



CENTRAL CONTRA COSTA SANITARY DISTRICT

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July 27, 2023

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Attn: Title V Reports
375 Beale Street, Suite 600
San Francisco, CA 94105

TV Tracking #: 754

1. RECEIVED IN
ENFORCEMENT: 07/27/2023

KATIE YOUNG
Secretary of the District

SUBJECT: TITLE V SEMI-ANNUAL JANUARY THROUGH JUNE 2023 AND
TITLE V SECOND QUARTER 2023 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 2023 and Title V Second Quarter 2023 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 Senior Engineer Rita Cheng at rcheng@centralsan.org or 925-957-7630.

Sincerely,

Alan Weer

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

Enclosures

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July 27, 2023
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**TITLE V SEMI-ANNUAL
JANUARY THROUGH JUNE 2023
AND
TITLE V SECOND QUARTER 2023
COMBINED REPORT
January 1, 2023, through June 30, 2023**

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

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



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1 Introduction

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, 2023, through June 30, 2023, as well as the second quarter reporting requirements for April 1, 2023, through June 30, 2023.

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, 2022, through June 30, 2022.

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 A). The next annual tune-up, insulation check, exhaust temperatures check, and emissions source test are tentatively scheduled for Fall 2023.

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

Furnace No. 1 (S-9) began operation on January 24, 2023, and Furnace No. 2 (S-10) operated until January 27, 2023. 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 was above the minimum of 5.9 inches water column 99.99 percent of the time, and that of S-10 was above the minimum of 4.7 inches water column 100 percent of the time during the reporting period (Appendix B).

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 during the reporting period (Appendix C). 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 D).

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 E).

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 99.992 percent and 99.990 percent, respectively, of the reporting period. See Appendix F 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

Effective March 21, 2016, Section 129 of the Clean Air Act (Sewage Sludge Incinerator Regulations) restricts the use of the furnace exhaust bypass damper while sewage sludge is in the combustion chamber (until the end of Sewage Sludge Incinerator 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:

January 27, 2023, Furnace No. 1 Opacity Inoperative Monitor

On January 27, 2023, Central San submitted RCA 08Q40 to report the inoperative opacity meter on S-9. The monitor was inoperative from January 26, 2023, at 08:17 to January 27, 2023, at 09:23. The opacity meter resumed normal operation at 09:24 on January 27, 2023.

April 18, 2023, Furnace No. 1 Wet Scrubber Differential Pressure Exceedance

S-9 was removed from service for maintenance on April 18, 2023. Sludge was reintroduced to S-9 at 13:58. The wet scrubber differential pressure (dP) on S-9 was below the 15-minute block average limit of 5.9 inches water column for a single 15-minute period between 14:00 and 14:14. Central San submitted RCA 08S16 to report the exceedance the same day.

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 18, 2023. 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 415 gallons (Appendix G). 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 by using a BAAQMD-approved device every calendar quarter. Quarterly H₂S monitoring results were below the H₂S limit and are summarized in Appendix H.

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

In March 2021, Central San replaced the carbon monoxide (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 I).

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 44.6 hours for testing and 99.9 hours while the furnaces were unavailable. Emissions were in compliance with the respective limits for H₂S and organic compounds.

3 Second Quarter 2023 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 38 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 7.5 parts per million by volume, dry (ppmvd). This concentration is significantly lower than the permit limit of 300 ppmvd. Quarterly SO₂ concentration readings from LFG combustion are included in Appendix J.

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 0.26 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 2023.

While combusting NG, the maximum SO₂ concentration in the stack gas from the auxiliary boilers, furnaces, and cogeneration during the reporting period was 0.47 ppmvd SO₂, which is well below the permit limit of 300 ppmvd SO₂. Quarterly SO₂ concentration readings from NG combustion are included in Appendix J.

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 28, 2023. 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 June 15, 2023. 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 K.

I certify the following:

This completes the Title V reporting requirements for the semi-annual period of January 1, 2023, through June 30, 2023, as well as the second quarter period of April 1, 2023, through June 30, 2023. To the best of my knowledge, the information contained herein is true and accurate.

Alan Weer

7/26/2023

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

Date

APPENDIX A

Central Contra Costa Sanitary District, Plant No. A0907

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

January 1, 2023 through June 30, 2023

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 B

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Wet Scrubber Minimum Pressure Drop Monitoring Summary

January 1, 2023 through June 30, 2023

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%	No exceedances
March			0.00	100.00%	No exceedances
April	4/18/2023 14:00	4/18/2023 14:15	0.25	99.97%	RCA 08S16
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances

Total Exceedances (Hours): 0.25**Total Above Limit Hours (% of Total Available Hours):** 99.99%

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%	S-10 offline
March			0.00	100.00%	S-10 offline
April			0.00	100.00%	S-10 offline
May			0.00	100.00%	S-10 offline
June			0.00	100.00%	S-10 offline

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 Oxygen Monitoring Summary

January 1, 2023 through June 30, 2023

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%	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 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			0.00	100.00%	No exceedances
February			0.00	100.00%	S-10 offline
March			0.00	100.00%	S-10 offline
April			0.00	100.00%	S-10 offline
May			0.00	100.00%	S-10 offline
June			0.00	100.00%	S-10 offline

Total Excursions (Hours): 0.00**Total Below Limit Hours (% of Total Available Hours):** 100.00%

APPENDIX D

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Opacity Monitoring Summary

January 1, 2023 through June 30, 2023

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%	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%

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%	S-10 offline
March			0.00	100.00%	S-10 offline
April			0.00	100.00%	S-10 offline
May			0.00	100.00%	S-10 offline
June			0.00	100.00%	S-10 offline

Total Exceedances (Hours): 0.00**Total Below Limit Hours (% of Total Available Hours):** 100.00%

APPENDIX E

Central Contra Costa Sanitary District, Plant No. A0907

Sludge Volatile Content Monitoring Summary

January 1, 2023 through June 30, 2023

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 F

Central Contra Costa Sanitary District, Plant No. A0907
 Furnaces Hearth Temperature Monitoring Summary
 January 1, 2023 through June 30, 2023

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				0.00	100.00%	No excursions
February				0.00	100.00%	No excursions
March	3/16/2023 12:00	3/16/2023 14:00	6	2.00	99.98%	
April				0.00	100.00%	No excursions
May				0.00	100.00%	No excursions
June	6/14/2023 23:00	6/15/2023 0:00	6	1.00	99.97%	
	6/28/2023 3:00	6/28/2023 4:00	6	1.00		

Total Excursions (Hours): 4.00
 Total Above Limit Hours (% of Total Available Hours): 99.992%

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	1/11/2023 13:00	1/11/2023 14:00	6	1.00	99.94%	
	1/24/2023 17:00	1/24/2023 18:00	6	1.00		
	1/25/2023 18:00	1/25/2023 21:00	6	3.00		
February				0.00	100.00%	S-10 offline
March				0.00	100.00%	S-10 offline
April				0.00	100.00%	S-10 offline
May				0.00	100.00%	S-10 offline
June				0.00	100.00%	S-10 offline

Total Excursions (Hours): 5.00
 Total Above Limit Hours (% of Total Available Hours): 99.990%

APPENDIX G

Central Contra Costa Sanitary District, Plant No. A0907 Gasoline
Dispensing Facility Gasoline Meter Readings Summary
January 1, 2023 through June 30, 2023

Month	Gasoline Meter Readings (gallons)	Quarterly Total (gallons)	12-month Total (gallons)
Start (Jun-22)	1,618.1		
Jul-22	1,662.0	103	415
Aug-22	1,706.2		
Sep-22	1,720.9		
Oct-22	1,791.4	123	
Nov-22	1,806.4		
Dec-22	1,844.0		
Jan-23	1,851.8	33	
Feb-23	1,852.2		
Mar-23	1,877.0		
Apr-23	1,912.7	156	
May-23	1,959.6		
Jun-23	2,033.4		

BAAQMD Consecutive 12-month Maximum Limit: 400,000

APPENDIX H

Central Contra Costa Sanitary District, Plant No. A0907 Preliminary
Treatment Hydrogen Sulfide Monitoring Summary
January 1, 2023 through June 30, 2023

Monitoring Date	Quarter	OCU E (A-23) H2S, ppm	OCU W (A-24) H2S, ppm
January 12, 2023	Q1	0.16	0.00
May 4, 2023	Q2	0.21	0.00

Permit Limit: 10.0

APPENDIX I

Central Contra Costa Sanitary District, Plant No. A0907
Cogeneration Carbon Monoxide Monitoring Summary
January 1, 2023 through June 30, 2023

Monitoring Date	Quarter	Cogen NG Flow (kcf/d)	CO Concentration (ppm)	O2 Concentration (%)	CO Mass Emissions (lb/day)
February 17, 2023	Q1	1,032	15.4	16.4	48.7
May 12, 2023	Q2	860	13.7	17.0	42.3

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 J

Central Contra Costa Sanitary District, Plant No. A0907
 SO₂ Concentration Summary from Landfill Gas and Natural Gas Combustion
 January 1, 2023 through June 30, 2023

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	499	45.0	507	51.0	10.7
February	508	51.0			
March	515	45.0			
April	543	38.0	539	38.0	7.5
May	539	33.0			
June	536	31.0			

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	Average Weekly Heating Value (J15) (BTU)	Max SO ₂ Discharge from NG Combustion in Boilers, MHFs, and Cogen @ 0% O ₂ (ppm)
First	0.25	1,044	0.46
Second	0.26	1,061	0.47

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 K

Central Contra Costa Sanitary District, Plant No. A0907

Total Organic Carbon Leak Checks Summary - Landfill Gas System

January 1, 2023 through June 30, 2023

Landfill Gas System at Central San		
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired
First	3/3/2023	6
Second	6/15/2023	0

Landfill Gas Delivery System Operated by Acme Landfill		
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired
First	3/30/2023	0
Second	6/28/2023	0

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Pool: Central Contra Costa Sanitary District

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Signer Events**Signature****Timestamp**

Khang Nguyen

knguyen@centralsan.org

Assistant Engineer

Security Level: Email, Account Authentication
(None)Signature Adoption: Uploaded Signature Image
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Robert Hess

rhess@centralsan.org

Assistant Engineer

Security Level: Email, Account Authentication
(None)Signature Adoption: Pre-selected Style
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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
Signed using mobile

Sent: 7/25/2023 4:51:53 PM

Viewed: 7/25/2023 4:56:42 PM

Signed: 7/25/2023 4:57:25 PM

Electronic Record and Signature Disclosure:

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

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

Lori Schectel

lschectel@centralsan.org

Envtl&Reg Compliance Div Manager

Security Level: Email, Account Authentication
(None)Signature Adoption: Pre-selected Style
Using IP Address: 12.86.194.210

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Signed: 7/26/2023 8:33:18 AM

Electronic Record and Signature Disclosure:

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Accepted: 7/26/2023 8:32:45 AM ID: 6bd43805-8f13-4c07-8ba5-275d4150e809		
Alan Weer aweer@centralsan.org Plant Ops. Div. Manager Security Level: Email, Account Authentication (None)	<i>Alan Weer</i> Signature Adoption: Pre-selected Style Using IP Address: 107.77.213.5 Signed using mobile	Sent: 7/26/2023 8:33:19 AM Viewed: 7/26/2023 10:44:54 AM Signed: 7/26/2023 10:47:58 AM
Electronic Record and Signature Disclosure: Accepted: 7/26/2023 10:44:54 AM ID: 3ab94956-24d1-4989-8ac5-2bc9b98c4993		
In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	7/25/2023 4:21:51 PM
Certified Delivered	Security Checked	7/26/2023 10:44:54 AM
Signing Complete	Security Checked	7/26/2023 10:47:58 AM
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Screen Resolution:	800 x 600 minimum
Enabled Security Settings:	Allow per session cookies

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