



# CENTRAL SAN

CENTRAL CONTRA COSTA SANITARY DISTRICT

5019 IMHOFF PLACE, MARTINEZ, CA 94553-4392

PHONE: (925) 228-9500  
[www.centralsan.org](http://www.centralsan.org)

January 30, 2024

ROGER S. BAILEY  
General Manager

J. LEAH CASTELLA  
Counsel for the District  
(415) 640-8903

ELECTRONIC SUBMITTAL: [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov)

KATIE YOUNG  
Secretary of the District, CMC

Mr. Jeffrey Gove  
Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
Attn: Title V Reports  
375 Beale Street, Suite 600  
San Francisco, CA 94105

SUBJECT: 2023 TITLE V ANNUAL, JULY THROUGH DECEMBER 2023  
SEMI-ANNUAL, AND FOURTH QUARTER 2023 COMBINED REPORT FOR  
BAY AREA AIR QUALITY MANAGEMENT DISTRICT FACILITY NO. A0907

Dear Mr. Gove:

Central Contra Costa Sanitary District's Wastewater Treatment Plant (Facility No. A0907) is regulated by a United States Environmental Protection Agency Title V Major Facility Review Permit and a Bay Area Air Quality Management District Permit-to-Operate. The attached 2023 Title V Annual, July through December 2023 Semi-Annual, and Fourth Quarter 2023 Combined Report meets the requirements for the Title V Major Facility Review Permit and Bay Area Air Quality Management District Regulation 2, Rule 6.

If you have any questions concerning the information in this annual report, please contact Environmental and Regulatory Compliance Division Manager Lori Schectel at (925) 229-7143 or [lschectel@centralsan.org](mailto:lschectel@centralsan.org).

Sincerely,

*Alan Weer*

Alan Weer, P.E.  
Plant Operations Division Manager

TV Tracking #: 865

1.  RECEIVED IN 01/30/2024  
ENFORCEMENT: \_\_\_\_\_

Enclosures

ecc: Jose Orozco – [jorozco@baaqmd.gov](mailto:jorozco@baaqmd.gov)  
Mark Sims – [sims.mark@epa.gov](mailto:sims.mark@epa.gov)



**2023 TITLE V ANNUAL,  
JULY THROUGH DECEMBER 2023 SEMI-ANNUAL,  
AND FOURTH QUARTER 2023 COMBINED REPORT**  
**January 1 through December 31, 2023**

For Submittal to:  
**Bay Area Air Quality Management District**  
375 Beale Street, Suite 600  
San Francisco, California 94105

Prepared by:  
**Central Contra Costa Sanitary District**  
5019 Imhoff Place  
Martinez, California 94553  
Plant Number A0907

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# 1 Introduction

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## 1.1 Purpose

This document is a Title V Annual, Semi-Annual, and Fourth Quarter Combined Report for the Central Contra Costa Sanitary District (Central San). This report covers the Title V compliance activities for the annual period of January 1, 2023 through December 31, 2023, reporting requirements for the semi-annual period of July 1, 2023 through December 31, 2023, as well as the fourth quarter reporting requirements for October 1, 2023 through December 31, 2023.

Central San, Facility No. A0907, was issued its first Major Facility Review Permit on January 7, 2000. A revision to the permit was issued on November 15, 2004, and a five-year renewal permit was issued on December 11, 2006. The second five-year renewal permit was issued on March 12, 2015. Central San submitted a Major Facility Review Application dated September 3, 2019, and paid the invoice on December 4, 2019 for permit renewal. This report is submitted to comply with the requirements of Bay Area Air Quality Management District (BAAQMD), Regulation 2, Rule 6, and Title V of the Clean Air Act.

Section 2 of this report contains Title V compliance activities for Auxiliary Boilers (S-7 and S-8), Furnaces (S-9 and S-10), Cogeneration (S-188), the remaining BAAQMD permitted sources, and additional Title V activities.

Section 3 contains the quarterly reporting requirements of sulfur content of landfill gas (LFG), total organic carbon leak testing for the LFG System, and sulfur dioxide (SO<sub>2</sub>) emissions from both LFG and natural gas (NG) combustion.

## 1.2 Recordkeeping and Reporting

Records are maintained and available for inspection in accordance with BAAQMD Regulation 8-34-501.12. The primary location for records storage is inside the Treatment Plant's Operations Office at Central San. Records are maintained at this location for a minimum of five years.

## 2 Title V Compliance Activities

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The following sections summarize the compliance activities for January 1, 2023 through December 31, 2023.

### 2.1 Auxiliary Boilers No. 1 and No. 2 (S-7 and S-8)

Both auxiliary boilers (S-7 and S-8) operated on NG and LFG during the reporting period. Neither S-7 nor S-8 operated on fuel oil during the reporting period. The flow meters for LFG and NG were fully operational and the hourly data was collected and electronically archived. Neither boiler exceeded the 28 million British thermal unit (MMBTU)/hour permit limit for the reporting period.

Table 1: 2023 Auxiliary Boilers Fuel Oil Usage			
	Hours of Testing	Hours of NG Curtailment	Fuel Consumed (gal)
<b>Auxiliary Boiler No. 1 (S-7)</b>	0	0	0
<b>Auxiliary Boiler No. 2 (S-8)</b>	0	0	0
<i>Limit</i>	48	168	-

When operating on LFG, the three-clock hour first-pass temperatures for both auxiliary boilers were above the minimum 770 degrees Fahrenheit (°F) permit limit 100 percent of the operating time during the reporting period (Appendix C).

The annual source test for S-7 (NST-8659) and S-8 (NST-8660) was conducted on October 11-12, 2023, and the final report was submitted to BAAQMD electronically on November 9, 2023. All emissions and stack temperatures complied with the applicable permit conditions during the source testing.

### 2.2 Furnaces No. 1 and No. 2 (S-9 and S-10)

Furnace No. 2 (S-10) operated until January 27, 2023, and Furnace No. 1 (S-9) started its operation on January 24, 2023. The solid fuel throughput to both S-9 and S-10 did not exceed the daily combined limit of 120 dry tons/day, the daily limit of 60 dry tons/day per furnace, or the annual combined limit of 20,000 dry tons/365 days. The total combined 12-month cumulative solid fuel throughput to S-9 and S-10 during the reporting period was 16,051 dry tons. Neither S-9 nor S-10 exceeded the hourly auxiliary fuel limit of 27 MMBTU/hour per furnace.

Sludge cake solids content is measured during all three work shifts daily. The volatile fraction of the cake solids is measured once daily, and the volatile content varies slightly from day-to-day. The volatile solids content did not exceed 95 percent during the reporting period.

During the reporting period, the wet scrubber pressure drop for S-9 was above the minimum limit of 5.9 inches of water column 99.997 percent of the time, and that of S-10 was above the minimum limit of 4.7 inches of water column 100 percent of the time (Appendix D).

The one-hour Hearth No. 2 oxygen (O<sub>2</sub>) measurements for S-9 and S-10 were below the 10 percent O<sub>2</sub> maximum limit for 100 percent of the time during the reporting period (Appendix E). The total hydrocarbon emissions for both S-9 and S-10 were well below the limit of 100 parts per million (ppm) corrected to 7 percent O<sub>2</sub>.

During the reporting period, the opacity measurements for S-9 were in compliance 100 percent of the time, and the opacity measurements for S-10 were in compliance 100 percent of the time (Appendix F). The routine audits and annual zero alignment of the opacity monitor required under 40 Code of Federal Regulations (CFR) 60 Appendix F, Procedure 3 were completed; all results were in compliance and were submitted with the monthly continuous emission monitoring system (CEMS) compliance reports.

Hearth temperatures lower than the following clock-hour minimums must be reported. During the reporting period, the hearth temperature readings for S-9 were above their minimum limits for 99.81 percent of the time and those of S-10 were above their minimum limits for 99.94 percent of the time (Appendix G).

#### **Hearth Temperature Minimum Limits**

- Hearth No. 1: 1,000 °F
- Hearth No. 2: 800 °F
- Hearth No. 3: 1,000 °F
- Hearth No. 4: 1,000 °F
- Hearth No. 5: 1,000 °F
- Hearth No. 6: 1,000 °F
- Hearth No. 7: 100 °F
- Hearth No. 8: 100 °F
- Hearth No. 9: 80 °F
- Hearth No. 10: 40 °F
- Hearth No. 11: 40 °F

Inoperative monitor incidents that exceed more than 24 hours shall be reported to BAAQMD. There were no inoperative monitor incidents during the reporting period for the following parametric monitors:

#### **Parametric Monitors**

- Sludge flow monitor
- Scrubber pressure drop monitor
- Auxiliary NG and LFG fuel flow monitors
- Internal afterburner (Hearth No. 1) temperature monitor
- Hearth Nos. 2-11 temperature monitors
- Oxygen content

On February 7-9, 2023, Montrose Air Quality Services, LLC conducted annual emissions testing on S-9 on behalf of Central San (NST-8030) for SO<sub>2</sub>, non-methane organic carbon, and pollutants regulated under Clean Air Act Section 129 (129) Sewage Sludge Incinerator (SSI) regulations. Emission results were below their respective limits and were submitted electronically to BAAQMD and the United States Environmental Protection Agency (USEPA) on March 28, 2023.

A qualified SSI Operator was available at all times during S-9 and S-10 operation. All SSI Operators completed an annual review course for 129 SSI Operator qualification in 2023.

The annual air pollution control device inspection for the dry cyclone scrubber (A-3) and wet scrubber (A-4) on S-9 was completed in September 2022 to prepare for S-9 being brought online. The equipment was operating properly and was in generally good operating condition. The annual air pollution control device inspection for the dry cyclone scrubber (A-1) and wet scrubber (A-2) on S-10 was completed in November 2023 to prepare for bringing S-10 back online. The equipment was operating properly and was in generally good operating condition. The following sections summarize the Reportable Compliance Activity (RCA) and permit deviations related to S-9 and/or S-10 that were submitted to BAAQMD during the reporting period:

- **January 27, 2023 Furnace No. 1 Opacity, Inoperative Monitor (RCA 08Q40)**  
The opacity meter on S-9 measuring opacity at P-9 was inoperative starting on January 26, 2023 and resumed normal operation on January 27, 2023. The RCA form and notice of resumption were submitted to BAAQMD on January 27, 2023.
- **April 18, 2023 Furnace No. 1, Wet Scrubber No. 1 Pressure Drop (dP) (RCA 08S16)**  
On April 18, 2023, Wet Scrubber No. 1's dP was below the permitted minimum limit of 5.9" water column (WC) for one 15-minute block during reintroduction of sludge feed after planned maintenance. Central San submitted RCA 08S16 for the dP exceedance on April 18, 2023, a 10-Day Deviation Notification on April 24, 2023, and a 30-Day Title V Report on May 17, 2023.
- **September 13, 2023 Furnace No. 1 Emergency Bypass Damper**  
On September 13, 2023, Furnace No. 1's emergency bypass damper opened from a failure of the variable frequency drive (VFD) connected to the induced draft fan. The VFD's internal cooling blower failed, triggering the VFD to trip on high temperature. Later that day, the emergency bypass damper opened again during troubleshooting of the VFD and its internal cooling blower. A 10-Day Deviation Notification was submitted on September 21, 2023, and a 30-Day Title V Report was submitted on October 3, 2023. BAAQMD issued Notice of Violation A60763 during a site inspection on October 23, 2023 for the bypass events, to which Central San submitted a written response on November 2, 2023.

## 2.3 Centrifuge and Cake Hoppers (S-24, A-14, and A-15)

During the reporting period, centrifuges and cake hoppers (S-24) only operated while abated by packed bed scrubbers A-14 or A-15.

## 2.4 Gasoline Dispensing Facility (S-25)

Throughput for the Gasoline Dispensing Facility is recorded monthly. The gasoline dispensed for the past 12 months was approximately 336 gallons (Appendix H). The maximum consecutive 12-month total during the reporting period was 536 gallons, which is significantly less than the limit of 400,000 gallons in any consecutive 12-month period. On May 18, 2023, TEC Accutite Inc. conducted the annual static pressure test according to the requirements in California Air Resources Board Executive Order, Vapor Recovery (VR)-402, Test Procedure (TP) 206.3. No issues were noted during the annual test.

## 2.5 Wastewater Treatment Plant (S-100)

The wastewater flow into Central San’s Treatment Plant did not exceed 53.8 million gallons per day on a calendar month average during dry weather periods or 140 million gallons per day on a calendar month average during wet weather periods.

## 2.6 Preliminary Treatment (S-110, A-23, and A-24)

The preliminary treatment (S-110) only operated when being abated by odor control unit (OCU) scrubbers A-23 or A-24 at all times that malodorous compounds were present.

Permit-to-Operate Condition No. 7124 requires Central San to ensure that hydrogen sulfide (H<sub>2</sub>S) concentration in the stacks of A-23 and A-24 do not exceed 10.0 ppm by using a BAAQMD-approved device every calendar quarter. Quarterly H<sub>2</sub>S monitoring results are summarized in Table 2.

Table 2: A-23 and A-24 H <sub>2</sub> S Monitoring Results			
Quarter	Monitoring Date	OCU East (A-23) H <sub>2</sub> S, ppm	OCU West (A-24) H <sub>2</sub> S, ppm
1	1/12/2023	0.16	0.00
2	5/4/2023	0.21	0.00
3	7/20/2023	0.56	0.04
4	10/19/2023	1.36	0.07
		<i>H<sub>2</sub>S Limit</i>	<i>10 ppm</i>

## 2.7 Primary Treatment (S-120 and A-120)

Odor control scrubber A-120 abated emissions from primary treatment (S-120) at all times that malodorous compounds were present.

## 2.8 Dissolved Air Flotation Units and Sludge Blending Tanks (S-180, A-14, A-15, and A-187)

Dissolved Air Flotation Units and Sludge Blending Tanks (S-180) only operated while abated by packed bed scrubbers A-14 or A-15 and scrubber A-187 at all times that malodorous compounds were present.

## 2.9 Ash Conveying System (S-182, A-186, A-191, A-192, and A-196)

The ash conveying system (S-182) only operated while abated by baghouses A-186, A-196, or cyclone A-191 and baghouse A-192. All abatement devices were maintained according to manufacturer’s specifications.



The exhaust stacks from the particulate emissions abatement systems A-186, A-196, and A-191/A-192 were visually checked for leaks at a minimum of once per day.

## 2.10 Cogeneration (S-188)

S-188 fired only on Public Utilities Commission quality NG and did not exceed the permit fuel throughput limit of 1,188 MMBTU/day or 49.5 MMBTU/hour during the reporting period. Oxides of Nitrogen (NO<sub>x</sub>) emissions from S-188 did not exceed the following maximum limits:

- Clock-hour average of 167 parts per million by volume, dry (ppmvd) at 15 percent O<sub>2</sub>
- Three-clock hour average of 42 ppmvd at 15 percent O<sub>2</sub>
- 118 pounds of NO<sub>x</sub> per any rolling consecutive 24-hour period
- 19.834 tons of NO<sub>x</sub> per any rolling 365-day consecutive period

All span and zero calibrations for the NO<sub>x</sub> CEMS were within their respective limits when the CEMS was in operation. The routine quarterly audits of the NO<sub>x</sub> CEMS required under 40 CFR 60 Appendix F, Procedure 1 and the semi-annual Nitrogen Dioxide to Nitric Oxide (NO<sub>2</sub>-to-NO) converter efficiency tests were completed. All results from the quarterly audits and semi-annual NO<sub>2</sub>-to-NO converter efficiency tests were in compliance and submitted with the monthly CEMS compliance reports.

Central San submitted RCA 08W41 on November 30, 2023 for an inoperative NO<sub>x</sub> CEMS that was removed from service for routine manufacturer service. The inoperative monitor period officially began on November 30, 2023. A Notice of Resumption was emailed to BAAQMD on December 13, 2023, notifying that the monitor was back in service as of December 12, 2023.

The NG flow monitor and water injection monitor were properly operated. The water-to-fuel ratio was calculated on a clock-hour basis and the heat input was calculated on a daily basis.

On March 6, 2023, a compliance source test was conducted (NST-8128) to demonstrate annual compliance with the carbon monoxide (CO) limits and results were submitted electronically to BAAQMD on March 28, 2023. The measured CO emissions demonstrated compliance with the following CO limits:

- 157 pounds per rolling 24-hour period
- 26.376 tons per rolling 365-day consecutive period

CO emissions must be monitored for 30 continuous minutes and Central San must estimate the corresponding CO mass emissions in pounds per day. If CO emissions are estimated at more than 118 pounds per day, Central San must take corrective action to lower the CO emissions within five business days and re-monitor. After the CO catalyst replacement in March 2021, initial monitoring frequency for CO emissions was required monthly. Per the S-188 permit condition, Central San may reduce the monitoring frequency from monthly to quarterly if CO emissions are estimated at less than 118 pounds/day for 12 consecutive months. Central San returned to quarterly monitoring starting in the second quarter of 2022 since monthly CO emissions remained below 118 pounds/day.

CO emissions from S-188 were less than 118 pounds/day for the entire reporting period. CO monitoring results during the reporting period are summarized in Table 3.

**Table 3: S-188 CO Monitoring Results**

Quarter/ Month	Cogen NG Flow (kcf)*	CO Concentration (ppm)	O <sub>2</sub> Concentration (%)	CO Mass Emissions (lb/day)	Sample Date
Q1	1032	15.39	16.37	48.65	2/17/2023
Q2	860	13.66	17.05	42.30	5/12/2023
Q3	966	19.08	16.47	57.65	8/9/2023
Q4	939	18.77	16.56	56.25	10/4/2023
* Cogeneration (Cogen) Thousand cubic feet per day (kcf)				<i>Monitoring Limit:</i> <i>Permit Limit:</i>	<i>118.00 lb/day</i> <i>157.00 lb/day</i>

### 2.11 Emergency Standby Generators (S-195, S-196, A-1195, and A-1196)

The permit limits the testing and maintenance run-time of S-195 and S-196 to 100 hours each per calendar year. During the reporting period, S-195 was operated for 5 hours for testing and maintenance and S-196 was operated for 5 hours for testing and maintenance.

S-195 and S-196 only operated when the particulate trap/catalyzed diesel particulate filters (A-1195 and A-1196) were in place. A-1195 and A-1196 have not exceeded 2,000 hours of operation without cleaning. The non-resettable totalizing meters on each generator that measure the hours of operation were properly maintained. Maintenance records for S-195 and S-196 are available upon request.

### 2.12 Sludge Loading Facility (S-197)

S-197 is a Sludge Loading Facility designed for operation if S-9 and S-10 are not available. It is an enclosed building with appropriate odor control (A-199) and is allowed 500 run hours annually for maintenance and testing. Operational hours include centrifuge to hopper loading, hopper storage, and hopper to truck loading. During the reporting period, S-197 was operated for 146.9 hours for testing and for 99.9 hours while both S-9 and S-10 were not available. Emissions were in compliance with the respective limits for H<sub>2</sub>S and organic compounds.

### 2.13 Additional Compliance Activities

Central San is considered a major stationary combustion source of greenhouse gas emissions by the California Air Resources Board. Central San’s annual emissions of non-biogenic carbon dioxide equivalents are less than 25,000 metric tons. Therefore, Central San does not incur any compliance obligations under the Cap-and-Trade portion of Assembly Bill (AB) 32 but is required to report and verify carbon dioxide equivalents emissions on an annual basis.

## 2.14 Compliance Certification Forms

As required in the current Title V Major Facility Review Permit, the completed Compliance Certification forms and the completed Major Facility Review Certification Statement will be sent to BAAQMD in a separate submittal. A copy of this submittal will also be sent to the USEPA, Region IX.

## 3 Fourth Quarter 2023 Reporting Requirements

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The following sections satisfy the fourth quarter reporting requirement pursuant to Permit-to-Operate Condition 21422 Parts 2 and 3, Condition 21485 Part 14, BAAQMD Rule 9-1-302, and BAAQMD Rule 8-34-503.

### 3.1 SO<sub>2</sub> Concentration from Landfill Gas Combustion

The maximum LFG H<sub>2</sub>S concentration was 51.0 ppmv during the fourth quarter period. Based on this H<sub>2</sub>S concentration, the estimated maximum exhaust gas SO<sub>2</sub> concentration from either auxiliary boiler (S-7 and S-8) is 10.2 ppmvd SO<sub>2</sub>. This concentration is significantly lower than the permit limit of 300 ppmvd SO<sub>2</sub>.

### 3.2 SO<sub>2</sub> Concentration from Natural Gas Combustion

The maximum SO<sub>2</sub> emissions from the combustion of NG are based on the maximum total sulfur content of 0.25 grains total sulfur per 100 standard cubic feet from Pacific Gas and Electric, published "Rule 21 – Transportation of Natural Gas, Section C, Quality of Gas" for the fourth quarter of 2023.

While burning NG, the maximum SO<sub>2</sub> concentration in the stack gas from the Auxiliary Boilers (S-7 and S-8) and Cogeneration (S-188) during the reporting period was 0.45 ppmvd SO<sub>2</sub>. This concentration is significantly lower than the permit limit of 300 ppmvd SO<sub>2</sub>.

Quarterly SO<sub>2</sub> concentration readings from LFG and NG combustion are presented in Appendix I.

### 3.3 Total Organic Carbon Leaks – Landfill Gas System

The LFG piping from the landfill to Central San's point of delivery is tested for leaks by Acme Landfill Corporation's consultant and was tested on December 14, 2023. There were no leaks in excess of the 1,000 ppmv as methane limit in BAAQMD Regulation 8, Rule 34.

The LFG piping from Central San's point of delivery to the permitted sources is tested by Central San's staff and was tested for leaking components on November 16, 2023. There were no leaks in excess of the 1,000 ppmv as methane limit in BAAQMD Regulation 8, Rule 34.

Quarterly total organic carbon leaks data are presented in Appendix J.

*I certify the following:*

*This completes the Title V reporting requirements for the annual period of January 1, 2023 through December 31, 2023, the semi-annual period of July 1, 2023 through December 31, 2023, and the fourth quarter period of October 1, 2023 through December 31, 2023. To the best of my knowledge, the information contained herein is true and accurate.*

*Alan Weer*

\_\_\_\_\_  
Alan Weer, P.E.  
Plant Operations Division Manager

**1/30/2024**

\_\_\_\_\_  
Date

**APPENDIX A**

**TITLE V SEMI-ANNUAL MONITORING VERIFICATION REPORT**

Appendix A  
Title V Annual Monitoring Verification Report

Date: January 30, 2024

Period: 1/1/2023-12/31/2023

Site #: A0907  
Site Name: Central Contra Costa Sanitary District  
Address: 5019 Imhoff Place  
City: Martinez State: CA Zip Code: 94553

The following tables show the relationship between each limit and the associated compliance monitoring provisions, if any. Federally enforceable (FE) limits are also identified. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable limit based upon the nature of the operation.

S-7 AUXILIARY BOILER #1.....	2
S-8 AUXILIARY BOILER #2.....	8
S-9 MULTIPLE HEARTH FURNACE #1.....	14
S-10 MULTIPLE HEARTH FURNACE #2.....	28
S-24 CENTRIFUGES AND CAKE HOPPERS.....	41
S-25 GASOLINE DISPENSING FACILITY.....	42
S-180 DISSOLVED AIR FLOTATION UNITS AND SLUDGE BLENDING TANKS.....	42
S-182 ASH CONVEYING SYSTEM.....	42
S-188 NATURAL GAS FIRED TURBINE GENERATOR WITH HRSG.....	45
S-195 EMERGENCY STANDBY DIESEL GENERATOR #1.....	48
S-196 EMERGENCY STANDBY DIESEL GENERATOR #3.....	49

**S-7 AUXILIARY BOILER #1**

Source #: S-7					Source Name: Auxiliary Boiler #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Oxides of Nitrogen	SIP 9-7-301.1 (Gaseous Fuels)	Y		30 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition #21422, Part 7	P/once every 60 months	Source Test	X	10/11/23 NST-8659
	SIP 9-7-302.1 (Non-Gaseous Fuels)	Y		40 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition #21422, Part 7	P/once every 60 months	Source Test	X	NA. Non-gaseous fuel is only burned during a natural gas curtailment or testing. The device did not exceed the hour limits required for the exemption
	SIP 9-7-305.1	Y		150 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel due to natural gas curtailment	BAAQMD 9-7-503.2	P/E	Records	X	
	SIP 9-7-306.1	Y		150 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel for testing	BAAQMD 9-7-503.2	P/E	Records	X	



Source #: S-7					Source Name: Auxiliary Boiler #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Oxides of Nitrogen	BAAQMD 9-7-113.2	N		150 ppmvd at 3% O <sub>2</sub> when burning non-gaseous fuel during natural gas curtailment for up to 168 hours in any consecutive 12-month period or 48 hours for testing in any consecutive 12-month period	BAAQMD 9-8-503.3	P/E	Records	X	
Oxides of Nitrogen	BAAQMD 9-7-307.4	N		15 ppmvd @ 3% O <sub>2</sub> for gaseous fuels except landfill or digester gas	BAAQMD Condition #21422, Part 5	P/once every 60 months	Source Test	X 10/11/23 NST-8659	
Oxides of Nitrogen	BAAQMD 9-7-307.4	N		15 ppmvd @ 3% O <sub>2</sub> for gaseous fuels except landfill or digester gas	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/11/23 NST-8659	
Oxides of Nitrogen	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O <sub>2</sub> for landfill or digester gas	BAAQMD Condition #21422, Part 5	P/once every 60 months	Source Test	X 10/11/23 NST-8659	
	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O <sub>2</sub> for landfill or digester gas)	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/11/23 NST-8659	
Carbon Monoxide	SIP 9-7-301.2 (Gaseous Fuels)	Y		400 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition #21422, Part 5	P/once every 60 months	Source Test	X 10/11/23 NST-8659	

Source #: S-7					Source Name: Auxiliary Boiler #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Carbon Monoxide	SIP 9-7-302.2 (Non-Gaseous Fuels)	Y		400 ppmvd @ 3% O <sub>2</sub>		N		X	
	SIP 9-7-305.2	Y		400 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel due to natural gas curtailment	BAAQMD 9-7-503.2	P/E	Records	X	
	SIP 9-7-306.2	Y		400 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel for testing	BAAQMD 9-7-503.3	P/E	Records	X	
	BAAQMD 9-7-307.4, 9-7-307.7, and 9-7-307.8	N		400 ppmvd @ 3% O <sub>2</sub> for gaseous, landfill gas, and digester gas	BAAQMD Condition #21422, Part 5	P/once every 60 months	Source Test	X 10/11/23 NST-8659	
	BAAQMD 9-7-307.4, 9-7-307.7, and 9-7-307.8	N		400 ppmvd @ 3% O <sub>2</sub> for gaseous, landfill gas, and digester gas	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/11/23 NST-8659	
Sulfur Dioxide	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	

Source #: S-7					Source Name: Auxiliary Boiler #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	BAAQMD 9-1-302	Y		300 ppmvd	BAAQMD Condition #21422, Part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X	Appendix I
	BAAQMD 9-1-304	Y		Sulfur content of fuel (<0.5% by wt)	BAAQMD Condition #21422, Part 2	P/M	Fuel Sulfur Analysis	X	Appendix I
	BAAQMD Condition #21422, Part 3	Y		300 ppmvd	BAAQMD Condition #21422, Part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X	Appendix I
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
	SIP 6-301	Y		Ringelmann No. 1		N		X	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	
	SIP 6-310	Y		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	
Organics & CH <sub>4</sub>	BAAQMD, Condition #21422, Part 8	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane @ 3% O <sub>2</sub>	BAAQMD, Condition #21422, Part 6	C	Temperature Monitor	X	Appendix C
	BAAQMD 8-34-301.2	N		Max Leakage: 1000 ppmvd (as CH <sub>4</sub> )	BAAQMD 8-34-503	P/Q	Leak Testing	X	Appendix J

Source #: S-7					Source Name: Auxiliary Boiler #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-507	C	Temperature Monitor	X Appendix C	
	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-508	C	Gas Flow Meter	X	
Organics & CH <sub>4</sub>	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-412	P/A	Source Test	X 10/11/23 NST-8659	
Organics & CH <sub>4</sub>	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH <sub>4</sub> )	BAAQMD 8-34-503	P/Q	Leak Testing	X Appendix J	
Heat Input	BAAQMD Condition #21422, Part 1	Y		Not to exceed 28 MMBtu/hr	BAAQMD Condition #21422, Part 9A	P/M	Records	X	
Boiler Temperature	BAAQMD Condition #21422, Part 8	Y		770 degrees F or greater, when burning landfill gas	BAAQMD Condition #21422, Part 8	C	Records	X Appendix C	

Source #: S-7					Source Name: Auxiliary Boiler #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Stack Gas Temperature	BAAQMD 9-7-312	N		466 degrees F	BAAQMD Condition #21422, Part 8	P/A	During Source Test	X	10/11/23 NST-8659

**S-8 AUXILIARY BOILER #2**

Source #: S-8					Source Name: Auxiliary Boiler #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Oxides of Nitrogen	SIP 9-7-301.1 (Gaseous Fuels)	Y		30 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition #21422, Part 7	P/once every 60 months	Source Test	X	10/12/23 NST-8660
	SIP 9-7-302.1 (Non-Gaseous Fuels)	Y		40 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition #21422, Part 7	P/once every 60 months	Source Test	X	NA. Non-gaseous fuel is only burned during a natural gas curtailment or testing. The device did not exceed the hour limits required for the exemption
	SIP 9-7-305.1	Y		150 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel due to natural gas curtailment	BAAQMD 9-7-503.2	P/E	Records	X	
	SIP 9-7-306.1	Y		150 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel for testing	BAAQMD 9-7-503.2	P/E	Records	X	

Source #: S-8					Source Name: Auxiliary Boiler #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Oxides of Nitrogen	BAAQMD 9-7-113.2	N		150 ppmvd at 3% O <sub>2</sub> when burning non-gaseous fuel during natural gas curtailment for up to 168 hours in any consecutive 12-month period or 48 hours for testing in any consecutive 12-month period	BAAQMD 9-8-503.3	P/E	Records	X	
Oxides of Nitrogen	BAAQMD 9-7-307.4	N		15 ppmvd @ 3% O <sub>2</sub> for gaseous fuels except landfill or digester gas	BAAQMD Condition #21422, Part 5	P/once every 60 months	Source Test	X 10/12/23 NST-8660	
Oxides of Nitrogen	BAAQMD 9-7-307.4	N		15 ppmvd @ 3% O <sub>2</sub> for gaseous fuels except landfill or digester gas	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/12/23 NST-8660	
Oxides of Nitrogen	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O <sub>2</sub> for landfill or digester gas	BAAQMD Condition #21422, Part 5	P/once every 60 months	Source Test	X 10/12/23 NST-8660	
	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O <sub>2</sub> for landfill or digester gas)	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/12/23 NST-8660	
Carbon Monoxide	SIP 9-7-301.2 (Gaseous Fuels)	Y		400 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition #21422, Part 5	P/once every 60 months	Source Test	X 10/12/23 NST-8660	

Source #: S-8					Source Name: Auxiliary Boiler #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Carbon Monoxide	SIP 9-7-302.2 (Non-Gaseous Fuels)	Y		400 ppmvd @ 3% O <sub>2</sub>		N		X	
	SIP 9-7-305.2	Y		400 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel due to natural gas curtailment	BAAQMD 9-7-503.2	P/E	Records	X	
	SIP 9-7-306.2	Y		400 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel for testing	BAAQMD 9-7-503.3	P/E	Records	X	
	BAAQMD 9-7-307.4, 9-7-307.7, and 9-7-307.8	N		400 ppmvd @ 3% O <sub>2</sub> for gaseous, landfill gas, and digester gas	BAAQMD Condition #21422, Part 5	P/once every 60 months	Source Test	X 10/12/23 NST-8660	
	BAAQMD 9-7-307.4, 9-7-307.7, and 9-7-307.8	N		400 ppmvd @ 3% O <sub>2</sub> for gaseous, landfill gas, and digester gas	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/12/23 NST-8660	
Sulfur Dioxide	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	



Source #: S-8					Source Name: Auxiliary Boiler #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	BAAQMD 9-1-302	Y		300 ppmvd	BAAQMD Condition #21422, Part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X	Appendix I
	BAAQMD 9-1-304	Y		Sulfur content of fuel (<0.5% by wt)	BAAQMD Condition #21422, Part 2	P/M	Fuel Sulfur Analysis	X	Appendix I
	BAAQMD Condition #21422, Part 3	Y		300 ppmvd	BAAQMD Condition #21422, Part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X	Appendix I
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
	SIP 6-301	Y		Ringelmann No. 1		N		X	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	
	SIP 6-310	Y		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	
Organics & CH <sub>4</sub>	BAAQMD, Condition #21422, Part 8	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane @ 3% O <sub>2</sub>	BAAQMD, Condition #21422, Part 6	C	Temperature Monitor	X	Appendix C
	BAAQMD 8-34-301.2	N		Max Leakage: 1000 ppmvd (as CH <sub>4</sub> )	BAAQMD 8-34-503	P/Q	Leak Testing	X	Appendix J

Source #: S-8					Source Name: Auxiliary Boiler #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-507	C	Temperature Monitor	X	Appendix C
	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-508	C	Gas Flow Meter	X	
Organics & CH <sub>4</sub>	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-412	P/A	Source Test	X	10/12/23 NST-8660
Organics & CH <sub>4</sub>	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH <sub>4</sub> )	BAAQMD 8-39-503	P/Q	Leak Testing	X	Appendix J
Heat Input	BAAQMD Condition #21422, Part 1	Y		Not to exceed 28 MMBtu/hr	BAAQMD Condition #21422, Part 9A	P/M	Records	X	
Boiler Temperature	BAAQMD Condition #21422, Part 8	Y		770 degrees F or greater, when burning landfill gas	BAAQMD Condition #21422, Part 8	C	Records	X	Appendix C

Source #: S-8					Source Name: Auxiliary Boiler #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Stack Gas Temperature	BAAQMD 9-7-312	N		466 degrees F	BAAQMD Condition #21422, Part 8	P/A	During Source Test	X	10/12/23 NST-8660

**S-9 MULTIPLE HEARTH FURNACE #1**

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Sulfur Dioxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O <sub>2</sub>	40 CFR 62.15955, Table 4	C	Scrubber Liquid pH Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	
	BAAQMD 9-1-304	Y		300 ppmvd	BAAQMD Condition #21423, Part 11	P/A	Source Test	X	2/7/23-2/9/23 NST-8030

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Oxides of Nitrogen	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		220 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
	SIP 6-301	Y		Ringelmann No. 1		N		X	
Opacity	BAAQMD 6-1-302	N		20% opacity for no more than 3 minutes in any hour	BAAQMD 6-1-501	C	Continuous Opacity Monitor	X	Appendix F RCA 08Q40 for inoperative COMS
	SIP 6-302	Y		20% opacity for no more than 3 minutes in any hour	BAAQMD 6-501	C	Continuous Opacity Monitor	X	Appendix F RCA 08Q40 for inoperative COMS

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	40 CFR 60.152(a) (2)	Y		20% opacity	BAAQMD 6-1-501	C	Continuous Opacity Monitor	X	Appendix F RCA 08Q40 for inoperative COMS
	BAAQMD Condition #21423, Part 5	Y		20% opacity or greater	BAAQMD Condition #21423, Part 5	C	Continuous Opacity Monitor	X	Appendix F RCA 08Q40 for inoperative COMS
Filterable Particulate	BAAQMD 6-1-310.1	N		0.15 grains/dscf @ 12% CO <sub>2</sub> and as if no auxiliary fuel is used	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
	SIP 6-310.1	Y		0.15 grains/dscf @ 12% CO <sub>2</sub> and as if no auxiliary fuel is used	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
	BAAQMD 6-1-311.2	N		5.44 kg/hr, per Table 6-1-311.2: Process Weight Rate vs. Allowable TSP Emission Limits (effective July 1, 2020)	BAAQMD Condition #21423, Part 10	P/once every 2 years	Source Test	X	2/7/23-2/9/23 NST-8030

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Filterable Particulate	SIP 6-311	Y		4.10P <sup>0.67</sup> lb/hr, where P is process weight, lb/hr, not to exceed 40 lb/hr	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X 2/7/23- 2/9/23 NST-8030	
Filterable Particulate	40 CFR 60.152(a)(1), BAAQMD Condition #21423, Part 3	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(a)(1) and BAAQMD Condition #21423, Part 13a	C	Sludge Flow Meter	X	
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge (pressure drop shall not drop below individual furnace scrubber pressure set points for > 15 min in any hour)	40 CFR 60.153(b)(1), BAAQMD Condition #21423, Parts 13b and 14a	C	Wet Scrubber Pressure Drop Meter		X Appendix D RCA 08S16
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge (oxygen content shall not exceed 10%)	40 CFR 60.153(b)(2), BAAQMD Condition #21423, Parts 13c and 14b	C	O <sub>2</sub> Analyzer	X Appendix E	
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(3) and BAAQMD Condition #21423, Part 13d	C	Temperature Monitors	X Appendix G	

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Filterable Particulate	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(4) and BAAQMD Condition #21423, Part 13e	C	Fuel Flow Meter	X	
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(5) and BAAQMD Condition #21423, Part 13f	P/D	Sludge Sample and Analysis	X	
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 2/7/23- 2/9/23 NST-8030	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (combustion chamber operating temperature shall not drop below setpoints for > 15 min in any hour)	40 CFR 62, Subpart LLL, Table 4	C	Hearth 1 Temperature Monitor	NA Awaiting response from USEPA Region 9 on site-specific parametric limit	



Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (pressure drop shall not drop below individual furnace scrubber pressure setpoints for > 15 min in any hour)	40 CFR 62.15960, Table 4	C	Wet Scrubber Pressure Drop Meter	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (scrubber liquid flow rate shall not drop below setpoints for > 15 min in any hour)	40 CFR 62.15960, Table 4	C	Wet Scrubber Effluent Liquid Flow Meter	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
	BAAQMD Condition #21423, Part 4	Y		343 mg particulate/dscm (0.15 gr/dscf) of exhaust gas volume	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
Non-Methane Organic Compounds	BAAQMD Condition #21423, Part 12	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD Condition #21423, Part 12	C	Hearth 1 Temperature Monitor	X	Appendix G

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
CH <sub>4</sub>	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH <sub>4</sub> )	BAAQMD 8-34-503	P/Q	Leak Monitoring	X Appendix J	
Non-Methane Organic Compounds	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-507	C	Hearth 1 Temperature Monitor	X Appendix G	
Non-Methane Organic Compounds	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-508	C	Gas Flow Meter	X	
Non-Methane Organic Compounds	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-412	P/A	Source Test	X 2/7/23- 2/9/23 NST-8030	
Hydrogen Chloride	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 2/7/23- 2/9/23 NST-8030	

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O <sub>2</sub>	40 CFR 62.15955, Table 4	C	Scrubber Liquid pH Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
Carbon Monoxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		3,800 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
Dioxins/ Furans	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		5.0 ng/dscm (total mass basis); or 0.32 ng/dscm (toxic equivalency basis) @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
Hydrogen Sulfide	BAAQMD 9-2-301	N		24-Hour Standard: GLC not to exceed 0.06 ppm average over 3 min and 0.03 ppm average over 60 min		N		X	

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Lead	BAAQMD 11-1-301, BAAQMD Condition #21423, Part 9	Y		15 lb/day	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
	BAAQMD 11-1-302	Y		Max GLC (w/o background): 1.0 microgram/cu m (24-hour average)		N		X	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.30 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
Be	BAAQMD 11-3-301, BAAQMD Condition #21423, Part 6	N		10 g/24 hr	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
	40 CFR Part 61.32	Y		10 g/24 hr	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Mercury	BAAQMD 11-5-302, Condition #21423, Part 7	N		3200 g/24 hr	BAAQMD Condition #21423, Parts 7, 8, and 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
	40 CFR Part 61.52 (b)	Y		3.2 kg/24 hr	40 CFR Part 61.53	P/A	Sludge Analysis	X	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.28 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
Cadmium	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.095 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
Solid Fuel Feed Rate	Permit Condition #21423, Part 2	Y		60 dry tons sludge/day; 120 dry tons sludge/day for S-9 and S-10 combined	Permit Condition #21423, Part 13a	P/C	Flow Measuring Device	X	

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	Permit Condition #21423, Part 2	Y		20,000 dry tons sludge/ consecutive 12-month period for S-9 and S-10 combined	Permit Condition #21423, Part 13a	P/C	Flow Measuring Device	X	
Sludge Feed Rate		Y			40 CFR 62, Subpart LLL, Section 15960(f)(1), Table 4	C	Flow Measuring Device	X	
Sludge Moisture		Y			40 CFR 62, Subpart LLL, Section 15960(f)(1), Table 4	P/D	Sludge Analysis	X	
Hearth 1 Minimum Temperature	Permit Condition #21423, Part 12	Y		1,000 degrees F, rolling 3 clock-hour average	Permit Condition #21423, Part 13d	C	Hearth 1 Temperature Monitor	X	Appendix G
Fugitive Emissions from Ash Handling	40 CFR 62, Subpart LLL, Section 15960(d); Table 3	Y		5% of the hourly observation period	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Visible Emission Test	X	2/7/23-2/8/23 Completed during annual 129 compliance demonstration source test

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Hearth 1 Temperature	40 CFR 62, Subpart LLL, Section 15960(a); Table 3	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Hearth 1 Temperature Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
Pressure Drop	40 CFR 62, Subpart LLL, Section 15960(b); Table 3	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Wet Scrubber Pressure Drop Meter	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit

Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Pressure Drop	40 CFR 60.152(a) (1); BAAQMD 6-1-310.1, SIP 6-310.1; BAAQMD 6-1-311, SIP 6-311	Y		Minimum scrubber pressure drop: 5.9" WC	40 CFR 64	C	Wet Scrubber Pressure Drop Meter		X Appendix D RCA 08S16
Scrubber Liquid Flow	40 CFR 62, Subpart LLL, Section 15960(b); Table 3	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Wet Scrubber Effluent Liquid Flow Meter	NA Awaiting response from USEPA Region 9 on site-specific parametric limit	



Source #: S-9					Source Name: Multiple Hearth Furnace #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
pH of Scrubber Liquid	40 CFR 62, Subpart LLL, Section 15960(b); Table 3	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Scrubber Liquid pH Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit

**S-10 MULTIPLE HEARTH FURNACE #2**

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Sulfur Dioxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	1/18/22-1/20/22 NST-7110
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O <sub>2</sub>	40 CFR 62.15955, Table 4	C	Scrubber Liquid pH Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	
	BAAQMD 9-1-304	Y		300 ppmvd	BAAQMD Condition #21423, Part 11	P/A	Source Test	X	1/18/22-1/20/22 NST-7110

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Oxides of Nitrogen	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		220 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	1/18/22-1/20/22 NST-7110
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
	SIP 6-301	Y		Ringelmann No. 1		N		X	
Opacity	BAAQMD 6-1-302	N		20% opacity for no more than 3 minutes in any hour	BAAQMD 6-1-501	C	Continuous Opacity Monitor	X	Appendix F
	SIP 6-302	Y		20% opacity for no more than 3 minutes in any hour	BAAQMD 6-501	C	Continuous Opacity Monitor	X	Appendix F
	40 CFR 60.152(a) (2)	Y		20% opacity	BAAQMD 6-1-501	C	Continuous Opacity Monitor	X	Appendix F
	BAAQMD Condition #21423, Part 5	Y		20% opacity or greater	BAAQMD Condition #21423, Part 5	C	Continuous Opacity Monitor	X	Appendix F
Filterable Particulate	BAAQMD 6-1-310.1	N		0.15 grains/dscf @ 12% CO <sub>2</sub> and as if no auxiliary fuel is used	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	1/18/22-1/20/22 NST-7110

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	SIP 6-310.1	Y		0.15 grains/dscf @ 12% CO <sub>2</sub> and as if no auxiliary fuel is used	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	
	BAAQMD 6-1-311.1	N		8.92 kg/hr, per Table 6-1-311.1: Process Weight Rate vs. Allowable TSP Emission Limits (expired July 1, 2020)	BAAQMD Condition #21423, Part 10	P/once every 2 years	Source Test	X	
	BAAQMD 6-1-311.2	N		5.44 kg/hr, per Table 6-1-311.2: Process Weight Rate vs. Allowable TSP Emission (effective July 1, 2020) Limits	BAAQMD Condition #21423, Part 10	P/once every 2 years	Source Test	X	
Filterable Particulate	SIP 6-311	Y		4.10P <sup>0.67</sup> lb/hr, where P is process weight, lb/hr, not to exceed 40 lb/hr	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	
Filterable Particulate	40 CFR 60.152(a) (1), BAAQMD Condition #21423, Part 3	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(a)(1) and BAAQMD Condition #21423, Part 13a	C	Sludge Flow Meter	X	

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge (pressure drop shall not drop below individual furnace scrubber pressure setpoints for > 15 min in any hour)	40 CFR 60.153(b)(1), BAAQMD Condition #21423, Parts 13b and 14a	C	Wet Scrubber Pressure Drop Meter	X	Appendix D
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge (oxygen content shall not exceed 10%)	40 CFR 60.153(b)(2), BAAQMD Condition #21423, Parts 13c and 14b	C	O <sub>2</sub> Analyzer	X	Appendix E
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(3) and BAAQMD Condition #21423, Part 13d	C	Temperature Monitors	X	Appendix G
Filterable Particulate	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(4) and BAAQMD Condition #21423, Part 13e	C	Fuel Flow Meter	X	
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(5) and BAAQMD Condition #21423, Part 13f	P/D	Sludge Sample and Analysis	X	

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	1/18/22-1/20/22 NST-7110
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (combustion chamber operating temperature shall not drop below setpoints for > 15 min in any hour)	40 CFR 62, Subpart LLL, Table 4	C	Hearth 1 Temperature Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (pressure drop shall not drop below individual furnace scrubber pressure setpoints for > 15 min in any hour)	40 CFR 62.15960, Table 4	C	Wet Scrubber Pressure Drop Meter	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (scrubber liquid flow rate shall not drop below setpoints for > 15 min in any hour)	40 CFR 62.15960, Table 4	C	Wet Scrubber Effluent Liquid Flow Meter	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
	BAAQMD Condition #21423, Part 4	Y		343 mg particulate/dscm (0.15 gr/dscf) of exhaust gas volume	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	1/18/22-1/20/22 NST-7110
Non-Methane Organic Compounds	BAAQMD Condition #21423, Part 12	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD Condition #21423, Part 12	C	Hearth 1 Temperature Monitor	X	Appendix G
CH <sub>4</sub>	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH <sub>4</sub> )	BAAQMD 8-34-503	P/Q	Leak Monitoring	X	Appendix J
Non-Methane Organic Compounds	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-507	C	Hearth 1 Temperature Monitor	X	Appendix G

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Non-Methane Organic Compounds	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-508	C	Gas Flow Meter	X	
Non-Methane Organic Compounds	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-412	P/A	Source Test	X 1/18/22- 1/20/22 NST-7110	
Hydrogen Chloride	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 1/18/22- 1/20/22 NST-7110	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O <sub>2</sub>	40 CFR 62.15955, Table 4	C	Scrubber Liquid pH Monitor	NA Awaiting response from USEPA Region 9 on site-specific parametric limit	



Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Carbon Monoxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		3,800 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	
Dioxins/ Furans	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		5.0 ng/dscm (total mass basis); or 0.32 ng/dscm (toxic equivalency basis) @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	
Hydrogen Sulfide	BAAQMD 9-2-301	N		24-Hour Standard: GLC not to exceed 0.06 ppm average over 3 min and 0.03 ppm average over 60 min		N		X	
Lead	BAAQMD 11-1-301, BAAQMD Condition #21423, Part 9	Y		15 lb/day	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	
	BAAQMD 11-1-302	Y		Max GLC (w/o background): 1.0 microgram/cu m (24-hour average)		N		X	

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.30 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	
Be	BAAQMD 11-3-301, BAAQMD Condition #21423, Part 6	N		10 g/24 hr	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	
	40 CFR Part 61.32	Y		10 g/24 hr	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	
Mercury	BAAQMD 11-5-302, Condition #21423, Part 7	N		3200 g/24 hr	BAAQMD Condition #21423, Parts 7, 8, and 10	P/once every 60 months	Source Test	X	
	40 CFR Part 61.52 (b)	Y		3.2 kg/24 hr	40 CFR Part 61.53	P/A	Sludge Analysis	X	

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.28 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	
Cadmium	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.095 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	
Solid Fuel Feed Rate	Permit Condition #21423, Part 2	Y		60 dry tons sludge/day; 120 dry tons sludge/day for S-9 and S-10 combined	Permit Condition #21423, Part 13a	P/C	Flow Measuring Device	X	
	Permit Condition #21423, Part 2	Y		20,000 dry tons sludge/ consecutive 12-month period for S-9 and S-10 combined	Permit Condition #21423, Part 13a	P/C	Flow Measuring Device	X	
Sludge Feed Rate		Y			40 CFR 62, Subpart LLL, Section 15960(f)(1), Table 4	C	Flow Measuring Device	X	
Sludge Moisture		Y			40 CFR 62, Subpart LLL, Section 15960(f)(1), Table 4	P/D	Sludge Analysis	X	

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Hearth 1 Minimum Temperature	Permit Condition #21423, Part 12	Y		1,000 degrees F, rolling 3 clock-hour average	Permit Condition #21423, Part 13d	C	Hearth 1 Temperature Monitor	X	Appendix G
Fugitive Emissions from Ash Handling	40 CFR 62, Subpart LLL, Section 15960(d); Table 3	Y		5% of the hourly observation period	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Visible Emission Test	X	1/18/22-1/20/22 NST-7110
Hearth 1 Temperature	40 CFR 62, Subpart LLL, Section 15960(d); Table 4	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Hearth 1 Temperature Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Pressure Drop	40 CFR 62, Subpart LLL, Section 15960(d); Table 4	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Wet Scrubber Pressure Drop Meter	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
Pressure Drop	40 CFR 60.152(a) (1); BAAQMD 6-1-310.1, SIP 6-310.1; BAAQMD 6-1-311, SIP 6-311	Y		Minimum scrubber pressure drop: 5.9" WC	40 CFR 64	C	Wet Scrubber Pressure Drop Meter	X	Appendix D

Source #: S-10					Source Name: Multiple Hearth Furnace #2				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Scrubber Liquid Flow	40 CFR 62, Subpart LLL, Section 15960(d); Table 4	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Wet Scrubber Effluent Liquid Flow Meter	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
pH of Scrubber Liquid	40 CFR 62, Subpart LLL, Section 15960(d); Table 4	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Scrubber Liquid pH Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit

**S-24 CENTRIFUGES AND CAKE HOPPERS**

Source #: S-24					Source Name: Centrifuges and Cake Hoppers				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
	SIP 6-301	Y		Ringelmann No. 1		N		X	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf		N		X	
	SIP 6-310	Y		0.15 grains/dscf		N		X	
	BAAQMD 6-1-311	N		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr		N		X	
	SIP 6-311	Y		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr		N		X	
Hydrogen Sulfide	BAAQMD 9-2-301	N		24 Hour Standard: GLC not to exceed 0.06 ppm average over 3 min and 0.03 ppm average over 60 min		N		X	
Hydrogen Sulfide	BAAQMD Condition #1716, Part 1	N		1.5 ppmvd		N		X	

**S-25 GASOLINE DISPENSING FACILITY**

Source #: S-25					Source Name: Gasoline Dispensing Facility				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Gasoline Throughput	Condition #7523, Part 1	N		400,000 gallons in any consecutive 12-month period	Condition #7523 Part 2	P/M	Records	X	Appendix H

**S-180 DISSOLVED AIR FLOTATION UNITS AND SLUDGE BLENDING TANKS**

Source #: S-180					Source Name: Dissolved Air Flotation Units and Sludge Blending Tanks				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
	SIP 6-301	Y		Ringelmann No. 1		N		X	

**S-182 ASH CONVEYING SYSTEM**

Source #: S-182					Source Name: Ash Conveying System				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/ Alarm	X	



Source #: S-182					Source Name: Ash Conveying System				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	SIP 6-301	Y		Ringelmann No. 1	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/ Alarm	X	
	BAAQMD 6-1-301	N		Ringelmann No. 1	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X	
	SIP 6-301	Y		Ringelmann No. 1	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/ Alarm	X	
	SIP 6-310	Y		0.15 grains/dscf	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/ Alarm	X	
	BAAQMD 6-1-310	N		0.15 grains/dscf	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X	

Source #: S-182					Source Name: Ash Conveying System				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	SIP 6-310	Y		0.15 grains/dscf	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X	
	BAAQMD 6-1-311	N		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/ Alarm	X	
	SIP 6-311	Y		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/ Alarm	X	
	BAAQMD 6-1-311	N		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X	
	SIP 6-311	Y		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X	
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		Visible emissions for no more than 5% of every hour	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 4	P/A	Visible Emissions Test	X	2/7/23-2/9/23

**S-188 NATURAL GAS FIRED TURBINE GENERATOR WITH HRSG**

Source #: S-188					Source Name: Natural Gas Fired Turbine Generator with HRSG				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Oxides of Nitrogen	BAAQMD 9-9-301.1.1	N		42 ppmvd @ 15% O <sub>2</sub> 3-hr average	BAAQMD Condition #21485, Part 11	C	CEM	X	RCA 08W41 for inoperative CEMS
Oxides of Nitrogen	SIP 9-9-301.1	Y		42 ppmvd @ 15% O <sub>2</sub> 3-hr average	BAAQMD Condition #21485, Part 11	C	CEM	X	RCA 08W41 for inoperative CEMS
Oxides of Nitrogen	BAAQMD 9-9-301.2	N		2.12 lb/MW-hr or 42 ppmvd @ 15% O <sub>2</sub> 3-hr average	BAAQMD Condition #21485, Part 11	C	CEM	X	RCA 08W41 for inoperative CEMS
	40 CFR Part 60.332(a) (2) and (c)	Y		167 ppm (dry basis) @ 15% O <sub>2</sub> on a clock-hour basis	40 CFR 60.334(b) BAAQMD Condition #21485, Part 11	C	CEM	X	RCA 08W41 for inoperative CEMS
Oxides of Nitrogen	BAAQMD Condition #21485, Part 2	Y		42 ppmvd @ 15% O <sub>2</sub> 3-hr average	BAAQMD 9-9-501, BAAQMD Condition #21485, Part 11	C	CEM	X	RCA 08W41 for inoperative CEMS
	BAAQMD Condition #21485, Part 4	Y		118 lb/day	BAAQMD Condition #21485, Part 11	C	CEM	X	RCA 08W41 for inoperative CEMS
	BAAQMD Condition #21485, Part 5	Y		19.824 tons/rolling 365-day period	BAAQMD Condition #21485, Part 11	C	CEM	X	RCA 08W41 for inoperative CEMS

Source #: S-188					Source Name: Natural Gas Fired Turbine Generator with HRSG				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Carbon Monoxide	BAAQMD Condition #21485, Part 6	Y		157 lb/24 hour	BAAQMD Condition #21485, Part 9a	P/A	Source Test	X 3/6/23 NST-8128	
	BAAQMD Condition #21485, Part 7	Y		26.376 tons/rolling 365-day period	BAAQMD Condition #21485, Part 9a	P/A	Source Test	X 3/6/23 NST-8128	
	BAAQMD Condition #21485, Part 9b	N		118 lb/24 hour	BAAQMD Condition #21485, Part 9b	P/Q&M	Portable Analyzer	X	
Sulfur Dioxide	BAAQMD 9-1-301	Y		GLC 0.5 ppm (3 min average) 0.25 ppm (60 min average) 0.05 ppm (24-hour average)		N		X	
Sulfur Dioxide	BAAQMD 9-1-302	N		300 ppmvd		N		X	
	NSPS Subpart GG, 60.333(b)	Y				N		X	
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
	SIP 6-301	Y		Ringelmann No. 1		N		X	

Source #: S-188				Source Name: Natural Gas Fired Turbine Generator with HRSG					
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Filterable Particulate	BAAQMD 6-1-310.3	N		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	
	SIP 6-310.3	Y		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	
Fuel usage	BAAQMD Condition #21485, Part 1b	Y		≤ 49.5 MMBtu/hr (HHV) on any fuel	BAAQMD Condition #21485, Part 12	P/D	Records	X	

**S-195 EMERGENCY STANDBY DIESEL GENERATOR #1**

Source #: S-195					Source Name: Emergency Standby Diesel Generator #1				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Sulfur Dioxide	BAAQMD 9-1-301	N		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	
	BAAQMD 9-1-304	Y		Sulfur content of fuel < 0.5% by weight		N		X	
Opacity	BAAQMD 6-1-303	N		> Ringelmann No. 2 for no more than 3 minutes/hr		N		X	
	SIP 6-303	Y		> Ringelmann No. 2 for no more than 3 minutes/hr		N		X	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf		N		X	
	SIP 6-310	Y		0.15 grains/dscf		N		X	
Hours of operation	BAAQMD 9-8-330.1	Y		Emergency use for an unlimited number of hours	BAAQMD Cond# 22850, Parts 3 and 4	P/E	Meter, Records	X	
	BAAQMD 9-8-330.2	Y		Reliability-related activities not to exceed 100 hours in any calendar year	BAAQMD Cond# 22850, Parts 3 and 4	P/E	Meter, Records	X	
	ATCM 93155.6(a)(3)(A)(2)	N		Reliability-related activities not to exceed 100 hours in any year	BAAQMD Cond# 22850, Parts 3 and 4	P/E	Meter, Records	X	

**S-196 EMERGENCY STANDBY DIESEL GENERATOR #3**

Source #: S-196					Source Name: Emergency Standby Diesel Generator #3				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Sulfur Dioxide	BAAQMD 9-1-301	N		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	
	BAAQMD 9-1-304	Y		Sulfur content of fuel <0.5% by weight		N		X	
Opacity	BAAQMD 6-1-303	N		> Ringelmann No. 2 for no more than 3 minutes/hr		N		X	
	SIP 6-303	Y		> Ringelmann No. 2 for no more than 3 minutes/hr		N		X	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf		N		X	
	SIP 6-310	Y		0.15 grains/dscf		N		X	
Hours of operation	BAAQMD 9-8-330.1	Y		Emergency use for an unlimited number of hours	BAAQMD Cond# 22850, Parts 3 and 4	P/E	Meter, Records	X	
	BAAQMD 9-8-330.2	Y		Reliability-related activities not to exceed 100 hours in any calendar year	BAAQMD Cond# 22850, Part 3 and 4	P/E	Meter, Records	X	
	ATCM 93155.6(a)(3)(A)(2)	N		Reliability-related activities not to exceed 100 hours in any year	BAAQMD Cond# 22850, Part 3 and 4	P/E	Meter, Records	X	

## **APPENDIX B**

### **BAAQMD PERMITTED SOURCES**



**APPENDIX B**

Central Contra Costa Sanitary District, Plant No. A0907  
 BAAQMD Permitted Sources  
 January 1, 2023 through December 31, 2023

BAAQMD Source No.	Permitted Source Description	Abated By	Abatement Device Description
7	Auxiliary Boiler #1	N/A	N/A
8	Auxiliary Boiler #2	N/A	N/A
9	Furnace #1	A-1	Multiple Cyclone
		A-2	Impingement Plate
10	Furnace #2	A-3	Multiple Cyclone
		A-4	Impingement Plate
24	Centrifuges & Cake Hoppers (four units)	A-14	Packed Bed Scrubber
		A-15	Packed Bed Scrubber
25	Gasoline Dispensing Facility	N/A	N/A
100	Wastewater Treatment Plant - Fugitive Emissions	N/A	N/A
110	Preliminary Treatment - Influent Structure, Influent Pumping, Bar Screens, and Grinders	A-23	Preformed Spray Scrubber
		A-24	Preformed Spray Scrubber
120	Primary Treatment - Aerated Grit Chamber (covered) and Four Primary Sedimentation Tanks	A-120	Preformed Spray Scrubber
130	Flow Equalization - Wastewater Holding Ponds	N/A	N/A
140	Secondary Treatment - Two Aerated Effluent Channel, Non-Aerated Section, and Primary Sediment to Aeration Basin Units	N/A	N/A
150	Secondary Clarifiers - Aerated Effluent Channel and Aeration Basins to Secondary Clarifiers	N/A	N/A
160	Tertiary Treatment - Four Gravity Filtration Units and Gravity Filtration Forebay	N/A	N/A
170	Disinfection - Aerated Effluent Channel and Secondary Clarifiers to Ultraviolet Disinfection	N/A	N/A
180	Sludge Handling Processes - Three Dissolved Air Flotation Units and One Sludge Blending Tank	A-14	Packed Bed Scrubber
		A-15	Packed Bed Scrubber
		A-187	Scrubber
182	Ash Conveying System	A-186	Baghouse, Pulse Jet
		A-191	Simple Cyclone
		A-192	Baghouse, Pulse Jet
		A-196	Baghouse, Pulse Jet
183	Pressure Tank, Liquefied Propane Gas	N/A	N/A
184	Liquefied Propane Gas Vaporizer	A-184	Flare
185	Lime Slaker/Lime Solution Storage Tank	A-185	Preformed Spray Scrubber
186	4% KMnO4 Solution Storage Tank	N/A	N/A
188	Cogeneration Turbine with Heat Recovery Steam Generator	A-188	Oxidation Catalyst
195	Standby Diesel Engine, 3048 Hp	A-1195	Catalyzed Diesel Particulate Filter
196	Standby Diesel Engine, 3048 Hp	A-1196	Catalyzed Diesel Particulate Filter
197	Sludge Loading Facility	A-199	Adsorption, Potassium Permanganate-impregnated Alumina and Coconut

## **APPENDIX C**

### **AUXILIARY BOILERS (S-7 AND S-8)**

#### **FIRST PASS TEMPERATURE**

**APPENDIX C**

Central Contra Costa Sanitary District, Plant No. A0907

Auxiliary Boilers Three-Clock Hour First Pass Minimum Temperature Monitoring Summary

January 1, 2023 through December 31, 2023

<b>Auxiliary Boiler No. 1 (S-7) Three-Clock Hour First Pass Minimum Temperature</b>					
<b>Month</b>	<b>Excursion Start Date/Time</b>	<b>Excursion End Date/Time</b>	<b>Duration (Hours)</b>	<b>Duration Above Limit (% of Total Available Hours in the Month)</b>	<b>Comments</b>
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	No exceedances
April			0.00	100.00%	No exceedances
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances
July			0.00	100.00%	No exceedances
August			0.00	100.00%	No exceedances
September			0.00	100.00%	No exceedances
October			0.00	100.00%	No exceedances
November			0.00	100.00%	No exceedances
December			0.00	100.00%	No exceedances

**Total exceedances (Hours):** 0  
**Total Above Limit Hours (% of Total Available Hours):** 100.00%

<b>Auxiliary Boiler No. 2 (S-8) Three-Clock Hour First Pass Minimum Temperature</b>					
<b>Month</b>	<b>Excursion Start Date/Time</b>	<b>Excursion End Date/Time</b>	<b>Duration (Hours)</b>	<b>Duration Above Limit (% of Total Available Hours in the Month)</b>	<b>Comments</b>
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	No exceedances
April			0.00	100.00%	No exceedances
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances
July			0.00	100.00%	No exceedances
August			0.00	100.00%	No exceedances
September			0.00	100.00%	No exceedances
October			0.00	100.00%	No exceedances
November			0.00	100.00%	No exceedances
December			0.00	100.00%	No exceedances

**Total exceedances (Hours):** 0  
**Total Above Limit Hours (% of Total Available Hours):** 100.00%

**APPENDIX D**

**FURNACES (S-9 AND S-10)**

**WET SCRUBBER PRESSURE DROP READINGS**

**APPENDIX D**

Central Contra Costa Sanitary District, Plant No. A0907  
 Furnaces Wet Scrubber Minimum Pressure Drop Monitoring Summary  
 January 1, 2023 through December 31, 2023

<b>Furnace No. 1 (S-9) Wet Scrubber Minimum Pressure Drop, Minimum 15-Minute Limit: 5.9" WC</b>					
<b>Month</b>	<b>Excursion Start Date/Time</b>	<b>Excursion End Date/Time</b>	<b>Duration (Hours)</b>	<b>Duration Above Limit (% of Total Available Hours in the Month)</b>	<b>Comments</b>
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	No exceedances
April	4/18/2023 14:00	4/18/2023 14:15	0.25	99.97%	RCA 08S16
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances
July			0.00	100.00%	No exceedances
August			0.00	100.00%	No exceedances
September			0.00	100.00%	No exceedances
October			0.00	100.00%	No exceedances
November			0.00	100.00%	No exceedances
December			0.00	100.00%	No exceedances

**Total exceedances (Hours):** 0.25  
**Total Above Limit Hours (% of Total Available Hours):** 99.997%

<b>Furnace No. 2 (S-10) Wet Scrubber Minimum Pressure Drop, Minimum 15-Minute Limit: 4.7" WC</b>					
<b>Month</b>	<b>Excursion Start Date/Time</b>	<b>Excursion End Date/Time</b>	<b>Duration (Hours)</b>	<b>Duration Above Limit (% of Total Available Hours in the Month)</b>	<b>Comments</b>
January			0.00	100.00%	No exceedances
February			0.00	100.00%	S-10 offline
March			0.00	100.00%	S-10 offline
April			0.00	100.00%	S-10 offline
May			0.00	100.00%	S-10 offline
June			0.00	100.00%	S-10 offline
July			0.00	100.00%	S-10 offline
August			0.00	100.00%	S-10 offline
September			0.00	100.00%	S-10 offline
October			0.00	100.00%	S-10 offline
November			0.00	100.00%	S-10 offline
December			0.00	100.00%	S-10 offline

**Total exceedances (Hours):** 0.00  
**Total Above Limit Hours (% of Total Available Hours):** 100.00%

**APPENDIX E**

**FURNACES (S-9 AND S-10)**

**OXYGEN READINGS**

**APPENDIX E**

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Oxygen Monitoring Summary

January 1, 2023 through December 31, 2023

<b>Furnace No. 1 (S-9) Oxygen, Maximum Hour Limit: 10%</b>					
<b>Month</b>	<b>Excursion Start Date/Time</b>	<b>Excursion End Date/Time</b>	<b>Duration (Hours)</b>	<b>Duration Above Limit (% of Total Available Hours in the Month)</b>	<b>Comments</b>
January			0.00	100.00%	No excursions
February			0.00	100.00%	No excursions
March			0.00	100.00%	No excursions
April			0.00	100.00%	No excursions
May			0.00	100.00%	No excursions
June			0.00	100.00%	No excursions
July			0.00	100.00%	No excursions
August			0.00	100.00%	No excursions
September			0.00	100.00%	No excursions
October			0.00	100.00%	No excursions
November			0.00	100.00%	No excursions
December			0.00	100.00%	No excursions

**Total Excursions (Hours):** 0

**Total Above Limit Hours (% of Total Available Hours):** 100.00%

<b>Furnace No. 2 (S-10) Oxygen, Maximum Hour Limit: 10%</b>					
<b>Month</b>	<b>Excursion Start Date/Time</b>	<b>Excursion End Date/Time</b>	<b>Duration (Hours)</b>	<b>Duration Above Limit (% of Total Available Hours in the Month)</b>	<b>Comments</b>
January			0.00	100.00%	No excursions
February			0.00	100.00%	S-10 offline
March			0.00	100.00%	S-10 offline
April			0.00	100.00%	S-10 offline
May			0.00	100.00%	S-10 offline
June			0.00	100.00%	S-10 offline
July			0.00	100.00%	S-10 offline
August			0.00	100.00%	S-10 offline
September			0.00	100.00%	S-10 offline
October			0.00	100.00%	S-10 offline
November			0.00	100.00%	S-10 offline
December			0.00	100.00%	S-10 offline

**Total Excursions (Hours):** 0

**Total Above Limit Hours (% of Total Available Hours):** 100.00%

**APPENDIX F**

**FURNACES (S-9 AND S-10)**

**OPACITY READINGS**



**APPENDIX F**

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Opacity Monitoring Summary

January 1, 2023 through December 31, 2023

<b>Furnace No. 1 (S-9) Opacity, Maximum Limit: 20%</b>					
<b>Month</b>	<b>Exceedance Start Date/Time</b>	<b>Exceedance End Date/Time</b>	<b>Duration (Hours)</b>	<b>Duration Below Limit (% of Total Available Hours in the Month)</b>	<b>Comments</b>
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	No exceedances
April			0.00	100.00%	No exceedances
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances
July			0.00	100.00%	No exceedances
August			0.00	100.00%	No exceedances
September			0.00	100.00%	No exceedances
October			0.00	100.00%	No exceedances
November			0.00	100.00%	No exceedances
December			0.00	100.00%	No exceedances

**Total Excursions (Hours):** 0.00

**Total Above Limit Hours (% of Total Available Hours):** 100.000%

<b>Furnace No. 2 (S-10) Opacity, Maximum Limit: 20%</b>					
<b>Month</b>	<b>Exceedance Start Date/Time</b>	<b>Exceedance End Date/Time</b>	<b>Duration (Hours)</b>	<b>Duration Below Limit (% of Total Available Hours in the Month)</b>	<b>Comments</b>
January			0.00	100.00%	No exceedances
February			0.00	100.00%	S-10 offline
March			0.00	100.00%	S-10 offline
April			0.00	100.00%	S-10 offline
May			0.00	100.00%	S-10 offline
June			0.00	100.00%	S-10 offline
July			0.00	100.00%	S-10 offline
August			0.00	100.00%	S-10 offline
September			0.00	100.00%	S-10 offline
October			0.00	100.00%	S-10 offline
November			0.00	100.00%	S-10 offline
December			0.00	100.00%	S-10 offline

**Total Excursions (Hours):** 0.00

**Total Above Limit Hours (% of Total Available Hours):** 100.000%

**APPENDIX G**

**FURNACES (S-9 AND S-10)**

**HEARTH TEMPERATURES**

**APPENDIX G**

Central Contra Costa Sanitary District, Plant No. A0907  
 Furnaces Hearth Temperature Monitoring Summary  
 January 1, 2023 through December 31, 2023

Furnace No. 1 (S-9) Hearth Minimum Temperatures						
Month	Excursion Start Date/Time	Excursion End Date/Time	Hearth	Duration (Hours)	Duration Above Limit (% of Total Available Hours in the Month)	Comments
January				0.00	100.00%	No excursions
February				0.00	100.00%	No excursions
March	3/16/2023 12:00	3/16/2023 14:00	6	2.00	99.98%	
April				0.00	100.00%	No excursions
May				0.00	100.00%	No excursions
June	6/14/2023 23:00	6/15/2023 0:00	6	1.00	99.97%	
	6/28/2023 3:00	6/28/2023 4:00	6	1.00		
July	7/26/2023 7:00	7/26/2023 8:00	6	1.00	99.99%	
August	8/10/2023 0:00	8/10/2023 1:00	1	1.00	99.96%	
	8/10/2023 3:00	8/10/2023 4:00	6	1.00		
	8/11/2023 13:00	8/11/2023 14:00	6	1.00		
September				0.00	100.00%	No excursions
October	10/10/2023 15:00	10/10/2023 17:00		2.00	99.90%	
	10/15/2023 7:00	10/15/2023 9:00		2.00		
	10/15/2023 22:00	10/16/2023 0:00		2.00		
	10/16/2023 7:00	10/16/2023 8:00		1.00		
	10/16/2023 9:00	10/16/2023 10:00		1.00		
November	11/18/2023 2:00	11/18/2023 3:00		1.00	99.99%	
December				0.00	100.00%	No excursions

Total Excursions (Hours): 17  
 Total Above Limit Hours (% of Total Available Hours): 99.81%

Furnace No. 2 (S-10) Hearth Minimum Temperatures						
Month	Excursion Start Date/Time	Excursion End Date/Time	Hearth	Duration (Hours)	Duration Above Limit (% of Total Available Hours in the Month)	Comments
January	1/11/2023 13:00	1/11/2023 14:00	6	1.00	99.94%	
	1/24/2023 17:00	1/24/2023 18:00	6	1.00		
	1/25/2023 18:00	1/25/2023 21:00	6	3.00		
February				0.00	100.00%	S-10 offline
March				0.00	100.00%	S-10 offline
April				0.00	100.00%	S-10 offline
May				0.00	100.00%	S-10 offline
June				0.00	100.00%	S-10 offline
July				0.00	100.00%	S-10 offline
August				0.00	100.00%	S-10 offline
September				0.00	100.00%	S-10 offline
October				0.00	100.00%	S-10 offline
November				0.00	100.00%	S-10 offline
December				0.00	100.00%	S-10 offline

Total Excursions (Hours): 5  
 Total Above Limit Hours (% of Total Available Hours): 99.94%

**APPENDIX H**

**GASOLINE DISPENSING FACILITY (S-25)**

**GASOLINE METER READINGS**

**APPENDIX H**

Central Contra Costa Sanitary District, Plant No. A0907

Gasoline Dispensing Facility Gasoline Meter Readings Summary

January 1, 2023 through December 31, 2023

<b>Gasoline Dispensing Facility (S-25) Gasoline Meter Readings Summary</b>				
<b>Month</b>	<b>Gasoline Meter Readings (gallons)</b>	<b>Rolling 12-month Total (gallons)</b>	<b>Quarterly Total (gallons)</b>	<b>12-month Total (gallons)</b>
January	1,852	536	33	336
February	1,852	393		
March	1,877	400		
April	1,913	359	156	
May	1,960	360		
June	2,033	415		
July	2,097	435	111	
August	2,126	419		
September	2,144	423		
October	2,176	385	36	
November	2,179	373		
December	2,180	336		

*Consecutive 12-month Maximum Limit: 400,000*

**APPENDIX I**

**SULFUR DIOXIDE CONCENTRATIONS**

**FROM LANDFILL GAS AND NATURAL GAS COMBUSTION**

**(QUARTERLY REQUIREMENT)**

**APPENDIX I (Quarterly Requirement)**

Central Contra Costa Sanitary District, Plant No. A0907

Quarterly SO<sub>2</sub> Concentration Summary

January 1, 2023 through December 31, 2023

SO <sub>2</sub> Concentration from Landfill Gas Combustion					
Month	HHV (BTU/scf)	H <sub>2</sub> S Concentration (ppm)	Quarterly Average HHV (BTU/scf)	Quarterly Max H <sub>2</sub> S Concentration (ppm)	Max SO <sub>2</sub> Discharge from LFG Combustion in Boilers and MHFs @ 0% O <sub>2</sub> (ppm)
January	499	45.0	507	51.0	10.7
February	508	51.0			
March	515	45.0			
April	543	38.0	539	38.0	7.5
May	539	33.0			
June	536	31.0			
July	539	32.0	522	84.0	17.1
August	520	84.0			
September	508	52.0			
October	523	51.0	530	51.0	10.2
November	518	48.0			
December	549	43.0			

*F-factor for LFG (scf exhaust/BTU): 0.00943*

*Limit: 300 ppm*

SO <sub>2</sub> Concentration from Natural Gas Combustion			
Quarter	Most Recent Total Sulfur Maximum (gr/100 scf)	Average Heating Value (J15) (BTU)	Max SO <sub>2</sub> Discharge from NG Combustion in Boilers, MHFs, and Cogen @ 0% O <sub>2</sub> (ppm)
First	0.25	1,044	0.46
Second	0.26	1,061	0.47
Third	0.26	1,045	0.47
Fourth	0.25	1,050	0.45

*F-factor for NG (scf exhaust/BTU): 0.00871*

*Limit: 300 ppm*

**APPENDIX J**

**TOTAL ORGANIC CARBON LEAKS – LANDFILL GAS SYSTEM**

**(QUARTERLY REQUIREMENT)**



**APPENDIX J (Quarterly Requirement)**

Central Contra Costa Sanitary District, Plant No. A0907

Quarterly Total Organic Carbon Leak Checks Summary

January 1, 2023 through December 31, 2023

<b>Landfill Gas System at Central San</b>		
<b>Quarter</b>	<b>Date of Leak Check</b>	<b>No. of Leaks &gt;1000 ppm Detected and Repaired</b>
First	3/3/2023	6
Second	6/15/2023	0
Third	8/9/2023	0
Fourth	11/16/2023	0

<b>Landfill Gas Delivery System Operated by Acme Landfill</b>		
<b>Quarter</b>	<b>Date of Leak Check</b>	<b>No. of Leaks &gt;1000 ppm Detected and Repaired</b>
First	3/30/2023	0
Second	6/28/2023	0
Third	9/27/2023	0
Fourth	12/14/2023	0