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January 27, 2021

ELECTRONIC SUBMITTAL: compliance@baaqmd.gov

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

TV Tracking #: 146
1. ☐ RECEIVED IN ENFORCEMENT: 01/29/2021
(semi-annual)

SUBJECT: 2020 TITLE V ANNUAL, JULY THROUGH DECEMBER 2020 SEMI-ANNUAL, AND FOURTH QUARTER 2020 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 combined 2020 Title V Annual, July through December 2020 Semi-Annual, and Fourth Quarter 2020 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 Senior Engineer Randy Schmidt at 925-229-7333 or via email at rschmidt@centralsan.org.

Sincerely,

Roger Bailey

Roger S. Bailey
General Manager

Enclosures

Cc: McKenzie Bell – MBell@baaqmd.gov

2020 TITLE V ANNUAL, JULY THROUGH DECEMBER 2020 SEMI-ANNUAL, AND FOURTH QUARTER 2020 COMBINED REPORT

January 1, 2020 through December 31, 2020

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

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, 2020 through December 31, 2020, reporting requirements for the semi-annual period of July 1, 2020 through December 31, 2020, as well as the fourth quarter reporting requirements for October 1, 2020 through December 31, 2020.

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_2) 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

The following sections summarize the compliance activities for January 1, 2020 through December 31, 2020.

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

Both auxiliary boilers (S-7 and S-8) were operated on NG and LFG during the reporting period. Both S-7 and S-8 did not operate 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: 2020 Auxiliary Boilers Fuel Oil Usage

	Hours of Testing	Hours of NG Curtailment	Fuel Consumed (gal)
Auxiliary Boiler No. 1 (S-7)	0	0	0
Auxiliary Boiler No. 2 (S-8)	0	0	0
Limit	*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 and S-8 (NST-6127) was conducted on September 30-October 1, 2020 and the final report was submitted to BAAQMD electronically on November 5, 2020. All emissions complied with the applicable permit conditions. The maximum stack temperature measured during the source tests for both S-7 and S-8 was 351 °F, in compliance with the maximum limit of 466 °F.

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

Furnace No. 2 (S-10) operated until October 16, 2020, and Furnace No. 1 (S-9) started its operation on October 14, 2020. 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 12-month cumulative solid fuel throughput to S-9 and S-10 during the reporting period was 15,925 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.

The wet scrubber pressure drop for S-9 was above the minimum limit of 5.9 inches of water column 100 percent of the time during the reporting period (Appendix D). The wet scrubber pressure drop for S-10 was above the minimum limit of 4.7 inch water column C 100 percent of the time during the reporting period (Appendix D).

The one-hour Hearth No. 2 oxygen (O_2) measurements for S-9 were below the 10 percent O_2 maximum limit for 100 percent of the reporting time (Appendix E). The one-hour Hearth No. 2 O_2 measurements for S-10 were below the 10 percent O_2 maximum limit for 100 percent of the reporting time (Appendix E). The total hydrocarbon emissions were well below the limit of 100 ppm corrected to 7 percent O_2.

The opacity measurements for S-9 were in compliance for 100 percent of the reporting time. The opacity measurements for S-10 were in compliance for 100 percent of the reporting time (Appendix F).

Hearth temperatures lower than the following clock-hour minimums must be reported. The hearth temperature readings for S-9 were above their minimum limits for 99.998 percent of the reporting period, and the hearth temperature readings for S-10 were above their minimum limits for 99.999 percent of the reporting period. See Appendix G for a summary of hearth temperature excursions.

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 was only one inoperative monitor incident associated with an inoperative supplemental natural gas flowmeter (RCA 07W16) 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
    - RCA 07W16 submitted for an inoperative supplemental NG flowmeter. See Reportable Compliance Activities [RCAs] below.
- Internal afterburner (Hearth No. 1) temperature monitor
- Hearth Nos. 2-11 temperature monitors

On October 20-22, 2020, Montrose Air Quality Services, LLC conducted annual emissions testing on S-9 on behalf of Central San (NST-6178) for SO_2, non-methane organic carbon, and pollutants regulated under the Clean Air Act Section 129 (129) Sewage Sludge Incinerator (SSI) regulations. Emission results were below their respective limits and were submitted to BAAQMD electronically on December 3, 2020 and the United States Environmental Protection Agency on December 17, 2020.

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 2020.

S-9 was offline for a majority of 2020 after being shut down in September 2019 for annual maintenance. The annual air pollution control device inspection for the dry cyclone scrubber (A-1) and wet scrubber (A-2) on S-9 was completed in August 2020 before bringing the unit back 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-3) and wet scrubber (A-4) on S-10, the unit online for a majority of 2020, was completed in August 2019 prior to S-10 being brought online. Welding was performed to repair minor cracks observed in A-3. The equipment was operating properly and was in generally good operating condition.

The following sections summarize the RCAs and permit deviations that were submitted to BAAQMD during the reporting period:

January 9, 2020 Inoperative Cogeneration Oxides of Nitrogen (NO_x) Monitor (RCA 07R27)

On January 9, 2020, Central San submitted RCA 07R27 to report that the NO_x monitor on S-188 was inoperative and removed for annual preventative maintenance. The inoperative period officially began on January 9, 2020 at 07:24 and ended on January 22, 2020 at 09:05 after a phone call with BAAQMD to clear the RCA.

April 14, 2020 Furnace No. 2 Emergency Bypass Damper

On April 14, 2020, a remote input/output (I/O) connection failure caused S-10's programmable logic controller to lose its connection to the furnace emergency bypass damper. This caused the bypass damper to reset, fail-open, and remain open from 15:47:21 to 15:51:32 for a duration of 4 minutes and 11 seconds. The 10-Day Deviation Report was submitted to BAAQMD on April 22, 2020, and the 30-Day Title V Report was submitted to BAAQMD on May 11, 2020.

April 24, 2020 Furnace No. 2 Emergency Bypass Damper

On April 24, 2020, auxiliary fuel feed to S-10 was switched from LFG to NG, causing unstable combustion conditions and a rapid increase in Hearth No. 1's temperatures. In response, the downstream waste heat boiler (WHB) feedwater flow rapidly increased to maintain steam production and water level in the WHB. The large influx of cooler feedwater suppressed boiling and decreased water level within the WHB below the low water cutout, triggering the furnace emergency bypass damper to open from 07:54:51 to 07:55:58 for a duration of 1 minute and 7 seconds. The 10-Day Deviation Report was submitted to BAAQMD on May 4, 2020, and the 30-Day Title V Report was submitted to BAAQMD on May 23, 2020.

October 20, 2020 Furnace No. 1 Supplemental Natural Gas Flowmeter (RCA 07W16)

On October 21, 2020, Central San submitted RCA 07W16 for an inoperative supplemental NG flowmeter on S-9. The S-9 supplemental NG flowmeter spiked at 14:53 on October 19, 2020 and flatlined shortly after at 145 thousand cubic feet/day (kcfd), indicating an inoperative flowmeter. The supplemental NG valve was shutoff on the morning of October 20, 2020 and staff confirmed that no supplemental NG flow was fed to S-9 during the annual compliance demonstration. As monitors that are inoperative for more than 24 hours must be reported, the official start time of the supplemental NG flowmeter inoperative period is 14:53 on October 20, 2020. On

October 23, 2020, the flowmeter was back in service at 08:18 and a notice of the flowmeter's resumption was sent to BAAQMD.

November 6, 2020 Inoperative Cogeneration NO_x Monitor (RCA 07W58)

On November 6, 2020, Central San submitted RCA 07W58 to report the inoperative NO_x monitor as it was sent to the manufacturer for annual preventative maintenance. A notice of resumption was emailed to BAAQMD on November 13, 2020 after the NO_x monitor was placed back in service on November 12, 2020 at 13:01.

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 436 gallons (Appendix H). The maximum consecutive 12-month total during the reporting period was 526 gallons, which is significantly less than the limit of 400,000 gallons in any consecutive 12-month period. On May 13, 2020, Reinholdt Engineering Construction conducted the annual static pressure test according to the requirements in BAAQMD ST-27 and ARB Executive Order VR-402, Test Procedure TP 206.3. No issues were noted during the annual test.

BAAQMD conducted an inspection of S-25 on February 5, 2020 and requested a follow-up on the paint type used during the painting of the 2,000-gallon Convault gasoline tank. The tank was repainted on April 10, 2020 with CARB-approved coatings per VR-301 to comply with standing loss control. BAAQMD noted the tank paint is in compliance and closed the inspection on June 15, 2020 via email.

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 scrubbers A-23 or A-24 at all times that malodorous compounds were present.

As a condition of the final Permit-to-Operate for Authority-to-Construct Permit No. 28348, Central San is required to ensure that hydrogen sulfide (H_2S) 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_2S monitoring results are summarized in Table 2.

Table 2: A-23 and A-24 H_2S Monitoring Results			
Quarter	**Monitoring Date**	**OCU East (A-23) H_2S, ppm**	**OCU West (A-24) H_2S, ppm**
1	2/14/2020	0.59	**0.08**
2	5/14/2020	0.00	**0.00**
3	8/28/2020	0.04	**0.05**
4	10/19/2020	0.00	**0.00**
	H_2S Limit	*10 ppm*	

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. NO_x emissions from S-188 did not exceed the following maximum limits:

- Clock-hour average of 167 ppmvd at 15 percent O_2
- Three-clock hour average of 42 ppmvd at 15 percent O_2
- 118 pounds of NO_x per any rolling consecutive 24-hour period
- 19.834 tons of NO_x per any rolling 365 consecutive day period

All span and zero calibrations for the NO_x continuous emission monitoring system were within their respective limits when the continuous emission monitoring system was in operation. Central San submitted two separate RCAs for the inoperative NO_x monitor due to removal for annual preventative maintenance. More details are available in the Furnaces section above detailing RCAs and permit deviations submitted to BAAQMD.

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.

Compliance with the carbon monoxide (CO) limits is demonstrated by an annual source test. The most recent compliance source test was conducted on September 22, 2020 (NST-6128). The measured CO emissions averaged 62 pounds per day and 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 also be monitored for 30 continuous minutes on a quarterly basis 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. Per the S-188 permit condition, Central San is subject to quarterly monitoring of CO emissions since CO emissions were estimated at less than 118 pounds/day for the first 12 consecutive months since catalyst start-up in 2018. If CO emissions are estimated at more than 118 pounds/day during a quarterly monitoring event, Central San will revert to monthly CO monitoring.

Central San has monitored CO emissions quarterly since 2019. CO emissions from S-188 were less than 118 pounds/day for the entire reporting period. Quarterly CO monitoring results during the reporting period are summarized in Table 3.

Table 3: S-188 CO Monitoring Results

Quarter	Cogen NG Flow (kcfd)	CO Concentration (ppm)	O_2 Concentration (%)	CO Mass Emissions (lb/day)	Sample Date
1	960	22.67	16.81	73.83	01/09/20
2	855	21.53	17.28	70.44	05/13/20
3	904	20.54	16.95	65.23	09/03/20
4	924	23.80	16.74	73.32	10/10/20
			Monthly Monitoring Limit:	*118.00 lb/day*	
			Permit Limit:	*157.00 lb/day*	

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. In 2020, S-195 was operated for 4 hours for testing and maintenance and S-196 was operated for 4 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). S-197 is allowed 500 run hours annually for maintenance and testing based on a recent change of permit conditions from BAAQMD.

BAAQMD issued an Authority-to-Construct Permit dated July 2, 2019 for improvements to the odor control treatment system for S-197 that include a new odor control unit (A-199) and associated blower. The work began in 2019 and was completed in June 2020. Central San submitted a tentative startup date of June 22, 2020 to BAAQMD for the operation of the retrofitted facility. During the reporting period, S-197 was only exercised during the initial startup of the retrofitted facility. The startup emissions were in compliance with the respective limits for H_2S and organic compounds and submitted to BAAQMD following the startup testing.

After project completion on July 31, 2020, Central San submitted a request to increase the annual maintenance and testing hours for S-197 and remove annual operating hours limit of 4,190 hours per year. On December 16, 2020, BAAQMD issued a Change of Permit Conditions for Application No. 30649 to increase the annual limit for maintenance and testing of S-197 from 100 hours to 500 hours per year and remove annual operating hours limit for S-197.

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 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 United States Environmental Protection Agency, Region IX.

3 Fourth Quarter 2020 Reporting Requirements

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_2 Concentration from Landfill Gas Combustion

The maximum LFG hydrogen sulfide concentration was 55.0 ppmv during the fourth quarter period. Based on this H_2S concentration, the estimated maximum exhaust gas SO_2 concentration from either auxiliary boiler (S-7 and S-8) is 11.1 ppmvd SO_2. This concentration is significantly lower than the permit limit of 300 ppmvd SO_2.

3.2 SO_2 Concentration from Natural Gas Combustion

The maximum SO_2 emissions from the combustion of NG are based on the maximum total sulfur content of 0.31 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 2020.

While burning NG, the maximum SO_2 concentration in the stack gas from the Auxiliary Boilers (S-7 and S-8) and Cogeneration (S-188) during the reporting period was 0.60 ppmvd SO_2. This concentration is significantly lower than the permit limit of 300 ppmvd SO_2.

Quarterly SO_2 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's consultant and was tested on December 30, 2020. 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 18, 2020. 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, 2020 through December 31, 2020, the semi-annual period of July 1, 2020 through December 31, 2020, and the fourth quarter period of October 1, 2020 through December 31, 2020. To the best of my knowledge, the information contained herein is true and accurate.

Roger Bailey

1/29/2021

Roger S. Bailey **Date**
General Manager

APPENDIX A

TITLE V SEMI-ANNUAL MONITORING VERIFICATION REPORT

Appendix A
Title V Semi-Annual Monitoring Verification Report

Date: January 31, 2021

Period: 1/1/2020 – 12/31/2020

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 27
S-24 CENTRIFUGES AND CAKE HOPPERS 40
S-25 GASOLINE DISPENSING FACILITY 41
S-180 DISSOLVED AIR FLOTATION UNITS AND SLUDGE BLENDING TANKS 41
S-182 ASH CONVEYING SYSTEM 41
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_2	BAAQMD Condition #21422, part 7	P/once every 60 months	Source Test	X 9/30/20 NST-6127	
	SIP 9-7-302.1 (Non-Gaseous Fuels)	Y		40 ppmvd @ 3% O_2	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_2 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_2 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_2 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_2 for gaseous fuels except landfill or digester gas	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 9/30/20 NST-6127	
Oxides of Nitrogen	BAAQMD 9-7-307.4	N		15 ppmvd @ 3% O_2 for gaseous fuels except landfill or digester gas	BAAQMD 9-7-506	P/A	Portable Analyzer	X 9/30/20 NST-6127	
Oxides of Nitrogen	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O_2 for landfill or digester gas	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 9/30/20 NST-6127	
	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O_2 for landfill or digester gas)	BAAQMD 9-7-506	P/A	Portable Analyzer	X 9/30/20 NST-6127	
Carbon Monoxide	SIP 9-7-301.2 (Gaseous Fuels)	Y		400 ppmvd @ 3% O_2	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 9/30/20 NST-6127	

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_2		N		X	
	SIP 9-7-305.2	Y		400 ppmvd @ 3% O_2 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_2 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_2 for gaseous, landfill gas and digester gas	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 9/30/20 NST-6127	
	BAAQMD 9-7-307.4, 9-7-307.7, and 9-7-307.8	N		400 ppmvd @ 3% O_2 for gaseous, landfill gas and digester gas	BAAQMD 9-7-506	P/A	Portable Analyzer	X 9/30/20 NST-6127	
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_2		N		X	
	SIP 6-310	Y		0.15 grains/dscf @ 6% O_2		N		X	
Organics & CH_4	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_2	BAAQMD, Condition #21422, part 6	C	Temperature Monitor	X Appendix C	
	BAAQMD 8-34-301.2	N		Max Leakage: 1000 ppmvd (as CH_4)	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_2	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_2	BAAQMD 8-34-508	C	Gas Flow Meter	X	
Organics & CH_4	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_2	BAAQMD 8-34-412	P/A	Source Test	X 9/30/20 NST-6127	
Organics & CH_4	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH_4)	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 9/30/20 NST-6127	

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_2	BAAQMD Condition #21422, part 7	P/once every 60 months	Source Test	X 10/1/20 NST-6127	
	SIP 9-7-302.1 (Non-Gaseous Fuels)	Y		40 ppmvd @ 3% O_2	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_2 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_2 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_2 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_2 for gaseous fuels except landfill or digester gas	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 10/1/20 NST-6127	
Oxides of Nitrogen	BAAQMD 9-7-307.4	N		15 ppmvd @ 3% O_2 for gaseous fuels except landfill or digester gas	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/1/20 NST-6127	
Oxides of Nitrogen	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O_2 for landfill or digester gas	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 10/1/20 NST-6127	
	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O_2 for landfill or digester gas)	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/1/20 NST-6127	
Carbon Monoxide	SIP 9-7-301.2 (Gaseous Fuels)	Y		400 ppmvd @ 3% O_2	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 10/1/20 NST-6127	

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_2		N		X	
	SIP 9-7-305.2	Y		400 ppmvd @ 3% O_2 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_2 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_2 for gaseous, landfill gas and digester gas	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 10/1/20 NST-6127	
	BAAQMD 9-7-307.4, 9-7-307.7, and 9-7-307.8	N		400 ppmvd @ 3% O_2 for gaseous, landfill gas and digester gas	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/1/20 NST-6127	
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_2		N		X	
	SIP 6-310	Y		0.15 grains/dscf @ 6% O_2		N		X	
Organics & CH_4	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_2	BAAQMD, Condition #21422, part 6	C	Temperature Monitor	X Appendix C	
	BAAQMD 8-34-301.2	N		Max Leakage: 1000 ppmvd (as CH_4)	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_2	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_2	BAAQMD 8-34-508	C	Gas Flow Meter	X	
Organics & CH_4	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_2	BAAQMD 8-34-412	P/A	Source Test	X 10/1/20 NST-6127	
Organics & CH_4	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH_4)	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 10/1/20 NST-6127	

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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O_2	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 10/20/20-10/22/20 NST-6178	

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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	
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_2 and as if no auxiliary fuel is used	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 10/20/20-10/22/20 NST-6178	

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**
	SIP 6-310.1	Y		0.15 grains/dscf @ 12% CO_2 and as if no auxiliary fuel is used	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 10/20/20-10/22/20 NST-6178	
	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 10/20/20-10/22/20 NST-6178	
Filterable Particulate	SIP 6-311	Y		$4.10P^{0.67}$ 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 10/20/20-10/22/20 NST-6178	
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	

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)(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_2 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 10/20/20 RCA 07W16 for inoperative supplemental NG flowmeter	
	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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	

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_2 (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_2 (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-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 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O_2 (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 10/20/20-10/22/20 NST-6178	
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_2	BAAQMD Condition 21423, part 12	C	Hearth 1 Temperature Monitor	X Appendix G	
CH_4	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH_4)	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_2	BAAQMD 8-34-507	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**
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_2	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_2	BAAQMD 8-34-412	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	
Hydrogen Chloride	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O_2	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-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**
Carbon Monoxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		3,800 ppmvd @ 7% O_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	
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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	
Hydrogen Sulfide	BAAQMD 9-2-301	N		24 Hour Standard: GLC not to exceed 0.06 ppm avg over 3 min and 0.03 ppm avg 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 10/20/20-10/22/20 NST-6178	
	BAAQMD 11-1-302	Y		Max GLC (w/o background): 1.0 microgram/cu m (24 hour average)		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**
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.30 mg/dscm @ 7% O_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	
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 10/20/20-10/22/20 NST-6178	
	40 CFR Part 61.32	Y		10 g/ 24 hr	BAAQMD Condition #21423, part 10	P/ once every 60 months	Source Test	X 10/20/20-10/22/20 NST-6178	
Mercury	BAAQMD 11-5-302, Condition #21423, Part 7	N		3200 g/24 hr	BAAQMD Condition #21423, parts 7, 8, 10	P/once every 60 months	Source Test	X 10/20/20-10/22/20 NST-6178	
	40 CFR Part 61.52 (b)	Y		3.2 kg/24 hr	40 CFR Part 61.53	P/A	Sludge Analysis	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**
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.28 mg/dscm @ 7% O_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	
Cadmium	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.095 mg/dscm @ 7% O_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20-10/22/20 NST-6178	
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-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 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 10/20/20-10/21/20 Completed during annual 129 compliance demonstration source test	
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	

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 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	
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" W.C	40 CFR 64	C	Wet Scrubber Pressure Drop Meter	X Appendix D	

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**
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	
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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O_2	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 11/19/19-11/21/19 NST-5648	

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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
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_2 and as if no auxiliary fuel is used	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 11/19/19-11/21/19 NST-5648	

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_2 and as if no auxiliary fuel is used	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 11/19/19-11/21/19 NST-5648	
	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 11/19/19-11/21/19 NST-5648	
	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 11/19/19-11/21/19 NST-5648	
Filterable Particulate	SIP 6-311	Y		$4.10P^{0.67}$ 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 11/19/19-11/21/19 NST-5648	
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_2 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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O_2 (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_2 (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_2 (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 11/19/19-11/21/19 NST-5648	
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_2	BAAQMD Condition 21423, part 12	C	Hearth 1 Temperature Monitor	X Appendix G	
CH_4	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH_4)	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_2	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_2	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_2	BAAQMD 8-34-412	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
Hydrogen Chloride	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O_2	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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
Hydrogen Sulfide	BAAQMD 9-2-301	N		24 Hour Standard: GLC not to exceed 0.06 ppm ave over 3 min and 0.03 ppm ave 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 11/19/19-11/21/19 NST-5648	
	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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
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 11/19/19-11/21/19 NST-5648	
	40 CFR Part 61.32	Y		10 g/ 24 hr	BAAQMD Condition #21423, part 10	P/ once every 60 months	Source Test	X 11/19/19-11/21/19 NST-5648	
Mercury	BAAQMD 11-5-302, Condition #21423, Part 7	N		3200 g/24 hr	BAAQMD Condition #21423, parts 7, 8, 10	P/once every 60 months	Source Test	X 11/19/19-11/21/19 NST-5648	
	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_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
Cadmium	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.095 mg/dscm @ 7% O_2	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19-11/21/19 NST-5648	
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 11/19/19-11/21/19 NST-5648	
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" W.C	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		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr		N		X	
	SIP 6-311	Y		$4.10P^{0.67}$ 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 ave over 3 min and 0.03 ppm ave 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 LeakGauge 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 LeakGauge 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 LeakGauge Particulate Monitor/ Alarm	X	
	SIP 6-310	Y		0.15 grains/dscf	BAAQMD Condition #21425, part 4	C	Mikro-Charge LeakGauge 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		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, part 4	C	Mikro-Charge LeakGauge Particulate Monitor/ Alarm	X	
	SIP 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, part 4	C	Mikro-Charge LeakGauge Particulate Monitor/ Alarm	X	
	BAAQMD 6-1-311	N		$4.10P^{0.67}$ 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		$4.10P^{0.67}$ 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 10/20/20-10/21/20	

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_2 3-hr average	BAAQMD Condition #21485, part 11	C	CEM	X	
Oxides of Nitrogen	SIP 9-9-301.1	Y		42 ppmvd @ 15% O_2 3-hr average	BAAQMD Condition #21485, part 11	C	CEM	X	
Oxides of Nitrogen	BAAQMD 9-9-301.2	N		2.12 lb/MW-hr or 42 ppmvd @ 15% O_2 3-hr average	BAAQMD Condition #21485, part 11	C	CEM	X	
	40 CFR Part 60.332(a)(2) and (c)	Y		167 ppm (dry basis) @ 15% O_2 on a clock-hour basis	40 CFR 60.334(b) BAAQMD Condition #21485, part 11	C	CEM	X	
Oxides of Nitrogen	BAAQMD Condition #21485, Part 2	Y		42 ppmvd @ 15% O_2 3-hr average	BAAQMD 9-9-501, BAAQMD Condition #21485, part 11	C	CEM	X	
	BAAQMD Condition #21485, part 4	Y		118 lb/day	BAAQMD Condition #21485, part 11	C	CEM	X	
	BAAQMD Condition #21485, part 5	Y		19.824 tons/rolling 365-day period	BAAQMD Condition #21485, part 11	C	CEM	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**
Carbon Monoxide	BAAQMD Condition #21485, part 6	Y		157 lb/24 hour	BAAQMD Condition #21485, part 9a	P/A	Source Test	X 9/22/20 NST-6128	
	BAAQMD Condition #21485, part 7	Y		26.376 tons/rolling 365-day period	BAAQMD Condition #21485, part 9a	P/A	Source Test	X 9/22/20 NST-6128	
	BAAQMD Condition #21485, part 9b	N		118 lb/24 hour	BAAQMD Condition #21485, part 9b	P/Q	Portable Analyzer	X	
Sulfur Dioxide	BAAQMD 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 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_2		N		X	
	SIP 6-310.3	Y		0.15 grains/dscf @ 6% O_2		N		X	
Fuel usage	BAAQMD Condition #21485, part 1b	Y		$\leq$ 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[1] 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	

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[1] 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 Sources
January 1, 2020 through December 31, 2020

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-197	Packed Bed Scrubber (removed and replaced with A-199)
		A-199	Adsorption, Silica (operational starting in June 2020)

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, 2020 through December 31, 2020

Auxiliary Boiler No. 1 (S-7) Three-Clock Hour First Pass Minimum Temperature					
Month	**Excursion Start Date/Time**	**Excursion End Date/Time**	**Duration (Hours)**	**Duration Above Limit (% of Total Available Hours in the Month)**	**Comments**
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%

Auxiliary Boiler No. 2 (S-8) Three-Clock Hour First Pass Minimum Temperature					
Month	**Excursion Start Date/Time**	**Excursion End Date/Time**	**Duration (Hours)**	**Duration Above Limit (% of Total Available Hours in the Month)**	**Comments**
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, 2020 through December 31, 2020

Furnace No. 1 (S-9) Wet Scrubber Minimum Pressure Drop, Minimum 15-Minute Limit: 5.9" WC					
Month	**Excursion Start Date/Time**	**Excursion End Date/Time**	**Duration (Hours)**	**Duration Above Limit (% of Total Available Hours in the Month)**	**Comments**
January			0.00	100.00%	S-9 offline
February			0.00	100.00%	S-9 offline
March			0.00	100.00%	S-9 offline
April			0.00	100.00%	S-9 offline
May			0.00	100.00%	S-9 offline
June			0.00	100.00%	S-9 offline
July			0.00	100.00%	S-9 offline
August			0.00	100.00%	S-9 offline
September			0.00	100.00%	S-9 offline
October			0.00	100.00%	No exceedances
November			0.00	100.00%	No exceedances
December			0.00	100.00%	No exceedances
				Total exceedances (Hours):	0.00
				Total Above Limit Hours (% of Total Available Hours):	100.00%

Furnace No. 2 (S-10) Wet Scrubber Minimum Pressure Drop, Minimum 15-Minute Limit: 4.7" WC					
Month	**Excursion Start Date/Time**	**Excursion End Date/Time**	**Duration (Hours)**	**Duration Above Limit (% of Total Available Hours in the Month)**	**Comments**
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%	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, 2020 through December 31, 2020

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

Furnace No. 2 (S-10) Oxygen, Maximum Hour Limit: 10%					
Month	**Excursion Start Date/Time**	**Excursion End Date/Time**	**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			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%	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, 2020 through December 31, 2020

Furnace No. 1 (S-9) Opacity, Maximum Limit: 20%					
Month	**Exceedance Start Date/Time**	**Exceedance End Date/Time**	**Duration (Hours)**	**Duration Below Limit (% of Total Available Hours in the Month)**	**Comments**
January			0.00	100.00%	S-9 offline
February			0.00	100.00%	S-9 offline
March			0.00	100.00%	S-9 offline
April			0.00	100.00%	S-9 offline
May			0.00	100.00%	S-9 offline
June			0.00	100.00%	S-9 offline
July			0.00	100.00%	S-9 offline
August			0.00	100.00%	S-9 offline
September			0.00	100.00%	S-9 offline
October			0.00	100.00%	No excursions
November			0.00	100.00%	No excursions
December			0.00	100.00%	No excursions
				Total Excursions (Hours):	0.00
				Total Above Limit Hours (% of Total Available Hours):	100.000%

Furnace No. 2 (S-10) Opacity, Maximum Limit: 20%					
Month	**Exceedance Start Date/Time**	**Exceedance End Date/Time**	**Duration (Hours)**	**Duration Below Limit (% of Total Available Hours in the Month)**	**Comments**
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%	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, 2020 through December 31, 2020

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%	S-9 offline
February				0.00	100.00%	S-9 offline
March				0.00	100.00%	S-9 offline
April				0.00	100.00%	S-9 offline
May				0.00	100.00%	S-9 offline
June				0.00	100.00%	S-9 offline
July				0.00	100.00%	S-9 offline
August				0.00	100.00%	S-9 offline
September				0.00	100.00%	S-9 offline
October				0.00	100.00%	No excursions
November	11/14/20 07:00	11/14/20 08:00	6	1.00	99.99%	change in sludge feed, sludge feed stabilized
December	12/16/20 11:00	12/16/20 12:00	6	1.00	99.99%	change in sludge feed, sludge feed stabilized
				Total Excursions (Hours):		2
				Total Above Limit Hours (% of Total Available Hours):		99.998%

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				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	07/14/20 12:00	07/14/20 13:00	6	1.00	99.99%	change in sludge feed, sludge feed stabilized
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%	S-10 offline
December				0.00	100.00%	S-10 offline
				Total Excursions (Hours):		1
				Total Above Limit Hours (% of Total Available Hours):		99.999%

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, 2020 through December 31, 2020

Month	Gasoline Meter Readings (gallons)	Rolling 12-month Total (gallons)	Quarterly Total (gallons)	12-month Total (gallons)
January	108	523	25	436
February	110	524		
March	111	526		
April	112	457	39	
May	115	432		
June	150	204		
July	212	234	207	
August	284	296		
September	357	359		
October	405	365	165	
November	521	474		
December	522	436		

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_2 Concentration Summary

January 1, 2020 through December 31, 2020

SO_2 Concentration from Landfill Gas Combustion					
Month	**HHV (BTU/scf)**	**H_2S Concentration (ppm)**	**Quarterly Average HHV (BTU/scf)**	**Quarterly Max H_2S Concentration (ppm)**	**Max SO_2 Discharge from LFG Combustion in Boilers and MHFs @ 0% O_2 (ppm)**
January	525	77.0	537	77.0	15.2
February	541	61.0			
March	544	49.0			
April	536	51.0	536	51.0	10.1
May	539	42.0			
June	532	46.0			
July	534	49.0	538	49.0	9.7
August	540	42.0			
September	540	39.0			
October	530	44.0	524	55.0	11.1
November	527	55.0			
December	514	48.0			

F-factor for LFG (scf exhaust / BTU): 0.00943 *Limit: 300 ppm*

SO_2 Concentration from Natural Gas Combustion			
Quarter	**Most Recent Total Sulfur Maximum (gr/100 scf)**	**Average Weekly Heating Value (J15) (BTU)**	**Max SO_2 Discharge from NG Combustion in Boilers, MHFs, and Cogen @ 0% O_2 (ppm)**
First	0.30	1,043	0.58
Second	0.29	1,040	0.56
Third	0.28	1,037	0.55
Fourth	0.31	1,044	0.60

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, 2020 through December 31, 2020

Landfill Gas System at Central San		
Quarter	**Date of Leak Check**	**No. of Leaks >1000 ppm Detected and Repaired**
First	03/11/20	0
Second	05/20/20	0
Third	09/01/20	1
Fourth	11/18/20	0

Landfill Gas Delivery System Operated by Acme Landfill		
Quarter	**Date of Leak Check**	**No. of Leaks >1000 ppm Detected and Repaired**
First	03/26/20	0
Second	06/24/20	0
Third	09/24/20	0
Fourth	12/30/20	0

Certificate Of Completion

Envelope Id: F04584F9010B48258CC325554DA12B06
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Subject: Please DocuSign: 2020 Title V Annual, Semi-Annual and 4th Quarter Report Complete.pdf
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Signatures: 2
Envelope Originator:
Certificate Pages: 6
Initials: 6
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Time Zone: (UTC-08:00) Pacific Time (US & Canada)
hfryman@centralsan.org
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Record Tracking

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Location: DocuSign

Signer Events	Signature	Timestamp
Rita Cheng rcheng@centralsan.org Associate Engineer CCCSD Security Level: Email, Account Authentication (None)	 Signature Adoption: Uploaded Signature Image Using IP Address: 66.234.212.170	Sent: 1/27/2021 10:10:49 AM Viewed: 1/27/2021 10:12:03 AM Signed: 1/27/2021 10:12:39 AM
Electronic Record and Signature Disclosure: Accepted: 6/5/2018 4:37:55 PM ID: a91dc6ad-104d-4317-9658-d64ed7368b87		
Randy Schmidt rschmidt@centralsan.org Senior Engineer Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 24.7.7.14	Sent: 1/27/2021 10:12:46 AM Viewed: 1/27/2021 10:14:09 AM Signed: 1/27/2021 10:14:32 AM
Electronic Record and Signature Disclosure: Accepted: 1/27/2021 10:14:09 AM ID: d429adf4-f2ae-4195-aff8-288cd8c7bf90		
Lori Schectel lschectel@centralsan.org Envtl&Reg Compliance Div Manager Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 73.170.6.129	Sent: 1/27/2021 10:14:35 AM Viewed: 1/27/2021 10:34:22 AM Signed: 1/27/2021 10:35:29 AM
Electronic Record and Signature Disclosure: Accepted: 1/27/2021 10:34:22 AM ID: 791a5e37-afed-4e3d-a8e8-b9b436b1d7d6		
Alan Weer aweer@centralsan.org Plant Ops. Div. Manager Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 12.86.194.210	Sent: 1/27/2021 10:35:32 AM Viewed: 1/28/2021 2:46:31 PM Signed: 1/28/2021 2:46:36 PM
Electronic Record and Signature Disclosure:		

Signer Events	Signature	Timestamp
Accepted: 1/28/2021 2:46:31 PM ID: 93888227-4a45-487b-b2f7-5092ea51568e		
Jean-Marc Petit jmpetit@centralsan.org Director of Engineering Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 12.86.194.210 Signed using mobile	Sent: 1/28/2021 2:46:41 PM Viewed: 1/28/2021 3:14:25 PM Signed: 1/28/2021 3:14:50 PM
Electronic Record and Signature Disclosure: Accepted: 9/11/2018 8:30:53 AM ID: adaf246f-509c-4373-9b01-fb59f68973bd		
Steve McDonald smcdonald@centralsan.org Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 12.86.194.210	Sent: 1/28/2021 3:14:55 PM Viewed: 1/29/2021 1:31:55 PM Signed: 1/29/2021 1:32:18 PM
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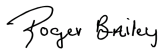
Roger Bailey rbailey@centralsan.org General Manager Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 12.86.194.210	Sent: 1/29/2021 1:32:23 PM Resent: 1/29/2021 1:41:15 PM Viewed: 1/29/2021 2:39:03 PM Signed: 1/29/2021 2:39:11 PM
Electronic Record and Signature Disclosure: Accepted: 9/28/2018 3:04:44 PM ID: c9fb6117-1432-4032-9f2b-0360fb9ea323		

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Editor Delivery Events	Status	Timestamp

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Envelope Summary Events	Status	Timestamps

Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	1/27/2021 10:10:49 AM
Certified Delivered	Security Checked	1/29/2021 2:39:03 PM
Signing Complete	Security Checked	1/29/2021 2:39:11 PM
Completed	Security Checked	1/29/2021 2:39:11 PM

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PDF Reader:	Acrobat® or similar software may be required to view and print PDF files

Screen Resolution:	800 x 600 minimum
Enabled Security Settings:	Allow per session cookies

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