ID#:	A2	A2254		
Permitted	Unit:	S-5 INTERNAL COMBUSTION LEAN BURN ENGINE;	Reporting Period	od: fror	m 05/01/2021 through 10/31/2021	
AND S-6 INTER	NAL COMB	USTION LEAN BURN ENGINE				

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Engine Cylinder or Exhaust Temperature	BAAQMD 8-34- 507 and 8-34- 509	Temperature sensor and continuous recorder	Continuous	BAAQMD Condition #5771 Part 10	To be established during first source test conducted after permit issuance	Continuous	N/A
Periods of Inoperation for Parametric Monitors	BAAQMD 1- 523.4	Records of occurrence and duration	Periodic / Daily	BAAQMD 1-523.2	15 consecutive days/incident and 30 calendar days/12 month period	Continuous	N/A
Continuous Monitors	40 CFR 60.7(b)	Records of occurrence and duration	Periodic / Daily	40 CFR 60.13€	Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Collection System Installation Dates	BAAQMD 8-34- 501.7 and 501.8 and BAAQMD Condition # 25293, Parts 14b-c	Records	Periodic / on event basis	BAAQMD 8-34- 304.1	For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	Continuous	N/A
Collection System Installation Dates	BAAQMD 8-34- 501.7 and 501.8 and BAAQMD Condition #25293, Parts 14b-c	Records	Periodic / on event basis	BAAQMD 8-34- 304.2	For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	Continuous	N/A
Collection System Installation Dates	BAAQMD 8-34- 501.7 and 501.8 and BAAQMD Condition #25293, Parts 14b-c	Records	Periodic / on event basis	BAAQMD 8-34- 304.3	For Any Uncontrolled Areas or Cells: collection system components must be installed and operating within 60 days after the uncontrolled area or cell accumulates 1,000,000 tons of decomposable waste	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Collection System Installation Dates	40 CFR 60.758(a), (d)(1) and (d)(2), and 60.759(a)(3)	Records	Periodic / on event basis	40 CFR 60.753 (a)(2) and 60.755 (b)(2)	For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	Continuous	N/A
Collection System Installation Dates	40 CFR 60.758(a), (d)(1) and (d)(2)	Records	Periodic / on event basis	40 CFR 60.753 (a)(1) and 60.755 (b)(1)	For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	Continuous	N/A
Gas Flow	BAAQMD 8-34- 501.5, 501.10 and 508	Gas Flow Meter and Recorder (every 15 minutes) and records	Continuous	BAAQMD 8-34- 301 and 301.1 and 404	Landfill gas collection system shall operate continuously, except as described in condition #25293 part 7 and all collected gases shall be vented to a properly operating control system	Intermittent	There were six landfill gas collection and control system (GCCS) downtime events that did not meet the exemption criteria specified in Rule 8-34- 113. These events included utility outages, which resulted in shutdowns of the GCCS that occurred on May 5, 2021 from 10:30 to 10:46, May 25, 2021 from 18:56 to 21:04, June 2, 2021 0:42 to

Site: West Contra Costa Sanitary Landfill	Facility ID#:	A2254		
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period:	from	05/01/2021 through 10/31/2021	
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)				

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
		Describer				Quali	7:30, June 24, 2021 19:24 to 19:52, October 7, 2021 20:18 to 20:28, and from October 24, 2021 at 9:08 to October 25, 2021 at 8:58. These events were reported to the BAAQMD as reportable compliance activities (RCA) and breakdown relief was requested.
Gas Flow	BAAQMD Condition # 5771, Part 9; BAAQMD Condition #17812, Part 9; and BAAQMD Condition #25293, Parts 14b-d	Records of Landfill Gas Flow Rates, Collection and Control Systems Downtime, and Collection System Components	Periodic / Daily	BAAQMD Condition #25293, Parts 5, 6, and 7	Landfill gas collection system shall operate continuously, except as described in condition #25293 part 7 and all collected gases shall be vented to a properly operating control system	Continuous	N/A
Gas Flow	BAAQMD Condition #5771, Part 9; BAAQMD Condition #17812, Part	Records of Landfill Gas Flow Rates, Collection and Control Systems	Periodic / Daily	BAAQMD Condition #25293, Parts 5, 6, and 7	Landfill gas collection system shall operate less than continuously and all collected gases shall be vented to a	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
	9; and BAAQMD Condition #25293, Parts 14b-d	Downtime, and Collection System Components			properly operating control system		
Gas Flow	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve and Lock and Records	Continuous or Periodic / Monthly	40 CFR 60.753(a) and (e)	Operate a Collection System in each area or cell and vent all collected gases to a properly operating control system	Continuous	N/A
Collection and Control Systems Shutdown Time	BAAQMD 8-34- 501.1	Operating Records	Periodic / Daily	BAAQMD 8-34- 113.2	240 hours/year or 5 consecutive days	Continuous	N/A
Collection and Control	40 CFR 60.7(b),	Operating Records (all	Periodic / Daily	40 CFR 60.755(e)	5 days per event for collection system and	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
System Startup Shutdown or Malfunction	60.757(f)(2), (f)(3) and (f)(4)	occurrences and duration of each)			1 hour per event for control system		
Startup Shutdown or Malfunction Procedures	40 CFR 63.1980(a-b)	Records (all occurrences, duration of each, and corrective actions)	Periodic / on event basis	40 CFR 63.6(e)	Minimize Emissions by Implementing SSM Plan	Continuous	N/A
Periods of Inoperation for Parametric Monitors	BAAQMD 1- 523.4	Operating Records for All Parametric Monitors	Periodic / Daily	BAAQMD 1-523.2	15 consecutive days/incident and 30 calendar days/12 month period	Continuous	N/A
Continuous Monitors	40 CFR 60.7(b)	Operating Records for All Continuous Monitors	Periodic / Daily	40 CFR 60.13(e)	Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Wellhead Pressure	BAAQMD 8-34- 414, 501.9 and 505.1	Monthly Inspection and Records	Periodic / Monthly	BAAQMD 8-34- 305.1	< 0 psig	Continuous	N/A
Wellhead Pressure	40 CFR 60.755(a)(3), 60.756(a)(1), and 60.758(c) and (e)	Monthly Inspection and Records	Periodic / Monthly	40 CFR 60.753(b)	< 0 psig	Continuous	N/A
Temperature of Gas at Wellhead	BAAQMD 8-34- 414, 501.9 and 505.2	Monthly Inspection and Records	Periodic / Monthly	BAAQMD 8-34- 305.2	< 55 °C	Continuous	N/A
Temperature of Gas at Wellhead	40 CFR 60.755(a)(5), 60.756(a)(3), and 60.758(c) and (e)	Monthly Inspection and Records	Periodic / Monthly	40 CFR 60.753(c)	< 55 °C	Continuous	N/A
Gas Concentrations at Wellhead	BAAQMD 8-34- 414, 501.9 and 505.3 or 505.4 and BAAQMD Condition	Monthly Inspection and Records	Periodic / Monthly	BAAQMD 8-34- 305.3 or 305.4 and BAAQMD Condition #25293 Part 7d	Applies to Gas Collection System Components Other than Leachate Wells N2 < 20% OR O2 < 5% Applies to Leachate	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
	#25293 Part 7d				Wells When Connected to the LFG Collection System O2 < 15% by volume		
Gas Concentrations at Wellhead	40 CFR 60.755(a)(5), 60.756(a)(2), and 60.758(c) and (e)	Monthly Inspection and Records	Periodic / Monthly	40 CFR 60.753(c)	N2 < 20% OR O2 < 5%	Continuous	N/A
Well Shutdown Limits	BAAQMD 8-34- 117.6 and 501.1	Records	Periodic / Daily	BAAQMD 8-34- 117.4	No more than 5 wells at a time or 10% of total collection system, whichever is less	Continuous	N/A
Well Shutdown Limits	BAAQMD 8-34- 117.6 and 501.1	Records	Periodic / Daily	BAAQMD 8-34- 117.5	24 hours per well	Continuous	N/A
TOC (Total Organic Com- pounds Plus Methane)	BAAQMD 8-34- 501.6 and 503	Quarterly Inspection of collection and control system components with OVA and Records	Periodic / Quarterly	BAAQMD 8-34- 301.2	1000 ppmv as methane (component leak limit)	Intermittent	NOV Number A59550 was issued to WCCSL on August 24, 2021 due to an alleged detection of a component leak exceeding the limit of 1,000 parts per million by volume (ppmv) at one location (WCLF0839) during a BAAQMD inspection on August 17, 2021.

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
							Corrective actions were immediately initiated by SCS Field Services (SCSFS), upon identifying the component leak, with the inspector present, which included tightening the loose well fitting. The area of the component leak was re- tested by SCSFS and the BAAQMD inspectors shortly after and the well was determined to be in compliance. The 10-day Response Letter was submitted on September 3, 2021.
TOC	BAAQMD 8-34- 415, 416, 501.6, 506 and 510	Monthly Visual Inspection of Cover, Quarterly Inspection with OVA of Surface, Various Reinspection Times for Leaking Areas,	Periodic / Monthly, Quarterly, and on event basis	BAAQMD 8-34- 303	500 ppmv as methane at 2 inches above surface	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
		and Records					
TOC	40 CFR 60.755(c)(1), (4) and (5), 60.756(f), and 60.758(c) and (e)	Monthly Visual Inspection of Cover, Quarterly Inspection with Portable Analyzer of Surface, Various Reinspection Times for Leaking Areas, and Records	Periodic / Monthly, Quarterly, and on event basis	40 CFR 60.753(d)	<500 ppmv as methane at 5-10 cm from surface	Continuous	N/A
Non- Methane Organic Compounds	BAAQMD 8-34- 412 and 8-34-501.4 and	Initial and Annual Source Tests and	Periodic / Annually	BAAQMD 8-34- 301.3	98% removal by weight OR < 30 ppmv, dry basis	Continuous	N/A

Site: West Contra Costa Sanitary Landfill				#:	A2254	4
Permitted		S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting	Period:	from	05/01/2021 through 10/31/2021
FLARE AND A-	120 LANDF	ILL GAS FLARE (NOTE A-161 REPLACED A-120)				

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
(NMOC)	BAAQMD Condition #25293, Parts 4, 11	Records			 @ 3% O2, expressed as methane (applies to A-120 and A-8 Flares only) 		
NMOC	40 CFR 60.8 and 60.752(b) (2)(iii)(B) and 60.758 (b)(2)(ii)	Initial Source Test and Records	Periodic / on event basis	40 CFR 60.752(b) (2)(iii)(B)	98% removal by weight OR < 20 ppmv dry @ 3% O2, expressed as hexane (applies to A-120 and A-8 Flares only)	Continuous	N/A
Temperature of Combustion Zone (CT)	BAAQMD 8-34- 501.3 and 507, and BAAQMD Condition #25293, Part 14e	Temperature Sensor and Recorder (continuous)	Continuous	BAAQMD Condition #25293, Part 9	$CT \ge 1400 ^{\circ}F,$ $CT > 1417 ^{\circ}F$ averaged over any 3- hour period (applies to A-8 and A-120 Flares only)	Continuous	N/A
СТ	40 CFR 60.756(b)(1) and 60.758 (b)(2)(i)	Temperature Sensor and Recorder (measured every 15 minutes and averaged	Continuous	40 CFR 60.758 (c)(1)(i)	$CT \ge 1467 \ ^\circ F$ (3-hour average) from ($CT \ge CTPF - 28 \ ^\circ C$), where $CTPF$ is the average combustion temperature during the most recent	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
		over 3 hours)			complying performance test (applies to A-120 Flare only)		
Opacity	BAAQMD Condition #25293, Part 14e	Records of all site watering cleaning events and road	Periodic / on event basis, Monthly	BAAQMD 6-1-301	Ringelmann No. 1 for < 3 minutes/hr (applies to S-15 Landfill operations)	Continuous	N/A
Opacity	BAAQMD Condition #25293, Part 14e	Records of all site watering and road cleaning events	Periodic / on event basis, Monthly	SIP 6-301	Ringelmann No. 1 for < 3 minutes/hr (applies to S-15 Landfill operations)	Continuous	N/A
Opacity	None	N/A	None	BAAQMD 6-1-301	Ringelmann No. 1 for < 3 minutes/hr (applies to A-8 and A- 120 Flares)	Continuous	N/A
Opacity	None	N/A	None	SIP 6-301	Ringelmann No. 1 for < 3 minutes/hr (applies to A-8 and A- 120 Flares)	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
FP	None	N/A	None	BAAQMD 6-1-310	\leq 0.15 grains/dscf (applies to A-8 and A- 120 Flares only)	Continuous	N/A
FP	None	N/A	None	SIP 6-310	\leq 0.15 grains/dscf (applies to A-8 and A- 120 Flares only)	Continuous	N/A
SO ₂	None	N/A	None	BAAQMD 9-1-301	Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	Continuous	N/A
SO ₂	BAAQMD Condition #25293, Part 10	Source Test	Periodic / Annually	BAAQMD 9-1-302	≤ 300 ppm (dry basis) (applies to A-8 and A- 120 Flares only)	Continuous	N/A
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 25293, Part 10	Sulfur analysis of landfill gas	Periodic / Quarterly	BAAQMD Condition #25293, Part 10	≤ 300 ppmv	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period: from 05/01/2021 through 10/31/2021
FLARE AND A-120 LANDFILL GAS FLARE (NOTE A-161 REPLACED A-120)	

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
H ₂ S	None	N/A	None	BAAQMD 9-2-301	Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes	Continuous	N/A
Heat Input	BAAQMD Condition # 25293, Part 8	Records	Periodic / Daily	BAAQMD Condition # 25293 Part 8	≤ 2137 MM BTU per day and ≤ 780,134 MM BTU per year	Continuous	N/A
Toxic Air Contaminants	BAAQMD Condition # 25293, Part 12	Annual Landfill Gas Analysis	Periodic / Annually	BAAQMD Condition # 25293 Part 13	Benzene 8.9 ppmv Chlorobenzene 1.5 ppmv Trichloroethylene 0.873 ppmv Ethylbenzene 41 ppmv Vinyl Chloride 6.4 ppmv Xylene 78 ppmv Toluene 110 ppmv Perchloroethylene 0.4 ppmv Acrylonitrile 10 ppmv Methylene Chloride 350 ppmv	Continuous	N/A

Site:	West Co	ontra Costa Sanitary Landfill	Facility ID#:	A225	4
Permitted	Unit:	S-15 LANDFILL AND A-8 BACKUP LANDFILL GAS	Reporting Period:	from	05/01/2021 through 10/31/2021
FLARE AND A-	120 LANDF	ILL GAS FLARE (NOTE A-161 REPLACED A-120)			

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
NOx	BAAQMD Condition # 25293 Part 16	Annual Source Test and Records	Periodic / Annually	BAAQMD Condition # 25293 Part 16	From A-120 only < 0.05 lbs/MMBTU	Continuous	N/A
СО	BAAQMD Condition # 25293 Part 17	Annual Source Test and Records	Periodic / Annually	BAAQMD Condition # 25293 Part 17	From A-120 only < 0.20 lbs/MM BTU	Continuous	N/A

Site: West Contra Costa Sanitary Landfill				Facility ID#:	A225	54
Permitted	Unit:	S-37 INTERNAL COMBUSTIC	ON LEAN BURN ENGINE	Reporting Peric	d: from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Opacity	None	N/A	None	BAAQMD 6-1-301	Ringelmann No. 1 for < 3 minutes/hr	Continuous	N/A
Opacity	None	N/A	None	SIP 6-301	Ringelmann No. 1 for < 3 minutes/hr	Continuous	N/A
FP	None	N/A	None	BAAQMD 6-1-310	0.15 grains/dscf	Continuous	N/A
FP	None	N/A	None	SIP 6-310	0.15 grains/dscf	Continuous	N/A
TOC (Total Organic Com- pounds Plus Methane)	BAAQMD 8-34- 501.6 and 8-34-503	Quarterly Inspection and Records	Periodic / Quarterly	BAAQMD 8-34- 301.2	1000 ppmv as methane (component leak limit)	Continuous	N/A
Non- Methane Organic Com- pounds (NMOC)	BAAQMD 8-34- 412 and 8-34-501.4 and BAAQMD Condition # 17812, Part 8	Initial and Annual Source Tests and Records	Periodic / Annually	BAAQMD 8-34- 301.4	98% removal by weight OR < 120 ppmv, dry basis @ 3% O2, expressed as methane	Continuous	N/A
NMOC	40 CFR 60.8 and 60.752(b) (2)(iii)(B) and 60.758(b)(2)	Initial Source Test and Records	Periodic / Initial	40 CFR 60.752(b) (2)(iii)(B)	98% removal by weight OR < 20 ppmv dry @ 3% O2, expressed as hexane	Continuous	N/A

Site: West Contra Costa Sanitary Landfill			Facility II	D#:	A225	4	
Permitted I	Unit:	S-37 INTERNAL COMBUS	TION LEAN BURN ENGINE	Reporting	g Period:	from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
SO ₂	None	N/A	None	BAAQMD 9-1-301	Property Line Ground Level Limits ≤ 0.5 ppm for 3 minutes, ≤ 0.25 ppm for 60 minutes, and ≤ 0.05 ppm for 24 hours	Continuous	N/A
SO ₂	BAAQMD Condition #25293, Part 10 and BAAQMD Condition # 17812, Part 8	Quarterly Sulfur Analysis of Landfill Gas and Annual Source Test	Periodic / Quarterly and Periodic / Annually	BAAQMD 9-1-302	<u>≤</u> 300 ppm (dry)	Continuous	N/A
H ₂ S	None	N/A	None	BAAQMD 9-2-301	Property Line ground level limits ≤ 0.06 ppm Averaged over 3 minutes and ≤ 0.03 ppm Averaged over 60 minutes	Continuous	N/A
NOx	BAAQMD Condition # 17812, Part 8	Annual Source Test	Periodic / Annually	BAAQMD 9-8- 302.1	Waste Fuel Gas, Lean-Burn <u><</u> 70 ppmv, dry basis @ 15% O2	Continuous	N/A

Site: West Contra Costa Sanitary Landfill			Facilit	ty ID#:	A225	4
Permitted	Unit:	S-37 INTERNAL COMBUSTION LEAN BUR	N ENGINE Repor	ting Period:	from	05/01/2021 through 10/31/2021

Type of LimitMonitoring Requirement CitationMonitoring TypeMonitoring FrequencyCitation		Citation of Limit	Limit	Compliance	Corrective Actions Taken		
NOx	BAAQMD Condition #17812, Part 8	Annual Source Test	Periodic / Annually	SIP 9-8-302.1	Waste Fuel Gas, Lean-Burn <u>≤</u> 140 ppmv, dry basis @ 15% O2	Continuous	N/A
NOx	BAAQMD Condition #17812, Part 8	Annual Source Test	Periodic / Annually	BAAQMD Condition #17812, Part 5	 ≤ 63 ppmv, dry basis @ 15% O2 	Continuous	N/A
CO	BAAQMD Condition #17812, Part 8	Annual Source Test	Periodic / Annually	BAAQMD 9-8- 302.3	Waste Fuel Gas: <u><</u> 2000 ppmv, dry basis @ 15% O2	Continuous	N/A
CO	BAAQMD Condition #17812, Part 8	Annual Source Test	Periodic / Annually	BAAQMD Condition #17812, Part 6	<u><</u> 309 ppm∨, dry basis @ 15% O2	Continuous	N/A
Heat Input	BAAQMD Condition #17812, Parts 7 and 9c-d	Gas Flow Meter and Recorder and Records	Continuous	BAAQMD Condition #17812, Part 2	251.9 MM BTU per day and 91,951 MM BTU per consecutive 12-month period	Continuous	N/A
Gas Flow	BAAQMD 8-34- 501.10 and 508	Gas Flow Meter and Recorder (every 15 minutes)	Continuous	BAAQMD 8-34- 301 and 301.1	Vent all collected gases to a properly operating control system and operate control system continuously.	Continuous	N/A

Site: West Contra Costa Sanitary Landfill			Facility ID#:	A22	54
Permitted U	Unit:	S-37 INTERNAL COMBUSTION LEAN BURN ENGINE	Reporting P	eriod: from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Gas Flow	BAAQMD Condition # 17812, Part 7	Gas Flow Meter and Recorder	Continuous	BAAQMD Condition #17812, Parts 3 & 4	Operate S-37 continuously; Upon shutdown of S-37 or if any amount of gas exceeds the capacity of S- 37, return gas to A-8 Flare automatically	Continuous	N/A
Gas Flow	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve & Lock and Records	Continuous and Periodic / Monthly	40 CFR 60.753(a) and (e)	Vent all collected gases to a properly operating control system and operate control system at all times when gas is vented to it	Continuous	N/A
Emission Control System Shutdown Time	BAAQMD 8-34- 501.2 and BAAQMD Condition #17812, Part 9a	Records	Periodic / Daily	BAAQMD 8-34- 113.2	240 hours/year	Continuous	N/A
Emission Control System Startup Shutdown or Malfunction	40 CFR 60.7(b), 60.757(f)(2) and (f)(3), and 60.758(e)	Records of occurrence and duration	Periodic / Daily	40 CFR 60.755(e)	≤ 1 hour per event	Continuous	N/A

Site:	West C	Contra Costa Sanitary L	andfill	Facility ID#:	A225	54
Permitted	Unit:	S-37 INTERNAL COMBUSTIC	ON LEAN BURN ENGINE	Reporting Peric	d: from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Startup Shutdown or Malfunction Procedures	40 CFR 63.1980(a-b)	Records (all occurrences, duration of each, corrective actions)	Periodic / on event basis	40 CFR 63.6(e)	Minimize Emissions by Implementing SSM Plan	Continuous	N/A
Engine Cylinder or Exhaust Temperature	BAAQMD 8-34- 507 and 8-34- 509	Temperature sensor and continuous recorder	Continuous	BAAQMD Condition #17812, Part 10	To be established during first source test conducted after permit issuance	Continuous	N/A
Periods of Inoperation for Parametric Monitors	BAAQMD 1- 523.4	Records of occurrence and duration	Periodic / Daily	BAAQMD 1-523.2	15 consecutive days/incident and 30 calendar days/12 month period	Continuous	N/A
Continuous Monitors	40 CFR 60.7(b)	Records of occurrence and duration	Periodic / Daily	40 CFR 60.13(e)	Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-120 AIR STRIPPER; S-130 STANDBY AIR STRIPPER; ABATED BY: A-14 CARBON ADSORBER; A-15 CARBON ADSORBER, AND A-16 CARBON ADSORBER; OR A-17 CARBON ADSORBER; A-18 CARBON ADSORBER AND A-19 CARBON ADSORBER	Reporting Period: from 05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Total Organic Compounds (TOC)	BAAQMD 8-47- 501.1, 8-47- 501.2, and 8- 47-601 and BAAQMD Condition #23316, Parts 7 and 8	Monthly, Weekly, or Daily FID Measurements at Carbon Adsorbers, Daily Records of Wastewater Throughput and Monthly Records of Water Analyses	Periodic / Daily, Weekly, and Monthly	BAAQMD 8-47- 301 and 8-47-302	control device shall reduce total organic compound emissions to the atmosphere by at least: 90% by weight	Continuous	N/A

Site:	West Contra Costa Sanitary Landfill	Facility ID#:	A225	54
AND A-16 CAR	Unit: S-120 Air Stripper; S-130 Standby Air Ated by: A-14 Carbon Adsorber; A-15 Carbon Adsorber, Bon Adsorber; or A-17 Carbon Adsorber; A-18 Carbon d A-19 Carbon Adsorber	Reporting Period:	from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
NMOC	BAAQMD Condition #23316, Part 8	Monthly, Weekly, or Daily FID Measure- ments at Carbon Adsorbers (inlet and outlet) and Records	Periodic / Daily, Weekly, and Monthly	BAAQMD Condition #23316, Part 4	carbon replacement upon detection of an outlet NMOC concentration (from A-14, A-15 or A-17, A-18) that is 10% or more of the inlet NMOC concentration and is 10 ppmv or greater (measured as methane)	Continuous	N/A
NMOC	BAAQMD Condition #23316, Part 8	Monthly, Weekly, or Daily FID Measure- ments at Carbon Adsorbers (outlet) and Records	Periodic / Daily, Weekly, and Monthly	BAAQMD Condition #23316, Part 5	carbon replacement upon detection of an outlet NMOC concentration (from A-16 or A-19) of 6 ppmv (measured as methane)	Continuous	N/A
POC	None	N/A	None	BAAQMD Condition #23316, Part 3	Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	Continuous	N/A

Site:	West Contra Costa Sanitary Landfill	Facility ID#:	A225	54
AND A-16 CA	Unit: S-120 AIR STRIPPER; S-130 STANDBY AIR BATED BY: A-14 CARBON ADSORBER; A-15 CARBON ADSORBER, RBON ADSORBER; OR A-17 CARBON ADSORBER; A-18 CARBON ND A-19 CARBON ADSORBER	Reporting Period:	from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Wastewater Throughput Limits	BAAQMD Condition #23316 Part 7	Records	Periodic / Daily	BAAQMD Condition #23316 Part 1	40,800 Gallons/Day 14,892,000 Gallons/Year	Continuous	N/A

Site: Wes	Facility ID#:	A225	54	
Permitted Unit: WATER MIST SYSTEM	S-50 Solid Waste Transfer Station; and A-50	Reporting Period:	from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Opacity	BAAQMD Condition #18258, Part 3	Continuous Observation of Source in Operation	Continuous	BAAQMD 6-1-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Opacity	BAAQMD Condition #18258, Part 3	Continuous Observation of Source in Operation	Continuous	SIP 6-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Amount of Waste Accepted	BAAQMD Condition #18258, Part 7	Records	Periodic / on event basis	BAAQMD Condition #22792, Part 1	2000 tons/day or 730,000 tons in any consecutive twelve month period	Continuous	N/A
Amount of Vehicle Traffic	BAAQMD Condition #18258, Part 7	Records	Periodic / on event basis	BAAQMD Condition #22792, Part 5 and 6	601 vehicle trips per day to both S-15 and S-50 while waste is accepted at S-15; 715 vehicle trips per day to S-50 after waste is no longer accepted at S-15	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-69 INLET STORAGE TANK #1; S-70 INLET STORAGE TANK #2; S-141 INLET FEED TANK; S-156 THREE DAY TANKS; EACH ABATED BY A-20 CARBON ADSORBER AND A-21 CARBON ADSORBER	Reporting Period: from 05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Organic Compounds	BAAQMD 8- 5-501 and BAAQMD Condition #23220, Parts 7 and 8	Monthly, Weekly, or Daily FID Measurements at Carbon Adsorbers and Daily Records of Wastewater Throughput	Periodic / Daily, Weekly, and Monthly	BAAQMD 8-5-301 and 306	Abatement efficiency of at least 95% by weight	Continuous	N/A
Organic Compounds	BAAQMD 8- 5-501 and BAAQMD Condition #23220, Parts 7 and 8	Monthly, Weekly, or Daily FID Measurements at Carbon Adsorbers and Daily Records of Wastewater Throughput	Periodic / Daily, Weekly, and Monthly	SIP 8-5-301 and 306	Abatement efficiency of at least 95% by weight	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#: A2254
Permitted Unit: S-69 INLET STORAGE TANK #1; S-70 INLET STORAGE TANK #2; S-141 INLET FEED TANK; S-156 THREE DAY TANKS; EACH ABATED BY A-20 CARBON ADSORBER AND A-21 CARBON ADSORBER	Reporting Period: from 05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
NMOC	BAAQMD Condition #23220, Part 8	Monthly, Weekly, or Daily FID Measurements at Carbon Adsorbers (inlet and outlet) and Records	Periodic / Daily, Weekly, and Monthly	BAAQMD Condition #23220, Part 5	carbon replacement upon detection of an outlet NMOC concentration (from A-20) that is 10% or more of the inlet NMOC concentration and is 10 ppmv or greater (measured as methane)	Continuous	N/A
NMOC	BAAQMD Condition #23220, Part 8	Monthly, Weekly, or Daily FID Measurements at Carbon Adsorbers (outlet) and Records	Periodic / Daily, Weekly, and Monthly	BAAQMD Condition #23220, Part 6	carbon replacement upon detection of an outlet NMOC concentration (from A-21) of 6 ppmv (measured as methane)	Continuous	N/A
POC	None	N/A	None	BAAQMD Condition #23220, Part 4	Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	Continuous	N/A

Site:	West C	Contra Costa Sanitary Landfill	Facility ID#:	A225	64
	к #2; S-1	S-69 INLET STORAGE TANK #1; S-70 INLET 41 INLET FEED TANK; S-156 THREE DAY TANKS; EACH IN ADSORBER AND A-21 CARBON ADSORBER		from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Wastewater Throughput Limits	BAAQMD Condition #23220, Part 7	Records	Periodic / Daily	BAAQMD Condition #23220, Part 1	40,800 Gallons/Day 14,892,000 Gallons/Year	Continuous	N/A

Site:	West C	ontra Costa Sanitary Landfill	Facility ID#:	A225	54
	SEPARATOR	S-71 PRIMARY OIL WATER SEPARATOR; S-72 R/EMULSION BREAKER; AND S-157 FILTER PRESS Y: A-20 CARBON ADSORBER; AND A-21 CARBON	Reporting Period:	from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Organic Compounds	BAAQMD Condition #23220, Part 8	Monthly, Weekly, or Daily FID Measurements at Carbon Adsorbers	Periodic / Daily, Weekly, and Monthly	BAAQMD 8-8- 301.3	combined collection and removal efficiency of at least 95% by weight	Continuous	N/A
Organic Compounds	BAAQMD Condition #23220, Part 8	Monthly, Weekly, or Daily FID Measurements at Carbon Adsorbers	Periodic / Daily, Weekly, and Monthly	SIP 8-8-301.3	combined collection and removal efficiency of at least 95% by weight	Continuous	N/A
Organic Compounds	None	N/A	None	BAAQMD 8-8-303	all gauging and sampling devices shall have vapor tight covers, seals, or lids	Continuous	N/A
POC	None	N/A	None	BAAQMD Condition #23220 Part 4	Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	Continuous	N/A

Site: West Contra Costa Sanitary Landfill	Facility ID#:	A2254	4
Permitted Unit: S-74 INCLINED PLATE CLARIFIER; S-140 CLARIFIER	Reporting Period:	from	05/01/2021 through 10/31/2021
HOLDING TANKS; S-123 AIR STRIPPER FEED TANK; S-145 E-22R AREA			
TANKS; S-146 PRETREATMENT INLET FEED TANK; S-155 OIL SLUDGE			
THICKENER; S-142 WASTE OIL TANK; S-151 WASTE OIL TANK; ABATED BY: A-			
20 CARBON ADSORBER; AND A-21 CARBON ADSORBER			

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Total Carbon	BAAQMD Condition #23220, Part 7	Records	Periodic / Daily	BAAQMD 8-2-301	15 Pounds/Day or 300 ppm, dry basis	Continuous	N/A
Wastewater Throughput Limits	BAAQMD Condition #23220, Part 7	Records	Periodic / Daily	BAAQMD Condition #23220, Part 1	40,800 Gallons/Day 14,892,000 Gallons/Year	Continuous	N/A
POC	None	N/A	None	BAAQMD Condition #23220, Part 4	Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	Continuous	N/A

Site: Wes	Facility ID#:	A225	4	
Permitted Unit: SPRAY SYSTEM	S-111 CONCRETE CRUSHER; AND A-111 WATER	Reporting Period:	from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Throughput	BAAQMD Condition #23350, Part 6	Records	Periodic / on event basis	BAAQMD Condition #23350, Part 2	30,000 tons of concrete in any consecutive twelve month period	Continuous	N/A
Opacity	BAAQMD Regulation 6- 1-401 and BAAQMD Condition #23350, Part 4	Observation of Source in Operation	Continuous	BAAQMD 6-1-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Opacity	SIP 6-401 and BAAQMD Condition #23350, Part 4	Observation of Source in Operation	Continuous	SIP 6-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
PM	BAAQMD Condition #23350, Part 6	Records	Periodic / on event basis	BAAQMD Condition #23350, Part 5	Application of dust suppressant to all unpaved on-site truck routes to and from the concrete and asphalt recycling operations to maintain a PM control efficiency of 75 % by weight	Continuous	N/A

Site: West C	Contra Costa Sanitary Landfill	Facility ID#:	A225	4
Permitted Unit: WATER SPRAY SYSTEM	S-112 CRUSHED CONCRETE SCREENER; AND A-112	Reporting Period:	from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Throughput	BAAQMD Condition #23351, Part 5	Records	Periodic / on event basis	BAAQMD Condition #23351, Part 2	30,000 tons of concrete in any consecutive twelve month period	Continuous	N/A
Opacity	BAAQMD Regulation 6- 1-401 and BAAQMD Condition #23351, Part 4	Observation of Source in Operation	Continuous	BAAQMD 6-1-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Opacity	SIP 6-401 and BAAQMD Condition #23351, Part 4	Observation of Source in Operation	Continuous	SIP 6-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A

Site: V	Vest C	ontra Costa Sanitary Landfill	Facility ID#:	A225	54
Permitted U		S-113 CONCRETE/ASPHALT STORAGE PILES; AND A-	Reporting Period	from	05/01/2021 through 10/31/2021
113 WATER SPR	RAY SYST	ΓEM			

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Throughput	BAAQMD Condition #23352, Part 4	Records	Periodic / on event basis	BAAQMD Condition #23352, Part 1	30,000 tons of concrete in any consecutive twelve month period	Continuous	N/A
Opacity	BAAQMD Regulation 6- 1-401 and BAAQMD Condition #23352, Part 3	Observation of Source in Operation	Continuous	BAAQMD 6-1-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Opacity	SIP 6-401 and BAAQMD Condition #23352, Part 3	Observation of Source in Operation	Continuous	SIP 6-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A

Site: V	Vest C	Contra Costa Sanitary Landfill	Facility ID#:	A225	54
Permitted Ur			Reporting Perio	: from	05/01/2021 through 10/31/2021
114 WATER SPR	AY SYS	TEM			

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Throughput	BAAQMD Condition #23353, Part 5	Records	Periodic / on event basis	BAAQMD Condition #23353, Part 2	30,000 tons of concrete in any consecutive twelve month period	Continuous	N/A
Opacity	BAAQMD Regulation 6- 1-401 and BAAQMD Condition #23353, Part 4	Observation of Source in Operation	Continuous	BAAQMD 6-1-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Opacity	SIP 6-401 and BAAQMD Condition #23353, Part 4	Observation of Source in Operation	Continuous	SIP 6-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A

Site:				D#:	A2254	4
		S-115 WOOD/YARD WASTE SHREDDER (TUB	Reporting	g Period:	from	05/01/2021 through 10/31/2021
GRINDER); AND	A-115 W	ATER SPRAY SYSTEM				

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Throughput	BAAQMD Condition #23354, Part 7	Records	Periodic / on event basis	BAAQMD Condition #23354, Part 2	19,000 tons of wood waste in any consecutive twelve month period	Continuous	N/A
Opacity	BAAQMD Regulation 6- 1-401 and BAAQMD Condition #23354, Part 4	Observation of Source in Operation	Continuous	BAAQMD 6-1-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Opacity	SIP 6-401 and BAAQMD Condition #23354, Part 4	Observation of Source in Operation	Continuous	SIP 6-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A

Site: West 0	Contra Costa Sanitary Landfill	Facility ID#:	A225	4
Permitted Unit: Water Spray System		Reporting Period:	from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Throughput	BAAQMD Condition #23355, Part 4	Records	Periodic / on event basis	BAAQMD Condition #23355, Part 1	19,000 tons of wood waste in any consecutive twelve month period	Continuous	N/A
Opacity	BAAQMD Regulation 6- 1-401 and BAAQMD Condition #23355, Part 3	Observation of Source in Operation	Continuous	BAAQMD 6-1-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Opacity	SIP 6-401 and BAAQMD Condition #23355, Part 3	Observation of Source in Operation	Continuous	SIP 6-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A

through 10/31/2021
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Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Throughput	BAAQMD Condition #23356, Part 5	Records	Periodic / on event basis	BAAQMD Condition #23356, Part 1	19,000 tons of wood waste in any consecutive twelve month period	Continuous	N/A
Opacity	BAAQMD Regulation 6- 1-401 and BAAQMD Condition #23356, Part 3	Observation of Source in Operation	Continuous	BAAQMD 6-1-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Opacity	SIP 6-401 and BAAQMD Condition #23356, Part 3	Observation of Source in Operation	Continuous	SIP 6-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
PM	BAAQMD Condition #23356, Part 5	Records	Periodic / on event basis	BAAQMD Condition #23356, Part 4	Application of dust suppressant or water to all unpaved on-site truck routes to and from the composting operation to maintain a PM control efficiency of 75 % by weight	Continuous	N/A

Site: Wes	Facility ID#:	A2254		
Permitted Unit: WATER SPRAY SYST	S-118 CRUSHING OF ASPHALT DEBRIS; AND A-118	Reporting Period:	from	05/01/2021 through 10/31/2021

Type of Limit	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Throughput	BAAQMD Condition #23357, Part 4	Records	Periodic / on event basis	BAAQMD Condition #23357, Part 1	5,000 tons of asphalt in any consecutive twelve month period	Continuous	N/A
Opacity	BAAQMD Regulation 6- 1-401 and BAAQMD Condition #23357, Part 3	Observation of Source in Operation	Continuous	BAAQMD 6-1-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A
Opacity	SIP 6-401 and BAAQMD Condition #23357, Part 3	Observation of Source in Operation	Continuous	SIP 6-301	Ringelmann 1.0 for 3 minutes in any hour	Continuous	N/A