



CENTRAL SAN

CENTRAL CONTRA COSTA SANITARY DISTRICT

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July 30, 2021

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

TV Tracking #: 267

1. RECEIVED IN 07/28/2021
ENFORCEMENT: _____

SUBJECT: TITLE V SEMI-ANNUAL JANUARY THROUGH JUNE 2021 AND
TITLE V SECOND QUARTER 2021 COMBINED REPORT

Dear Mr. Gove:

Central Contra Costa Sanitary District operates its wastewater treatment facility under a United States Environmental Protection Agency Title V Major Facility Review Permit and a Bay Area Air Quality Management District Permit-to-Operate (Plant No. A0907).

The attached Title V Semi-Annual January through June 2021 and Title V Second Quarter 2021 Combined Report discusses the compliance performance of Central Contra Costa Sanitary District's permitted sources and complies with the reporting requirements contained 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 & Regulatory Compliance Division Manager Lori Schectel at 925-229-7143 or lschectel@centralsan.org.

Sincerely,

Steve McDonald

Steve McDonald, P.E.
Director of Operations

Enclosures

Cc: McKenzie Bell – MBell@baaqmd.gov

Mr. Jeffrey Gove
Bay Area Air Quality Management District
July 30, 2021
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**TITLE V SEMI-ANNUAL
JANUARY THROUGH JUNE 2021
AND
TITLE V SECOND QUARTER 2021
COMBINED REPORT
January 1, 2021 through June 30, 2021**

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, 2021 through June 30, 2021, as well as the second quarter reporting requirements for April 1, 2021 through June 30, 2021.

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. There was a minor revision to the Title V permit dated 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). 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, 2021 through June 30, 2021.

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

Both auxiliary boilers 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 with the exception of Reportable Compliance Activity (RCA) No. 07Z65, and the hourly data was 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 September 2021.

RCA No. 07Z65

Central San submitted RCA No. 07Z65 on May 20, 2021 for an inoperative monitor discovered on S-8. The S-8 LFG flowmeter started reporting values when LFG was not being sent to S-8. The S-8 LFG valve was closed, and the meter was removed from service for repairs by the manufacturer. Central San updated BAAQMD with the status of the flowmeter repair on June 8, 2021 and provided a notice of resumption of the flowmeter once it was placed back in service on June 22, 2021.

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

S-9 began operation on October 14, 2020 and S-10 operated until October 16, 2020. During the current reporting period, only S-9 was operational and the solid fuel throughput to S-9 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. S-9 did not exceed 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-10 was firing on LFG. The wet scrubber pressure drop for S-10 was above the minimum 5.9 inches WC 100 percent of the time during the reporting period (Appendix B).

The one-hour Hearth No. 2 oxygen (O₂) levels for S-9 were below the 10 percent O₂ reporting limit for 100 percent of the reporting period (Appendix C). S-9 opacity was not greater than 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).

The hearth temperature readings for S-9 were above their minimum limits for nearly 100 percent of the reporting period. Hearth temperatures lower than the following clock-hour minimums must be reported. 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, the Clean Air Act Section 129 Sewage Sludge Incinerator Regulations restrict 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 is a Title V Permit deviation because the uncontrolled emissions from the bypass stack may exceed one or several of the 129 emission limits in Title 40 CFR, Subpart LLL, Section 62.15955. As directed by BAAQMD Inspector Michael Bostick, furnace bypass events no longer require the submittal of an RCA to BAAQMD. There were two bypass events in the reporting period. The following sections summarize the permit deviations that were submitted to BAAQMD during the reporting period:

May 19, 2021 Furnace No. 1 Emergency Bypass Damper

The bypass damper on Furnace No. 1 opened on May 19, 2021 from 14:18:36 to 14:21:29 for a total of two minutes and 53 seconds. On the afternoon of May 19, 2021, a fire started in a residential neighborhood approximately 1.5 miles northwest of the Treatment Plant, and explosions from the fire de-energized PG&E lines that supply electricity to the Treatment Plant, resulting in a loss of PG&E import power. The sudden loss of power generated power fluctuations across the Treatment plant, eventually preventing the online 2nd stage pump on the wet scrubber and the backup pump from running. Operation of the induced draft fan requires at least one of each pair of scrubber pumps running on each stage, otherwise hot exhaust gases that have not been cooled down could damage equipment and a safety risk to employees. The control logic turned off the induced draft fan and triggered the bypass damper to open. The backup 2nd stage pump initiated operation shortly after and the induced draft fan turned back on, closing the bypass damper. Sludge feed was later restored after the furnace combustion process reached a stable condition.

A 10-day deviation notification was submitted to BAAQMD on May 27, 2021 and a 30-day Title V report was submitted on June 17, 2021. On June 29, 2021, Central San was issued Notice of Violation A60411 for the bypass event.

2.3 Gasoline Dispensing Facility (S-25)

S-25 passed the annual pressure decay test (ST-38) and the annual vapor recovery inspection on May 6, 2021. Reinholdt Engineering Construction conducted the 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 719 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)

The preliminary treatment (S-110) only operated when being 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 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. No visible emissions were observed.

2.6 Cogeneration (S-188)

S-188 fired only on Public Utilities Commission quality NG and did not exceed the permit fuel throughput limit of 1,188 MMBTU/day or 49.5 MMBTU/hour during the reporting period. 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

After demonstrating 12 consecutive months of compliant carbon monoxide (CO) emission levels, Central San switched to quarterly CO emissions monitoring in 2019 per Permit-to-Operate (PTO) Condition 21485, Part 9b. 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.

In March 2021, Central San replaced the CO catalyst element in-kind and conducted source testing for formaldehyde (per PTO Condition 21485, Part 9c) and CO (NST-6415). Central San returned to monthly CO monitoring per PTO Condition 21485, Part 9b. The estimated CO mass emissions were below 118 pounds/day on each monitoring day during the reporting period (Appendix I).

RCA No. 07Y82 was submitted to BAAQMD on March 25, 2021 for an inoperative NO_x monitor that became unresponsive after a power cycle, which was required to activate newly configured network settings. On April 8, 2021, a status update for the RCA was submitted to BAAQMD. A notice of resumption for RCA No. 07Y82 was submitted the following day on April 9, 2021. While the NO_x monitor was inoperative, the injection water-to-fuel ratio served as a parametric monitor for NO_x emissions compliance.

2.7 Sludge Loading Facility (S-197)

S-197 is a Sludge Loading Facility designed for use if S-9 and S-10 are not operational. It is a newly renovated enclosed building with a new odor control system (A-199). S-197 is allowed 100 run hours annually for maintenance and testing. S-197 was not operated during the reporting period.

3 Second Quarter 2021 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 50.0 ppmv during the second quarter period. Based on this H₂S concentration, the estimated maximum exhaust gas SO₂ concentration from the auxiliary boilers and furnaces was 10.0 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 first quarter of 2021 (second quarter data was not available by the submittal of this report).

While combusting NG, the maximum SO₂ concentration in the stack gas from the auxiliary boilers, furnaces, and cogeneration during the reporting period was 0.51 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 30, 2021. There were no leaks in excess of the 1,000 ppmv as methane limit in BAAQMD Regulation 8, Rule 34.

The LFG piping from Central San’s point of delivery to the permitted sources was tested for leaking components on June 17, 2021. There were no leaks in excess of the 1,000 ppmv as methane limit in BAAQMD Regulation 8, Rule 34. Quarterly total organic carbon leaks data are presented in Appendix K.

I certify the following:

This completes the Title V reporting requirements for the semi-annual period of January 1, 2021 through June 30, 2021, as well as the second quarter period of April 1, 2021 through June 30, 2021. To the best of my knowledge, the information contained herein is true and accurate.

Steve McDonald

**Steve McDonald, P.E.
Director of Operations**

07/26/2021

Date

APPENDIX A

Central Contra Costa Sanitary District, Plant No. A0907

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

January 1, 2021 through June 30, 2021

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, 2021 through June 30, 2021

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			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%

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%	S-10 offline
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, 2021 through June 30, 2021

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 excursions
February			0.00	100.00%	No excursions
March			0.00	100.00%	No excursions
April			0.00	100.00%	No excursions
May			0.00	100.00%	No excursions
June			0.00	100.00%	No excursions

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%	S-10 offline
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, 2021 through June 30, 2021

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%	S-10 offline
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, 2021 through June 30, 2021

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, 2021 through June 30, 2021

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	1/9/2021 9:00	1/9/2021 11:00	6	2.00	99.85%	
	1/15/2021 10:00	1/15/2021 13:00	6	3.00		
	1/15/2021 15:00	1/15/2021 16:00	6	1.00		
	1/15/2021 18:00	1/15/2021 19:00	6	1.00		
	1/15/2021 20:00	1/15/2021 22:00	6	2.00		
	1/16/2021 17:00	1/16/2021 20:00	6	3.00		
February	2/2/2021 7:00	2/2/2021 11:00	6	4.00	99.95%	
March	3/29/2021 16:00	3/29/2021 17:00	6	1.00	99.99%	
April	4/18/2021 11:00	4/18/2021 12:00	6	1.00	99.99%	
May	5/19/2021 14:00	5/19/2021 15:00	6	1.00	99.99%	
June	6/28/2021 2:00	6/28/2021 3:00	6	1.00	99.99%	

Total Excursions (Hours): 20.00
 Total Above Limit Hours (% of Total Available Hours): 99.958%

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%	S-10 offline
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 Above Limit Hours (% of Total Available Hours): 100.000%

APPENDIX G

Central Contra Costa Sanitary District, Plant No. A0907

Gasoline Dispensing Facility Gasoline Meter Readings Summary

January 1, 2021 through June 30, 2021

Month	Gasoline Meter Readings (gallons)	Quarterly Total (gallons)	12-month Total (gallons)
Start (Jun-20)	150		
Jul-20	212	207	719
Aug-20	284		
Sep-20	357		
Oct-20	404.5	165	
Nov-20	520.5		
Dec-20	521.7		
Jan-21	522.8	131	
Feb-21	524.1		
Mar-21	652.8		
Apr-21	724.2	216	
May-21	781.3		
Jun-21	869.0		

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, 2021 through June 30, 2021

Monitoring Date	Quarter	OCU E (A-23) H2S, ppm	OCU W (A-24) H2S, ppm
January 14, 2021	Q1	0.26	0.13
April 1, 2021	Q2	0.00	0.00

Permit Limit:

10.0

APPENDIX I

Central Contra Costa Sanitary District, Plant No. A0907
Cogeneration Carbon Monoxide Monitoring Summary
January 1, 2021 through June 30, 2021

Monitoring Date	Quarter	Cogen NG Flow (kcf/d)	CO Concentration (ppm)	O2 Concentration (%)	CO Mass Emissions (lb/day)
January 13, 2021	Q1	940	22.4	16.9	73.2
March 22, 2021	Q1	906	12.8	17.1	42.8
April 14, 2021	Q2	872	13.1	17.2	43.0
May 6, 2021	Q2	914	13.6	17.0	44.4
June 15, 2021	Q2	921	13.6	16.8	42.7

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 operational 3/18/2021

APPENDIX J

Central Contra Costa Sanitary District, Plant No. A0907

SO₂ Concentration Summary from Landfill Gas and Natural Gas Combustion

January 1, 2021 through June 30, 2021

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	521	50.0	531	52.0	10.4
February	532	49.0			
March	539	52.0			
April	539	45.0	532	50.0	10.0
May	533	44.0			
June	524	50.0			

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	0.26	1,039	0.51
Second	0.26	1,032	0.51

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, 2021 through June 30, 2021

Landfill Gas System at Central San		
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired
First	2/23/2021	0
Second	6/17/2021	0

Landfill Gas Delivery System Operated by Acme Landfill		
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired
First	3/25/2021	0
Second	6/30/2021	0

Certificate Of Completion

Envelope Id: 1D571A8B55F54340AADD39C71FCF2F93

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

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knguyen@centralsan.org

Assistant Engineer

Security Level: Email, Account Authentication
(None)Signature Adoption: Uploaded Signature Image
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Viewed: 7/26/2021 12:11:32 PM

Signed: 7/26/2021 12:11:44 PM

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Accepted: 7/24/2018 2:16:32 PM

ID: 89a2cbeb-cfa6-486b-af9d-747e1d2a7758

Robert Hess

rhess@centralsan.org

Assistant Engineer

Security Level: Email, Account Authentication
(None)Signature Adoption: Pre-selected Style
Using IP Address: 107.127.14.98
Signed using mobile

Sent: 7/26/2021 12:11:47 PM

Viewed: 7/26/2021 12:16:57 PM

Signed: 7/26/2021 12:17:10 PM

Electronic Record and Signature Disclosure:

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

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

Lori Schectel

lschectel@centralsan.org

Envtl&Reg Compliance Div Manager

Security Level: Email, Account Authentication
(None)Signature Adoption: Pre-selected Style
Using IP Address: 76.126.171.12

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Viewed: 7/26/2021 12:39:08 PM

Signed: 7/26/2021 12:39:49 PM

Electronic Record and Signature Disclosure:

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ID: 67a66655-f6ca-4695-82ad-88fdb9ffe405

Alan Weer

aweer@centralsan.org

Plant Ops. Div. Manager

Security Level: Email, Account Authentication
(None)Signature Adoption: Pre-selected Style
Using IP Address: 69.42.1.216

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Viewed: 7/26/2021 4:30:29 PM

Signed: 7/26/2021 4:30:43 PM

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ID: b1b113d8-389c-4ec1-a640-18ec58fc3739

Jean-Marc Petit
jmpetit@centralsan.org
Director of Engineering
Security Level: Email, Account Authentication (None)



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

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ID: adaf246f-509c-4373-9b01-fb59f68973bd

Steve McDonald
smcdonald@centralsan.org
Director of Operations
Security Level: Email, Account Authentication (None)



Signature Adoption: Pre-selected Style
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Intermediary Delivery Events	Status	Timestamp
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Envelope Summary Events	Status	Timestamps
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Signing Complete	Security Checked	7/27/2021 5:58:32 PM
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Document Pages: 27	Signatures: 1
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Time Zone: (UTC-08:00) Pacific Time (US & Canada)	5019 Imhoff Place
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Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	7/28/2021 8:43:39 AM
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