



TV Tracking #: 953 (Semi-Annual)

1. RECEIVED IN
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CENTRAL CONTRA COSTA SANITARY DISTRICT

5019 IMHOFF PLACE, MARTINEZ, CA 94553-4392

PHONE: (925) 228-9500
www.centernalsan.org

July 29, 2024

ROGER S. BAILEY
General Manager

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

KATIE YOUNG
Secretary of the District, CMC

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

SUBJECT: TITLE V SEMI-ANNUAL JANUARY THROUGH JUNE 2024 AND
TITLE V SECOND QUARTER 2024 COMBINED REPORT

Dear Mr. Gove:

Central Contra Costa Sanitary District (Plant No. A0907) operates its wastewater treatment facility under a Title V Major Facility Review Permit and a Bay Area Air Quality Management District Permit-to-Operate. The attached Title V Semi-Annual January through June 2024 and Title V Second Quarter 2024 Combined Report discusses the compliance performance of Central Contra Costa Sanitary District's permitted sources. It complies with the reporting requirements in the Title V Major Facility Review Permit and Bay Area Air Quality Management District Regulation 2, Rule 6 requirements.

If you have any questions concerning the information in this combined report, please contact Environmental and Regulatory Compliance Division Manager Lori Schectel at 925-229-7143 or lschectel@centernalsan.org.

Sincerely,

Alan Weer

Alan R. Weer, P.E.
Plant Operations Division Manager

Enclosures

ecc: Andrea Academia, Senior Air Quality Inspector, BAAQMD – aacademia@baaqmd.gov
Raymond Salalila, Air Quality Specialist, BAAQMD – rsalalila@baaqmd.gov
Rita Cheng, Senior Engineer, Central San – rcheng@centernalsan.org
Lori Schectel, Environmental and Regulatory Compliance Division Manager,
Central San – lschectel@centernalsan.org

**TITLE V SEMI-ANNUAL
JANUARY THROUGH JUNE 2024
AND
TITLE V SECOND QUARTER 2024
COMBINED REPORT**

January 1, 2024 through June 30, 2024

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



Contents

CONTENTS	1
1 INTRODUCTION	2
1.1 Purpose	2
1.2 Recordkeeping and Reporting	2
2 TITLE V COMPLIANCE ACTIVITIES	3
2.1 Auxiliary Boilers No. 1 and No. 2 (S-7 and S-8)	3
2.2 Furnaces No. 1 and No. 2 (S-9 and S-10)	3
2.3 Gasoline Dispensing Facility (S-25)	5
2.4 Preliminary Treatment (S-110, A-23, and A-24)	5
2.5 Ash Conveying System (S-182, A-186, A-191, A-192, and A-196)	5
2.6 Cogeneration (S-188)	5
2.7 Sludge Loading Facility (S-197)	6
3 SECOND QUARTER 2024 REPORTING REQUIREMENTS	7
3.1 Sulfur Dioxide Concentration from Landfill Gas Combustion	7
3.2 Sulfur Dioxide Concentration from Natural Gas Combustion	7
3.3 Total Organic Carbon Leaks – Landfill Gas System	7

APPENDIX A – Semi-Annual Monitoring Verification Report

APPENDIX B – Auxiliary Boiler Three-Clock Hour First Pass Temperature Monitoring Summary

APPENDIX C – Furnaces Wet Scrubber Minimum Pressure Drop Monitoring Summary

APPENDIX D – Furnaces Oxygen Monitoring Summary

APPENDIX E – Furnaces Opacity Monitoring Summary

APPENDIX F – Sludge Volatile Content Monitoring Summary

APPENDIX G – Furnaces Hearth Temperature Monitoring Summary

APPENDIX H – Gasoline Dispensing Facility Gasoline Meter Readings Summary

APPENDIX I – Preliminary Treatment Hydrogen Sulfide Monitoring Summary

APPENDIX J – Cogeneration Carbon Monoxide Monitoring Summary

APPENDIX K – Sulfur Dioxide Concentration Summary from Landfill Gas and Natural Gas Combustion

APPENDIX L – Total Organic Carbon Leak Checks Summary – Landfill Gas System

1 Introduction

1.1 Purpose

This document is a Title V Semi-Annual and Second Quarter Combined Report for the Central Contra Costa Sanitary District (Central San). This report covers the Title V compliance activities for the semi-annual period of January 1, 2024 through June 30, 2024, as well as the second quarter reporting requirements for April 1, 2024 through June 30, 2024.

Central San, Facility No. A0907, was issued a Major Facility Review Permit on January 28, 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 with a minor revision to the Title V permit issued on June 29, 2019. On August 28, 2019, Central San submitted its Major Facility Review Permit Renewal Application to the Bay Area Air Quality Management District (BAAQMD), which is awaiting processing. This semi-annual report is submitted to comply with the requirements of BAAQMD, Regulation 2, Rule 6 and Title V of the Clean Air Act.

Section 2 of this report contains Title V compliance activities for the auxiliary boilers, furnaces, gasoline dispensing facility, preliminary treatment, ash conveying system, cogeneration, and additional Title V activities.

Section 3 contains the quarterly reporting requirements of sulfur content of landfill gas (LFG) used in auxiliary boilers (S-7 and S-8), total organic carbon leak testing for the LFG system, and sulfur dioxide (SO₂) 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 Central San's internal network storage. 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, 2024, through June 30, 2024.

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. Neither boiler operated on fuel oil during the reporting period. The NG and LFG flow meters were operable, and the hourly data were collected and electronically archived. Neither boiler exceeded the 28 million British Thermal Unit (MMBTU)/Hour permit requirement for the reporting period.

When combusting 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 B). The next annual tune-up, insulation check, exhaust temperatures check, and emissions source test are tentatively scheduled for Fall 2024.

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

Furnace No. 2 (S-10) began operation on January 9, 2024, and Furnace No. 1 (S-9) operated until January 12, 2024. During the current reporting period, solid fuel throughput to 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 limit of 20,000 dry tons/365 days. Neither S-9 nor S-10 exceeded the hourly auxiliary fuel limit of 27 MMBTU/hour.

The temperature of Hearth No. 1 was above 1,000°F 100 percent of the time when S-9 or S-10 was firing on LFG. The wet scrubber pressure drop for S-9 and S-10 were above the minimum of 5.9 inches and 4.7 inches water column, respectively, 100 percent of the time during the reporting period (Appendix C).

The one-hour Hearth No. 2 oxygen (O₂) levels for S-9 and S-10 were below the 10 percent O₂ reporting limit for 100 percent and 99.93 percent, respectively, during the reporting period (Appendix D). The opacity for S-9 and S-10 was below 20 percent for a period or periods aggregating more than three minutes in any hour for 100 percent of the time during the reporting period (Appendix E).

Sludge cake solids content is measured during all three work shifts each day. The volatile fraction of the cake solids is measured daily, and the volatile content varies slightly from day to day. The volatile solids content levels were below the 95 percent reporting limit 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 and S-10 were above their minimum limits for 99.998 percent and 100 percent, respectively, of the reporting period. See Appendix G for a summary of hearth temperature exceedances.

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

There were no inoperative monitor incidents during the reporting period for the following parametric monitors:

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

From January 31, 2024 to February 1, 2024, Montrose Air Quality Services, LLC conducted annual emissions testing on S-10 on behalf of Central San (NST-8967) for SO₂, non-methane organic carbon, and pollutants regulated under Clean Air Act Section 129 (129) Sewage Sludge Incinerator (SSI) regulations. Emission results were below their respective limits and were submitted electronically to BAAQMD and the United States Environmental Protection Agency on March 19, 2024.

Effective March 21, 2016, Section 129 of the Clean Air Act (SSI Regulations) restricts the use of the furnace exhaust bypass damper while sewage sludge is in the combustion chamber (until the end of SSI residence time). Exercising the bypass damper during sewage sludge combustion is a Section 129 deviation because the unabated emissions from the bypass stack may exceed one or more of the 129 emission limits in Title 40 CFR, Subpart LLL, Section 62.15955. There were no bypass events in the reporting period.

The following sections summarize the Reportable Compliance Activities that were submitted to BAAQMD during the reporting period:

June 14, 2024, Furnace No. 2 Opacity Inoperative Monitor

On June 14, 2024, Central San submitted RCA 200438 to report the inoperative opacity meter on S-10. During a routine quarterly audit on June 14, 2024, Air Science Technologies, Inc. completed the first low filter run and started the second run but stopped the audit due to major differences in the readings. While troubleshooting on June 25, 2024, it was discovered that Central San's opacity filters are defective. The opacity monitor was successfully audited on June 25, 2024, using a different set of opacity filters. The monitor was inoperative from June 15, 2024, at 09:50 to June 25, 2024, at 17:29. The opacity meter resumed normal operation at 17:30 on June 25, 2024.

2.3 Gasoline Dispensing Facility (S-25)

S-25 passed the annual static pressure integrity test (ST-38) and the annual vapor recovery inspection on May 20, 2024. TEC Accutite conducted the ST-38 testing and noted no issues during the annual test. Fuel throughput for S-25 is recorded monthly. The gasoline dispensed for the past 12 months was approximately 409 gallons (Appendix H). This is considerably less than the limit of 400,000 gallons in any consecutive 12-month period.

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

At all times malodorous compounds were present at the preliminary treatment (S-110) and emissions were abated by odor control scrubbers A-23 or A-24.

Central San is required to ensure that hydrogen sulfide (H₂S) concentration in the stacks of A-23 and A-24 do not exceed 10.0 parts per million (ppm) by using a BAAQMD-approved device every calendar quarter. Quarterly H₂S monitoring results were below the H₂S limit and are summarized in Appendix I.

2.5 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.

2.6 Cogeneration (S-188)

Cogeneration (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. All span and zero calibrations for the nitrogen oxides (NO_x) continuous emissions monitor system were within their respective limits when the continuous emissions monitor system was in operation. NO_x emissions from S-188 did not exceed the following maximum limits:

- Three-clock hour average of 42 parts per million volumetric dry (ppmvd) at 15 percent O₂
- Clock-hour average of 167 ppmvd at 15 percent O₂
- 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

On March 18, 2024, Montrose Air Quality Services, LLC conducted a compliance source test (NST-9104) to demonstrate annual compliance with the carbon monoxide (CO) limits and results were submitted electronically to BAAQMD on April 15, 2024. The measured CO emissions demonstrated compliance with the following CO limits:

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

In March 2021, Central San replaced the CO catalyst element in-kind and conducted source testing for formaldehyde (per Permit-to-Operate Condition 21485, Part 9c) and CO (Notice of Source Test-6415). Central San returned to monthly CO monitoring per Permit-to-Operate Condition 21485, Part 9b, for 13 months, including the month of catalyst installation. CO monitoring continued on a quarterly basis thereafter since the estimated CO mass emissions were below 118 pounds/day on each monitoring day during the monthly monitoring. If CO emissions are estimated at more than 118 pounds/day on any day after starting quarterly monitoring, Central San must perform monitoring on a monthly basis until emissions are less than 118 pounds/day for three consecutive months. The estimated CO mass emissions were below 118 pounds/day on each monitoring day in the reporting period (Appendix J).

2.7 Sludge Loading Facility (S-197)

S-197 is a Sludge Loading Facility designed for operation if S-9 and S-10 are not available. It is an enclosed building with appropriate odor control (A-199) and is allowed 500 run hours annually for maintenance and testing. Operational hours include centrifuge to hopper loading, hopper storage, and hopper-to-truck loading. During the reporting period, S-197 was operated for 101.8 hours for testing and 0.0 hours while the furnaces were unavailable. Emissions were in compliance with the respective limits for H₂S and organic compounds.

3 Second Quarter 2024 Reporting Requirements

The following sections satisfy the second quarter reporting requirements pursuant to Permit-to-Operate Condition 21422, Part 2, Condition 21485, Part 8, BAAQMD 8-39-503, and BAAQMD 8-34-503.

3.1 Sulfur Dioxide Concentration from Landfill Gas Combustion

The maximum LFG H₂S concentration was 44 parts per million by volume (during the second quarter period). Based on this H₂S concentration, the estimated maximum exhaust gas SO₂ concentration from the auxiliary boilers and furnaces was 8.7 ppmvd. This concentration is significantly lower than the permit limit of 300 ppmvd. Quarterly SO₂ concentration readings from LFG combustion are included in Appendix K.

3.2 Sulfur Dioxide Concentration from Natural Gas Combustion

The maximum SO₂ emissions from the combustion of NG are based on the maximum total sulfur content of 0.24 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 second quarter of 2024.

While combusting NG, the maximum SO₂ concentration in the stack gas from the auxiliary boilers, furnaces, and cogeneration during the reporting period was 0.44 ppmvd SO₂, which is well below the permit limit of 300 ppmvd SO₂. Quarterly SO₂ concentration readings from NG combustion are included in Appendix K.

3.3 Total Organic Carbon Leaks – Landfill Gas System

The LFG piping from the landfill to Central San’s point of delivery was tested for leaks on June 27, 2024. There were no leaks in excess of the 1,000 parts per million by volume as methane limit in BAAQMD Regulation 8, Rule 34.

The LFG piping from Central San’s point of delivery to the permitted sources was tested for leaking components on May 23, 2024. There were no leaks in excess of the 1,000 parts per million by volume as methane limit in BAAQMD Regulation 8, Rule 34.

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

I certify the following:

This completes the Title V reporting requirements for the semi-annual period of January 1, 2024, through June 30, 2024, as well as the second quarter period of April 1, 2024, through June 30, 2024. To the best of my knowledge, the information contained herein is true and accurate.

Alan Weer

7/26/2024

Alan M. Weer, P.E.

Date

Plant Operations Division Manager

Appendix A
Title V Semi-Annual Monitoring Verification Report

Date: July 29, 2024

Period: 1/1/2024-6/30/2024

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.....	44
S-195 EMERGENCY STANDBY DIESEL GENERATOR #1.....	47
S-196 EMERGENCY STANDBY DIESEL GENERATOR #3.....	48

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	10/11/23 NST-8659	
	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	10/11/23 NST-8659
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	10/11/23 NST-8659
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	10/11/23 NST-8659
	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	10/11/23 NST-8659
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	10/11/23 NST-8659

Source #: S-7		Source Name: Auxiliary Boiler #1							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Carbon Monoxide	SIP 9-7-302.2 (Non-Gaseous Fuels)	Y		400 ppmvd @ 3% O 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	10/11/23 NST-8659
	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	10/11/23 NST-8659
Sulfur Dioxide	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	

Source #: S-7		Source Name: Auxiliary Boiler #1							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	BAAQMD 9-1-302	Y		300 ppmvd	BAAQMD Condition #21422, Part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X	Appendix K
	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 K
	BAAQMD Condition #21422, Part 3	Y		300 ppmvd	BAAQMD Condition #21422, Part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X	Appendix K
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 B
	BAAQMD 8-34-301.2	N		Max Leakage: 1000 ppmvd (as CH ₄)	BAAQMD 8-34-503	P/Q	Leak Testing	X	Appendix L

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 B
	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	10/11/23 NST-8659
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 L
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 B

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

S-8 AUXILIARY BOILER #2

Source #: S-8		Source Name: Auxiliary Boiler #2								
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance		
								Y	N	
Oxides of Nitrogen	SIP 9-7-301.1 (Gaseous Fuels)	Y		30 ppmvd @ 3% O ₂	BAAQMD Condition #21422, Part 7	P/once every 60 months	Source Test	X		10/12/23 NST-8660
	SIP 9-7-302.1 (Non-Gaseous Fuels)	Y		40 ppmvd @ 3% O 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	10/12/23 NST-8660
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	10/12/23 NST-8660
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	10/12/23 NST-8660
	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	10/12/23 NST-8660
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	10/12/23 NST-8660

Source #: S-8		Source Name: Auxiliary Boiler #2							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Carbon Monoxide	SIP 9-7-302.2 (Non-Gaseous Fuels)	Y		400 ppmvd @ 3% O 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	10/12/23 NST-8660
	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	10/12/23 NST-8660
Sulfur Dioxide	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		X	

Source #: S-8		Source Name: Auxiliary Boiler #2								
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance		
								Y	N	
	BAAQMD 9-1-302	Y		300 ppmvd	BAAQMD Condition #21422, Part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X	Appendix K	
	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 K	
	BAAQMD Condition #21422, Part 3	Y		300 ppmvd	BAAQMD Condition #21422, Part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X	Appendix K	
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 B	
	BAAQMD 8-34-301.2	N		Max Leakage: 1000 ppmvd (as CH ₄)	BAAQMD 8-34-503	P/Q	Leak Testing	X	Appendix L	

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 B
	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	10/12/23 NST-8660
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 L
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 B

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

S-9 MULTIPLE HEARTH FURNACE #1

Source #: S-9							Source Name: Multiple Hearth Furnace #1			
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance		
								Y	N	
Sulfur Dioxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O ₂	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X		
	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	2/7/23-2/9/23 NST-8030	

Source #: S-9		Source Name: Multiple Hearth Furnace #1							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Oxides of Nitrogen	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		220 ppmvd @ 7% O ₂	40 CFR 62, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
	SIP 6-301	Y		Ringelmann No. 1		N		X	
Opacity	BAAQMD 6-1-302	N		20% opacity for no more than 3 minutes in any hour	BAAQMD 6-1-501	C	Continuous Opacity Monitor	X	Appendix E
	SIP 6-302	Y		20% opacity for no more than 3 minutes in any hour	BAAQMD 6-501	C	Continuous Opacity Monitor	X	Appendix E
	40 CFR 60.152(a)(2)	Y		20% opacity	BAAQMD 6-1-501	C	Continuous Opacity Monitor	X	Appendix E
	BAAQMD Condition #21423, Part 5	Y		20% opacity or greater	BAAQMD Condition #21423, Part 5	C	Continuous Opacity Monitor	X	Appendix E
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	2/7/23-2/9/23 NST-8030

Source #: S-9		Source Name: Multiple Hearth Furnace #1							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	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	2/7/23-2/9/23 NST-8030
	BAAQMD 6-1-311.2	N		5.44 kg/hr, per Table 6-1-311.2: Process Weight Rate vs. Allowable TSP Emission Limits (effective July 1, 2020)	BAAQMD Condition #21423, Part 10	P/once every 2 years	Source Test	X	2/7/23-2/9/23 NST-8030
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	2/7/23-2/9/23 NST-8030
Filterable Particulate	40 CFR 60.152(a)(1), BAAQMD Condition #21423, Part 3	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(a)(1) and BAAQMD Condition #21423, Part 13a	C	Sludge Flow Meter	X	
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge (pressure drop shall not drop below individual furnace scrubber pressure set points for > 15 min in any hour)	40 CFR 60.153(b)(1), BAAQMD Condition #21423, Parts 13b and 14a	C	Wet Scrubber Pressure Drop Meter	X	Appendix C

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 D
	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	
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	2/7/23-2/9/23 NST-8030

Source #: S-9		Source Name: Multiple Hearth Furnace #1							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		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
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

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
	BAAQMD Condition #21423, Part 4	Y		343 mg particulate/dscm (0.15 gr/dscf) of exhaust gas volume	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
Non-Methane Organic Compounds	BAAQMD Condition #21423, Part 12	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O 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 L
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
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	2/7/23-2/9/23 NST-8030

Source #: S-9		Source Name: Multiple Hearth Furnace #1							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
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	2/7/23-2/9/23 NST-8030
	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
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	2/7/23-2/9/23 NST-8030
Dioxins/ Furans	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		5.0 ng/dscm (total mass basis); or 0.32 ng/dscm (toxic equivalency basis) @ 7% O ₂	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030

Source #: S-9		Source Name: Multiple Hearth Furnace #1							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Hydrogen Sulfide	BAAQMD 9-2-301	N		24-Hour Standard: GLC not to exceed 0.06 ppm average over 3 min and 0.03 ppm average over 60 min		N		X	
Lead	BAAQMD 11-1-301, BAAQMD Condition #21423, Part 9	Y		15 lb/day	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
	BAAQMD 11-1-302	Y		Max GLC (w/o background): 1.0 microgram/cu m (24-hour average)		N		X	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.30 mg/dscm @ 7% O ₂	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
Be	BAAQMD 11-3-301, BAAQMD Condition #21423, Part 6	N		10 g/24 hr	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030

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 Part 61.32	Y		10 g/24 hr	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
Mercury	BAAQMD 11-5-302, Condition #21423, Part 7	N		3200 g/24 hr	BAAQMD Condition #21423, Parts 7, 8, and 10	P/once every 60 months	Source Test	X	2/7/23-2/9/23 NST-8030
	40 CFR Part 61.52 (b)	Y		3.2 kg/24 hr	40 CFR Part 61.53	P/A	Sludge Analysis	X	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.28 mg/dscm @ 7% O ₂	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030
Cadmium	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.095 mg/dscm @ 7% O ₂	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	2/7/23-2/9/23 NST-8030

Source Name: Multiple Hearth Furnace #1										
Source #: S-9	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
	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	
	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

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
Fugitive Emissions from Ash Handling	40 CFR 62, Subpart LLL, Section 15960(d); Table 3	Y		5% of the hourly observation period	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Visible Emission Test	X	2/7/23-2/8/23 Completed during annual 129 compliance demonstration source test
Hearth 1 Temperature	40 CFR 62, Subpart LLL, Section 15960(a); Table 3	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Hearth 1 Temperature Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit
Pressure Drop	40 CFR 62, Subpart LLL, Section 15960(b); Table 3	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Wet Scrubber Pressure Drop Meter	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit

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

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

S-10 MULTIPLE HEARTH FURNACE #2

Source #: S-10		Source Name: Multiple Hearth Furnace #2							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Sulfur Dioxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O ₂	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X	1/30/24-2/1/24 NST-8967
	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	1/30/24-2/1/24 NST-8967

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	1/30/24-2/1/24 NST-8967
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 E RCA 200438
	SIP 6-302	Y		20% opacity for no more than 3 minutes in any hour	BAAQMD 6-501	C	Continuous Opacity Monitor	X	Appendix E RCA 200438
	40 CFR 60.152(a)(2)	Y		20% opacity	BAAQMD 6-1-501	C	Continuous Opacity Monitor	X	Appendix E RCA 200438
	BAAQMD Condition #21423, Part 5	Y		20% opacity or greater	BAAQMD Condition #21423, Part 5	C	Continuous Opacity Monitor	X	Appendix E RCA 200438

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	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	1/30/24-2/1/24 NST-8967
	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	1/30/24-2/1/24 NST-8967
	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	1/30/24-2/1/24 NST-8967
	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	1/30/24-2/1/24 NST-8967
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	1/30/24-2/1/24 NST-8967
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 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 C
	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 D
	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 Name: Multiple Hearth Furnace #2											
Source #:	S-10	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	1/30/24-2/1/24 NST-8967
			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 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	1/30/24-2/1/24 NST-8967
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 L
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 #:		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	1/30/24-2/1/24 NST-8967		
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	1/30/24-2/1/24 NST-8967		
	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 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	1/30/24-2/1/24 NST-8967
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	1/30/24-2/1/24 NST-8967
Hydrogen Sulfide	BAAQMD 9-2-301	N		24-Hour Standard: GLC not to exceed 0.06 ppm average over 3 min and 0.03 ppm average over 60 min		N		X	
Lead	BAAQMD 11-1-301, BAAQMD Condition #21423, Part 9	Y		15 lb/day	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	1/30/24-2/1/24 NST-8967
	BAAQMD 11-1-302	Y		Max GLC (w/o background): 1.0 microgram/cu m (24-hour average)		N		X	

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	1/30/24-2/1/24 NST-8967
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	1/30/24-2/1/24 NST-8967
	40 CFR Part 61.32	Y		10 g/24 hr	BAAQMD Condition #21423, Part 10	P/once every 60 months	Source Test	X	1/30/24-2/1/24 NST-8967
Mercury	BAAQMD 11-5-302, Condition #21423, Part 7	N		3200 g/24 hr	BAAQMD Condition #21423, Parts 7, 8, and 10	P/once every 60 months	Source Test	X	1/30/24-2/1/24 NST-8967
	40 CFR Part 61.52 (b)	Y		3.2 kg/24 hr	40 CFR Part 61.53	P/A	Sludge Analysis	X	

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	1/30/24-2/1/24 NST-8967
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	1/30/24-2/1/24 NST-8967
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 #:		Source Name: Multiple Hearth Furnace #2									
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance			
								Y	N		
Hearth 1 Minimum Temperature	Permit Condition #21423, Part 12	Y		1,000 degrees F, rolling 3 clock-hour average	Permit Condition #21423, Part 13d	C	Hearth 1 Temperature Monitor	X	Appendix G		
Fugitive Emissions from Ash Handling	40 CFR 62, Subpart LLL, Section 15960(d); Table 3	Y		5% of the hourly observation period	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Visible Emission Test	X	1/30/24-2/1/24 NST-8967		
Hearth 1 Temperature	40 CFR 62, Subpart LLL, Section 15960(d); Table 4	Y		Awaiting response from USEPA Region 9 on site-specific parametric limit	40 CFR 62, Subpart LLL, Table 4	C	Hearth 1 Temperature Monitor	NA	Awaiting response from USEPA Region 9 on site-specific parametric limit		

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

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 average over 3 min and 0.03 ppm average over 60 min		N		X	
Hydrogen Sulfide	BAAQMD Condition #1716, Part 1	N		1.5 ppmvd		N		X	

S-25 GASOLINE DISPENSING FACILITY

Source #: S-25				Source Name: Gasoline Dispensing Facility							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance			
Gasoline Throughput	Condition #7523, Part 1	N		400,000 gallons in any consecutive 12-month period	Condition #7523 Part 2	P/M	Records	Y	X	N	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			
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		Y	X	N	
	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			
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/ Alarm	Y	X	N	

Source Name: 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
	SIP 6-301	Y		Ringelmann No. 1	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/Alarm	X	
	BAAQMD 6-1-301	N		Ringelmann No. 1	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X	
	SIP 6-301	Y		Ringelmann No. 1	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/Alarm	X	
	SIP 6-310	Y		0.15 grains/dscf	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/Alarm	X	
	BAAQMD 6-1-310	N		0.15 grains/dscf	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X	

Source #: S-182							Source Name: Ash Conveying System				
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance			
								Y	N		
	SIP 6-310	Y		0.15 grains/dscf	BAAQMD Condition #21425, Part 5	P/D	Operator Visual Stack Inspection	X			
	BAAQMD 6-1-311	N		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/Alarm	X			
	SIP 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, Part 4	C	Mikro-Charge Leak Gauge Particulate Monitor/Alarm	X			
	BAAQMD 6-1-311	N		$4.10P^{0.67}$ 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	1/30/24		

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 Name: Natural Gas Fired Turbine Generator with HRSG										
Source #: S-188	Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
									Y	N
	Carbon Monoxide	BAAQMD Condition #21485, Part 6	Y		157 lb/24 hour	BAAQMD Condition #21485, Part 9a	P/A	Source Test	X	3/18/24 NST-9104
		BAAQMD Condition #21485, Part 7	Y		26.376 tons/rolling 365-day period	BAAQMD Condition #21485, Part 9a	P/A	Source Test	X	3/18/24 NST-9104
		BAAQMD Condition #21485, Part 9b	N		118 lb/24 hour	BAAQMD Condition #21485, Part 9b	P/Q&M	Portable Analyzer	X	
	Sulfur Dioxide	BAAQMD 9-1-301	Y		GLC 0.5 ppm (3 min average) 0.25 ppm (60 min average) 0.05 ppm (24-hour average)		N		X	
	Sulfur Dioxide	BAAQMD 9-1-302	N		300 ppmvd		N		X	
		NSPS Subpart GG, 60.333(b)	Y				N		X	
	Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
		SIP 6-301	Y		Ringelmann No. 1		N		X	

Source #: S-188		Source Name: Natural Gas Fired Turbine Generator with HRSG							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Filterable Particulate	BAAQMD 6-1-310.3	N		0.15 grains/dscf @ 6% O 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		≤ 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, Parts 3 and 4	P/E	Meter, Records	X	
	ATCM 93155.6(a)(3)(A)(2)	N		Reliability-related activities not to exceed 100 hours in any year	BAAQMD Cond# 22850, Parts 3 and 4	P/E	Meter, Records	X	

S-196 EMERGENCY STANDBY DIESEL GENERATOR #3

Source #: S-196		Source Name: Emergency Standby Diesel Generator #3							
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Y	N
Sulfur Dioxide	BAAQMD 9-1-301	N		GLC 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

Central Contra Costa Sanitary District, Plant No. A0907

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

January 1, 2024 through June 30, 2024

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

Total Exceedances (Hours): 0.00

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

Total Exceedances (Hours): 0.00

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

APPENDIX C

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Wet Scrubber Minimum Pressure Drop Monitoring Summary

January 1, 2024 through June 30, 2024

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%	No exceedances
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

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

Total Exceedances (Hours): 0.00

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

APPENDIX D

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Oxygen Monitoring Summary

January 1, 2024 through June 30, 2024

Furnace No. 1 (S-9) Oxygen, Maximum Hour Limit: 10%					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Below Limit (% of Total Available Hours in the Month)	Comments
January			0.00	100.00%	No exceedances
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

Total Excursions (Hours): 0.00

Total Below 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 Below Limit (% of Total Available Hours in the Month)	Comments
January	01/09/24 12:00	01/09/24 15:00	3.00	99.60%	
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

Total Excursions (Hours): 3.00

Total Below Limit Hours (% of Total Available Hours): 99.93%

APPENDIX E

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Opacity Monitoring Summary

January 1, 2024 through June 30, 2024

Furnace No. 1 (S-9) Opacity, Maximum Limit: 3 minutes in a 60-minute period with Opacity > 20%					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Below Limit (% of Total Available Hours in the Month)	Comments
January			0.00	100.00%	No exceedances
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

Total Exceedances (Hours): 0.00

Total Below Limit Hours (% of Total Available Hours): 100.00%

Furnace No. 2 (S-10) Opacity, Maximum Limit: 3 minutes in a 60-minute period with Opacity > 20%					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Below 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

Total Exceedances (Hours): 0.00

Total Below Limit Hours (% of Total Available Hours): 100.00%

APPENDIX F

Central Contra Costa Sanitary District, Plant No. A0907

Sludge Volatile Content Monitoring Summary

January 1, 2024 through June 30, 2024

Sludge Volatile Content, Maximum Daily Limit: 95%					
Month	Excursion Start Date	Excursion End Date	Duration (Days)	Duration Below Limit (% of Total Available Days in the Month)	Comments
January			0	100.00%	No excursions
February			0	100.00%	No excursions
March			0	100.00%	No excursions
April			0	100.00%	No excursions
May			0	100.00%	No excursions
June			0	100.00%	No excursions

Total Excursions (Days): 0

Total Below Limit Hours (% of Total Available Days): 100.00%

APPENDIX G

Central Contra Costa Sanitary District, Plant No. A0907
 Furnaces Hearth Temperature Monitoring Summary
 January 1, 2024 through June 30, 2024

Furnace No. 1 (S-9) Hearth 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	01/11/24 07:00	01/11/24 08:00	6	1.00	99.98%	
	01/11/24 09:00	01/11/24 10:00	6	1.00		
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
				Total Excursions (Hours): 1.00		
				Total Above Limit Hours (% of Total Available Hours): 99.998%		

Furnace No. 2 (S-10) Hearth 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 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
				Total Excursions (Hours): 0.00		
				Total Above Limit Hours (% of Total Available Hours): 100.000%		

APPENDIX H

Central Contra Costa Sanitary District, Plant No. A0907
Gasoline Dispensing Facility Gasoline Meter Readings Summary
January 1, 2024 through June 30, 2024

Month	Gasoline Meter Readings (gallons)	Quarterly Total (gallons)	12-month Total (gallons)
Start (Jun-23)	2,033.4		
Jul-23	2,097.3		
Aug-23	2,125.5	111	
Sep-23	2,144.3		
Oct-23	2,176.1		
Nov-23	2,179.0	36	
Dec-23	2,180.0		409
Jan-24	2,200.0		
Feb-24	2,226.8	80	
Mar-24	2,260.0		
Apr-24	2,300.0		
May-24	2,338.0	182	
Jun-24	2,442.0		

BAAQMD Consecutive 12-month Maximum Limit: 400,000

APPENDIX I

Central Contra Costa Sanitary District, Plant No. A0907
Preliminary Treatment Hydrogen Sulfide Monitoring Summary
January 1, 2024 through June 30, 2024

Monitoring Date	Quarter	OCU E (A-23) H ₂ S, ppm	OCU W (A-24) H ₂ S, ppm
January 9, 2024	Q1	0.88	0.22
March 4, 2024	Q2	0.40	0.33

Permit Limit: 10.0

APPENDIX J

Central Contra Costa Sanitary District, Plant No. A0907
Cogeneration Carbon Monoxide Monitoring Summary
January 1, 2024 through June 30, 2024

Monitoring Date	Quarter	Cogen NG Flow (kcf/d)	CO Concentration (ppm)	O2 Concentration (%)	CO Mass Emissions (lb/day)
February 13, 2024	Q1	932	16.6	16.7	51.3
May 7, 2024	Q2	980	15.5	16.5	47.6

BAAQMD Monitoring Limit: 118.0
Permit Limit: 157.0

Note:

The CO catalyst on S-188 was replaced in-kind 3/17/2021, S-188 was operational 3/18/2021. Monthly monitoring was conducted for 13 months, including the month of catalyst installation. Per PTO Condition 21485(9b), CO monitoring continued on a quarterly basis thereafter since CO emissions were less than 118 lb/day for 12 consecutive months.

APPENDIX K

Central Contra Costa Sanitary District, Plant No. A0907

SO₂ Concentration Summary from Landfill Gas and Natural Gas Combustion

January 1, 2024 through June 30, 2024

SO ₂ Concentration from Landfill Gas Combustion					
Month	HHV (BTU/scf)	H ₂ S Concentration (ppm) ¹	Quarterly Average HHV (BTU/scf)	Quarterly Max H ₂ S Concentration (ppm)	Max SO ₂ Discharge from LFG Combustion in Boilers and MHFs @ 0% O ₂ (ppm)
January	544	37.0	547	50.0	9.7
February	548	50.0			
March	550	41.0			
April	544	39.0	543	44.0	8.6
May	540	44.0			
June	545	35.0			

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) ²	HHV (J15) (BTU/scf)	Max SO ₂ Discharge from NG Combustion in Boilers, MHFs, and Cogen @ 0% O ₂ (ppm)
First	0.23	1,054	0.41
Second	0.24	1,047	0.44

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

Limit: 300 ppm

Notes:

- 1) Monthly H₂S concentration measurements provided by Field Solutions, Inc.
- 2) Source: https://www.pge.com/pipeline/operations/sulfur/sulfur_info_values/index.page

APPENDIX L

Central Contra Costa Sanitary District, Plant No. A0907

Total Organic Carbon Leak Checks Summary - Landfill Gas System

January 1, 2024 through June 30, 2024

Landfill Gas System at Central San		
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired
First	02/22/24	0
Second	05/23/24	0

Landfill Gas Delivery System Operated by Acme Landfill		
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired
First	04/03/24	0
Second	06/27/24	0

Certificate Of Completion

Envelope Id: 158C39F63C4B4252A2CFA541CCAE9C6C

Status: Completed

Subject: Complete with DocuSign: 2nd Qtr January-June 2024 and Semi-Annual Combined Report.pdf

Source Envelope:

Document Pages: 70

Signatures: 2

Envelope Originator:

Certificate Pages: 5

Initials: 6

Heather Fryman

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5019 Imhoff Placed

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Martinez, CA 94553-4392

Time Zone: (UTC-08:00) Pacific Time (US & Canada)

hfryman@centralsan.org

IP Address: 73.15.72.118

Record Tracking

Status: Original

Holder: Heather Fryman

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7/24/2024 8:11:12 AM

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Nealsen Cayanan

NCayanan@centralsan.org

Temp Staff Engineer

Security Level: Email, Account Authentication
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Signature Adoption: Pre-selected Style

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Electronic Record and Signature Disclosure:

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ID: ece423a4-a064-4e72-9e41-7897af52494b

Robert Hess

rhess@centralsan.org

Assistant Engineer

Security Level: Email, Account Authentication
(None)

Signature Adoption: Pre-selected Style

Using IP Address: 12.86.194.210

Sent: 7/24/2024 11:09:11 AM

Viewed: 7/24/2024 11:10:02 AM

Signed: 7/25/2024 7:29:50 AM

Electronic Record and Signature Disclosure:

Accepted: 1/25/2019 11:48:44 AM

ID: a95875ba-4013-47a0-a907-084c2500a503

Rita Cheng

rcheng@centralsan.org

Associate Engineer

CCCSD

Security Level: Email, Account Authentication
(None)

Signature Adoption: Uploaded Signature Image

Using IP Address: 12.86.194.210

Sent: 7/25/2024 7:29:54 AM

Viewed: 7/25/2024 8:43:43 AM

Signed: 7/25/2024 8:44:40 AM

Electronic Record and Signature Disclosure:

Accepted: 6/5/2018 4:37:55 PM

ID: a91dc6ad-104d-4317-9658-d64ed7368b87

Greg Norby

gnorby@centralsan.org

Deputy GM

Security Level: Email, Account Authentication
(None)

Signature Adoption: Pre-selected Style

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Sent: 7/25/2024 9:37:47 AM

Resent: 7/25/2024 10:41:48 AM

Viewed: 7/25/2024 12:10:59 PM

Signed: 7/25/2024 12:11:23 PM

Electronic Record and Signature Disclosure:

Signer Events	Signature	Timestamp
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Accepted: 8/31/2023 8:46:50 AM
 ID: 84b203ed-8bcb-4ee8-b884-e25fdc9de3fa

Alan Weer
 aweer@centralsan.org
 Plant Ops. Div. Manager
 Security Level: Email, Account Authentication (None)

Alan Weer

Sent: 7/25/2024 12:11:28 PM
 Viewed: 7/26/2024 2:53:44 PM
 Signed: 7/26/2024 2:54:07 PM

Signature Adoption: Pre-selected Style
 Using IP Address: 12.86.194.210

Electronic Record and Signature Disclosure:
 Accepted: 7/26/2024 2:53:44 PM
 ID: bf722647-668b-40a1-a9f2-3b85228e9551

Lori Schectel
 lschectel@centralsan.org
 Envntl&Reg Compliance Div Manager
 Security Level: Email, Account Authentication (None)

LS

Sent: 7/25/2024 8:44:44 AM
 Resent: 7/26/2024 2:54:13 PM
 Viewed: 7/30/2024 10:08:39 AM
 Signed: 7/30/2024 10:08:57 AM

Signature Adoption: Pre-selected Style
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 Accepted: 7/30/2024 10:08:39 AM
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Editor Delivery Events	Status	Timestamp
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Intermediary Delivery Events	Status	Timestamp
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Certified Delivery Events	Status	Timestamp
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Carbon Copy Events	Status	Timestamp
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Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
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Envelope Sent	Hashed/Encrypted	7/24/2024 11:04:09 AM
Envelope Updated	Security Checked	7/25/2024 9:37:46 AM
Certified Delivered	Security Checked	7/30/2024 10:08:39 AM
Signing Complete	Security Checked	7/30/2024 10:08:57 AM
Completed	Security Checked	7/30/2024 10:08:57 AM

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Electronic Record and Signature Disclosure
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Browsers:	Final release versions of Internet Explorer® 6.0 or above (Windows only); Mozilla Firefox 2.0 or above (Windows and Mac); Safari™ 3.0 or above (Mac only)
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Screen Resolution:	800 x 600 minimum
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