CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

*Environmental Services Department*
San Jose-Santa Clara Regional Wastewater Facility

March 25, 2020

Mr. Jeffrey Gove
Director of Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105

**Re: Title V Semi-Annual Report**
**September 1st, 2019 to February 29th, 2020**
San Jose/Santa Clara Regional Wastewater Facility
700 Los Esteros Road, San Jose, CA 95134
Facility No. A0778

Dear Mr. Gove:

This letter and the attached table comprise Title V Semi-annual report for the San Jose-Santa Clara Regional Wastewater Facility (RWF) covering the period from September 1st, 2019 through February 29th, 2020. The RWF was in compliance with all applicable requirements during the reporting period.

A summary of compliance provisions is included in the attached table. The basis for the compliance determination is listed in the Results column. The monitoring data, source test reports, and records that validate the complete compliance record are available for inspection on site. If there are any questions, or if additional information is required, please contact Jason Nettleton, Air Compliance Manager, at (408) 635-4036.

**Based on information and belief formed after reasonable inquiry, I certify that the information presented in this Semi-Annual Report is true, accurate, and complete.**

Sincerely,

Amit Mutsuddy
Deputy Director
Regional Wastewater Facility

Enclosures:
1. Semi-Annual Report Tab

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**

**Table VII— A**

**Applicable Limits and Compliance Monitoring Requirements**

**S-5, Stationary Internal Combustion Engine, Plt E2, Location P&E**

**S-7, Stationary Internal Combustion Engine, Plt E5, Location P&E**

*Note: E2 (S-5) Decommissioned on 2/23/2017; E5 (S-7) Decommissioned on 2/25/2017.

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**

**Table VII— B**

**Applicable Limits and Compliance Monitoring Requirements**

**S-9, Stationary Internal Combustion Engine, Plt A3, Location SBC**
**S-10, Stationary Internal Combustion Engine, Plt A2, Location SBC**
**S-11, Stationary Internal Combustion Engine, Plt A1, Location SBC**
**S-12, Stationary Internal Combustion Engine, Plt B1, Location SBC**
**S-13, Stationary Internal Combustion Engine, Plt B2, Location SBC**
**S-14, Stationary Internal Combustion Engine, Plt B3, Location SBC**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| $NO_x$ | BAAQMD Regulation 9-8-302.1 | Y | 70 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Condition 17899, Part 9.b | P/ 8760 hrs. | S-9 Date: 4/12/19 Result: 37.3 ppm Hours: 1867<br>S-10 Date: 9/14/17 Result: 18.1 ppm Hours: 7102<br>S-11 Date: 6/21/18 Result: 19.0 ppm Hours: 5486<br>S-12 Date: 9/29/15 Result: 54.0 ppm Hours: 5703<br>S-13 Date: 4/12/19 Result: 11.4 ppm Hours: 5004<br>S-14 Date: 9/10/19 Result: 20.0 ppm Hours: 547 |
| $NO_x$ | BAAQMD Regulation 9-8-302.1 | N | 70 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Regulation 9-8-503 | Quarterly portable analyzer | S-9 Date: 1/21/20 Result: 35 ppm<br>S-10 Date: 1/17/20 Result: 17 ppm<br>S-11 Date: 1/15/20 Result: 30 ppm<br>S-12 Date: 1/16/20 Result: 26 ppm<br>S-13 Date: 1/17/20 Result: 39 ppm<br>S-14 Date: 1/17/20 Result: 36 ppm |
| CO | BAAQMD Condition 17899, Part 3 | Y | 1620 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Condition 17899, Part 9.b | P/ 8760 hrs. | S-9 Date: 4/12/19 Result: 244.0 ppm Hours: 1867<br>S-10 Date: 9/14/17 Result: 275.6 ppm Hours: 7102<br>S-11 Date: 6/21/18 Result: 319.9 ppm Hours: 5486<br>S-12 Date: 9/29/15 Result: 291.0 ppm Hours: 5703<br>S-13 Date: 4/12/19 Result: 543.0 ppm Hours: 5004<br>S-14 Date: 9/10/19 Result: 334.0 ppm Hours: 547 |
| CO | BAAQMD Regulation 9-8-302.3 | N | 2000 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Regulation 9-8-503 | Quarterly portable analyzer | S-9 Date: 1/21/20 Result: 244 ppm<br>S-10 Date: 1/17/20 Result: 378 ppm<br>S-11 Date: 1/15/20 Result: 267 ppm<br>S-12 Date: 1/16/20 Result: 247 ppm<br>S-13 Date: 1/17/20 Result: 294 ppm<br>S-14 Date: 1/17/20 Result: 266 ppm |
| NMHC | BAAQMD Condition 17899, Part 4 | Y | 225 ppmv for Digester gas @ 15% $O_2$, dry<br>108 ppm for Landfill gas @ 3% O2 dry | BAAQMD Condition 17899, Part 9.b&c | P/ 8760 hrs. | S-9 Date: 4/12/19 Result: 35.3 ppm Hours: 1867<br>S-10 Date: 9/14/17 Result: 51.9 ppm Hours: 7102<br>S-11 Date: 6/21/18 Result: 67.5 ppm Hours: 5486<br>S-12 Date: 9/29/15 Result: 64.0 ppm Hours: 5703<br>S-13 Date: 4/12/19 Result: 85.9 ppm Hours: 5004<br>S-14 Date: 9/10/19 Result: 39.4 ppm Hours: 547 |
| $SO_2$ | BAAQMD Regulation 9-1-302 | Y | 300 ppmv outlet $SO_2$<br>350 ppmv TRS digester gas | BAAQMD Condition 17741, Part 4 | P/W | S210 Date: 9/12/19 Result: 291 ppm |
| Key Parameter | BAAQMD Regulation 8-34-509 | Y | Cylinder Temperature >600 degrees F | BAAQMD Condition 17898, Part 8a | Continuous | S-9 Temp.: >600F<br>S-10 Temp.: >600F<br>S-11 Temp.: >600F<br>S-12 Temp.: >600F<br>S-13 Temp.: >600F<br>S-14 Temp.: >600F |
| Gas Flow | BAAQMD Regulation 8-34-508 | Y | Record Every 5 Minutes | BAAQMD Condition 17898, Part 7a | P/15 minutes | S-9 Recorded every 5 minutes<br>S-10 Recorded every 5 minutes<br>S-11 Recorded every 5 minutes<br>S-12 Recorded every 5 minutes<br>S-13 Recorded every 5 minutes<br>S-14 Recorded every 5 minutes |

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**

**Table VII— B (cont.)**

**Applicable Limits and Compliance Monitoring Requirements**

**S-9, Stationary Internal Combustion Engine, Plt A3, Location SBC**
**S-10, Stationary Internal Combustion Engine, Plt A2, Location SBC**
**S-11, Stationary Internal Combustion Engine, Plt A1, Location SBC**
**S-12, Stationary Internal Combustion Engine, Plt B1, Location SBC**
**S-13, Stationary Internal Combustion Engine, Plt B2, Location SBC**
**S-14, Stationary Internal Combustion Engine, Plt B3, Location SBC**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| Heat Input | BAAQMD Condition 17899 Part 5 | Y | Not to exceed<br>S9: 525.4 MM Btu/per day<br>S10: 525.4 MM Btu/per day<br>S11: 525.4 MM Btu/per day<br>S12: 415.5 MM Btu/per day<br>S13: 415.5 MM Btu/per day<br>S14: 415.5 MM Btu/per day | BAAQMD Condition 17899, Part 5 | P/M | S-9 Date: 9/4/19 Result: 468.9 MM Btu/day (Max.)<br>S-10 Date: 2/23/20 Result: 489.9 MM Btu/day (Max.)<br>S-11 Date: 2/25/20 Result: 458.1 MM Btu/day (Max.)<br>S-12 Date: 11/14/19 Result: 369.5 MM Btu/day (Max.)<br>S-13 Date: 2/25/20 Result: 332.5 MM Btu/day (Max.)<br>S-14 Date: 11/3/19 Result: 351.4 MM Btu/day (Max.) |

**Table VII— C**

**Applicable Limits and Compliance Monitoring Requirements**

**S-15, Paint Spray Booth**
**S-16, Paint Spray Booth**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| Coating Throughput | BAAQMD Condition 17737 Part 1 | Y | Coatings<br>50 gal/12 months | BAAQMD Condition 17737 Part 3 | P/D | S71<50 gals of coatings used in the last 12 months… Result: 0 Gal.<br>S-16<50 gals of coatings used in the last 12 months… Result: 0 Gal. |
| Primer Throughput | BAAQMD Condition 17737 Part 1 | Y | Primer<br>50 gal/12 months | BAAQMD Condition 17737 Part 3 | P/D | S71<50 gals of primer used in the last 12 months: Result: 0 Gal.<br>S16<50 gals of primer used in the last 12 months… Result: 0 Gal. |
| Solvent Throughput | BAAQMD Condition 17737 Part 2 | Y | Methyl Ethyl Ketone<br>50 gal/12 months<br>Mineral Spirits<br>50 gal/12 months | BAAQMD Condition 17737 Part 3 | P/D | S71<50 gals of each solvent used in the last 12 months... Result: 6 Gal.<br>S16<50 gals of each solvent used in the last 12 months... Result: 38 Gal. |
| VOC | BAAQMD Regulation 8-19-301.1 | Y | Baked Coating<br>2.3 lb/gal max VOC | BAAQMD Regulation 8-19-501 | P/W | No baked coatings used. |
| VOC | BAAQMD Regulation 8-19-301.1 | Y | Air Dried Coating<br>2.8 lb/gal max VOC | BAAQMD Regulation 8-19-501 | P/W | VOC content of each coating used is less than 2.8 lb/gal. (Paint Shop has MSDS) |

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**

**Table VII— D**

**Applicable Limits and Compliance Monitoring Requirements**

**S-26, Gasoline Dispensing Island**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| Gasoline Throughput | BAAQMD Condition 17738 Part 1 | N | 50,000 gallons | BAAQMD Condition 17738, Part 2 | P/D | S26 Date: 2/15/19 -- 2/13/20 Volume: 12,194 Gal. |
| Fugitive Emissions | BAAQMD Condition 24298 Part 3 | | < 3 drops/minute - liquids<br>< 100 % of LEL - vapor | BAAQMD Condition 24298 Part 4 | P/A | S26 Date: 8/2/19 Result: Pass |
| Dispensing Rates | BAAQMD Condition 24298 Part 7 | | Dispensing rate between 6 and 10 gpm | BAAQMD Condition 24298 Part 4 | P/A | S26 Date: 8/2/19 Result: Pass |

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**

**Table VII— E**

**Applicable Limits and Compliance Monitoring Requirements**

**S-36, Engine Generator 1 - Cogen Unit, Plt EG2**
**S-37, Engine Generator 2 - Cogen Unit, Plt EG3**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| $NO_x$ | BAAQMD Regulation 9-8-302.1 | Y | 70 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Condition 17900, Part 10 | P/ 8760 hrs. | S36 Date: 9/13/17 Result: 23.7 ppm Hours: 2152<br>S37 Date: 10/5/19 Result: 44.2 ppm Hours: 2833 |
| $NO_x$ | BAAQMD Regulation 9-8-302.1 | N | 70 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Regulation 9-8-503 | Quarterly portable analyzer | S36 Date: 1/16/20 Result: 27.6 ppm<br>S37 Date: 1/16/20 Result: 38.4 ppm |
| $NO_x$ | BAAQMD Condition 17900 Part 2 | Y | 1.6 gram/bhp-hr | BAAQMD Condition 17900 Part 10.b | P/ 8760 hrs. | S36 Date: 9/13/17 Result: 0.04 g/bhp-hr Hours: 2152<br>S37 Date: 10/5/19 Result: 0.77 g/bhp-hr Hours: 2833 |
| $NO_x$ | BAAQMD Condition 17900 Part 16 | Y | 774 lb/24 hours combined emissions from S-36, S-37, S-38 and S-39 | BAAQMD Condition 17900 Part 18 | P/M | Result: 147.8 lb/day on max. day during compliance period |
| CO | BAAQMD Regulation 9-8-302.3 | Y | 2000 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Condition 17900, Part 10 | P/ 8760 hrs. | S36 Date: 9/13/17 Result: 221.4 ppm Hours: 2152<br>S37 Date: 10/5/19 Result: 282.7 ppm Hours: 2833 |
| CO | BAAQMD Regulation 9-8-302.3 | N | 2000 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Regulation 9-8-503 | Quarterly portable analyzer | S36 Date: 1/16/20 Result: 328.9 ppm<br>S37 Date: 1/16/20 Result: 264.0 ppm |
| CO | BAAQMD Condition 17900 Part 3 | Y | 546 lb/24 hr period/engine | BAAQMD Condition 17900 Part 10.b | P/ 8760 hrs. | S36 Date: 9/13/17 Result: 399.5 lb/day Hours: 2152<br>S37 Date: 10/5/19 Result: 543.3 lb/day Hours: 2833 |
| $SO_2$ | BAAQMD Regulation 9-1-302 | Y | 300 ppmv outlet $SO_2$<br>350 ppmv TRS digester gas | BAAQMD Condition 17741, Part 4 | P/W | S210 Date: 9/12/19 Result: 291 ppm |
| $SO_2$ | BAAQMD Condition 17900 Part 17 | Y | 150 lb/24 hours combined emissions from S-36, S-37, S-38 and S-39 | BAAQMD Condition 17900 Part 18 | P/M | Result: 23.6 lb/day on max. day during compliance period |
| FP | BAAQMD Condition, 17900 Part 4 | Y | 36.4 lb/24 hr period | BAAQMD Condition 17900 Part 10.b | P/ 8760 hrs. | S36 Date: 9/13/17 Result: 4.2 lb/day Hours: 2152<br>S37 Date: 10/5/19 Result: 2.0 lb/day Hours: 2833 |
| NMHC | BAAQMD Condition 17900 part 5a | Y | 87.8 lb/24 hr period | BAAQMD Condition 17900 Part 10.c | P/ 8760 hrs. | S36 Date: 9/13/17 Result: 6.7 lb/day Hours: 2152<br>S37 Date: 10/5/19 Result: 8.5 lb/day Hours: 2833 |
| NMHC | BAAQMD Condition 17900 Part 5b. | Y | 108 ppm for Landfill gas @ 3% $O_2$ dry | BAAQMD Condition 17900 Part 10.c | P/ 8760 hrs. | S36 Date: Result: Hours:<br>S37 Date: Result: Hours:<br>*Note: Landfill gas was not combusted during the reporting period.* |

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**

**Table VII— E (cont.)**

**Applicable Limits and Compliance Monitoring Requirements**

**S-36, Engine Generator 1 - Cogen Unit, Plt EG2**
**S-37, Engine Generator 2 - Cogen Unit, Plt EG3**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| Heat Input | BAAQMD Condition 17900 Part 6 | Y | Not to exceed<br>S36: 792 MM Btu/per day<br>S37: 792 MM Btu/per day | BAAQMD Condition 17900 Part 18 | P/M | S36 Date: 1/8/20 Result: 514 MMBtu/day (Max.)<br>S37 Date: 9/10/19 Result: 658 MMBtu/day (Max.) |
| Key Parameter | BAAQMD Regulation 8-34-509 | Y | Cylinder Temperature >600 degrees F | BAAQMD Condition 17900 Part 9a | Continuous | S36 Temp.: >600F<br>S37 Temp.: >600F<br>*Note: Landfill gas was not combusted during the reporting period* |
| Gas Flow | BAAQMD Regulation 8-34-508 | Y | Record Every 5 Minutes | BAAQMD Condition 17900 Part 8a | P/15 minutes | S36 Recorded every 5 minutes<br>S37 Recorded every 5 minutes |

**Table VII— F**

**Applicable Limits and Compliance Monitoring Requirements**

**S-38, Commercial Boiler, 12.5 MM BTU/hr**
**S-39, Commercial Boiler, 12.5 MM BTU/hr**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| $NO_x$ | BAAQMD Regulation 9-7-307.3 | Y | 15 ppmv, dry @ 3% $O_2$ | BAAQMD Condition 17900 Part 19 & 20 | P/A | S38 Date: 12/17/19 Result: 6.8 ppm Hours: 742<br>S39 Date: 12/17/19 Result: 8.1 ppm Hours: 680 |
| $NO_x$ | BAAQMD Condition 17900 Part16 | Y | 774lbs/24hr combined emissions from S-36-37-38,and 39 | BAAQMD Condition 17900 Part 18 | P/M | Result: 147.8 lb/day on max. day during compliance period |
| CO | BAAQMD Regulation 9-7-301.3 | Y | 400 ppmv, dry @ 3% $O_2$ | BAAQMD Condition 17900, Part 19 | P/A | S38 Date: 12/17/19 Result: 0.4 ppm Hours: 742<br>S39 Date: 12/17/19 Result: 0.4 ppm Hours: 680 |
| $SO_2$ | BAAQMD Regulation 9-1-302 | Y | 300 ppmv outlet $SO_2$<br>350 ppmv TRS digester gas | BAAQMD Condition 17741, Part 4 | P/W | S210 Date: 9/12/19 Result: 291 ppm |
| $SO_2$ | BAAQMD Condition 17900, Part 17 | Y | 150lb/24 hr combined emissions from S-36-37-38, and 39 | BAAQMD Condition 17900 Part 18 | P/M | Result: 23.6 lb/day on max. day during compliance period |
| Heat Input | BAAQMD Condition 17900, Part 15 | Y | Not to exceed<br>S38: 12.5 MM Btu/hr<br>S39: 12.5 MM Btu/hr | BAAQMD Condition 17900 Part 18 | P/M | S38 Date: 2/23/20 Result: 11.4 MMBtu/hr (Max.)<br>S39 Date: 2/21/20 Result: 7.3 MMBtu/hr (Max.) |

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**

**Table VII— G**

**Applicable Limits and Compliance Monitoring Requirements**

**S-52, Sand Blast Operations**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| Usage | BAAQMD Condition 9055 Part 1 | Y | 30 tons/12 months | BAAQMD Condition 9055 Part 2 | P/M | S-52 Date: 2/29/20 Result: 6 tons/yr |

**Table VII— H**

**Applicable Limits and Compliance Monitoring Requirements**

**S-54, Engine Generator, 12 - Cylinder Turbocharged LSVB, Plt EG1**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| $NO_x$ | BAAQMD Regulation 9-8-302.1 | Y | 70 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Condition 17901 Part 14.b | P/ 8760 hrs. | S54 Date: 12/5/19 Result: 43 ppm Hours: 1900 |
| $NO_x$ | BAAQMD Regulation 9-8-302.1 | N | 70 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Regulation 9-8-503 | Quarterly portable analyzer | S54 Date: 1/16/20 Result: 31 ppm |
| $NO_x$ | BAAQMD Condition 17901 Part 5 | Y | 0.9 gram/bhp-hr | BAAQMD Condition 17901 Part 14.b | P/ 8760 hrs. | S54 Date: 12/5/19 Result: 0.44 g/bhp-hr Hours: 1900 |
| $NO_x$ | BAAQMD Condition 17901 Part 9 | Y | 36.2 tons/yr | BAAQMD Condition 17901 Part 15 | P/D & P/M | S54 Date: 2/29/20 Result: 13.2 tons/yr |
| CO | BAAQMD Regulation 9-8-302.3 | Y | 2000 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Condition 17900, Part 14 | P/ 8760 hrs. | S54 Date: 12/5/19 Result: 437.3 ppm Hours: 1900 |
| CO | BAAQMD Regulation 9-8-302.3 | N | 2000 ppmv @ 15% $O_2$, dry (waste gas combustion) | BAAQMD Regulation 9-8-503 | Quarterly portable analyzer | S54 Date: 1/16/20 Result: 281 ppm |
| CO | BAAQMD Condition 17901, Part 6 | Y | 2.97 grams/bhp-hr | BAAQMD Condition 17900 Part 14.b | P/ 8760 hrs. | S54 Date: 12/5/19 Result: 2.74 g/bhp-hr Hours: 1900 |
| CO | BAAQMD Condition 17901 Part 9 | Y | 119.4 tons/yr | BAAQMD Condition 17901 Part 15 | P/D & P/M | S54 Date: 2/29/20 Result: 79.1 tons/yr |
| NMHC | BAAQMD Condition 17901 Part 7a | Y | 0.72 grams/bhp-hr | BAAQMD Condition 17901 Part 14c | P/ 8760 hrs. | S54 Date: 12/5/19 Result: 0.24 g/bhp-hr Hours: 1900 |
| NMHC | BAAQMD Condition 17901 Part 7b. | Y | 108 ppm for Landfill gas @ 3% O2 dry | BAAQMD Condition 17901 Part 14c | P/ 8760 hrs. | S54 Date: Result: *Note: Landfill gas was not combusted during the reporting period* |

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**
**Table VII— H (cont.)**

**Applicable Limits and Compliance Monitoring Requirements**

**S-54, Engine Generator, 12 - Cylinder Turbocharged LSVB, Plt EG1**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| NMHC | BAAQMD Condition 17901 Part 9 | Y | 28.9 tons/yr | BAAQMD Condition 17901 Part 15 | P/D & P/M | S54 Date: 2/29/20 Result: 11.1 tons/yr |
| Heat Input | BAAQMD Condition 17901 Part 2 | Y | Not to exceed S54: 763 MM Btu/per day | BAAQMD Condition 17901 Part 15 | P/M | S54 Date: 2/1/20 Result: 600 MMBtu/day (Max.) |
| Key Parameter | BAAQMD Regulation 8-34-509 | Y | Cylinder Temperature >600 degrees F | BAAQMD Condition 17901 Part 13a | Continuous | S54 Date: Result: *Note: Landfill gas was not combusted during the reporting period* |
| Gas Flow | BAAQMD Regulation 8-34-508 | Y | Record Every 5 Minutes | BAAQMD Condition 17901 Part 12a | P/15 minutes | S54 Recorded every 5 minutes |
| $SO_2$ | BAAQMD Regulation 9-1-302 | Y | 300 ppmv outlet $SO_2$ 350 ppmv TRS digester gas | BAAQMD Condition 17741, Part 4 | P/W | S210 Date: 9/12/19 Result: 291 ppm |
| $SO_2$ | BAAQMD Condition 17901 Part 9 | Y | 7.2 tons/yr | BAAQMD Condition 17901 Part 15 | P/D & P/M | S54 Date: 2/29/20 Result: 1.8 tons/yr |
| Diesel Sulfur Content | BAAQMD condition 17901 Part 4 | Y | 0.0015% by weight | BAAQMD Condition 17901 Part 4 | P/E | CARB dyed 15 ppm sulfur verified on delivery receipt |
| Heat Input | BAAQMD Regulation 9-8-306 | N | Use of diesel for less than 5% of fuel input | BAAQMD Regulation 9-8-502.2 | P/M | Result: Diesel fuel input average 1.6 % of heat input for this compliance period. |
| Heat Input | 40 CFR 63.6675 | Y | Use of diesel for less than 2% of fuel input (to be considered spark ignition) | BAAQMD Regulation 9-8-502.2 | P/M | Result: Diesel fuel input average 1.6 % of heat input for this compliance period. |
| Heat Input | BAAQMD Condition 17901, Part 1 | Y | 27,000 gal/yr diesel fuel | BAAQMD Condition 17901, Part 15 | P/M | S54 Date: 2/29/20 Result: 22.2 thous. gal/yr |
| FP | BAAQMD Condition 17901 Part 8 | Y | 0.068 grams/bhp-hr | BAAQMD Condition 17901, Part 14.b | P/A | S54 Date: 12/5/19 Result: 0.012 g/bhp-hr Hours: 1900 Note: |
| FP | BAAQMD Condition 17901 Part 9 | Y | 3.1 tons/yr | BAAQMD Condition 17901, Part 15 | P/D & P/M | S54 Date: 2/29/20 Result: 0.2 tons/yr |

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**

**Table VII— I**

**Applicable Limits and Compliance Monitoring Requirements**

**S-55, IC Engine Bldg. 40 500 KW** **Power and Air**
**S-56, IC Engine Bldg. CL 250 KW** **Power and Air**
**S-57, IC Engine P&E, 500 KW** **Power and Air**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| Reliability-Related Hours | BAAQMD Condition 22820 Part 1 | N | 20 hrs./yr | BAAQMD Condition 22820 Parts 3 & 4 | P/M | S55 Date: 2/29/20 Result: 0.0 hrs./yr<br>S56 Date: 2/29/20 Result: 5.0 hrs./yr<br>S57 Date: 2/29/20 Result: 0.0 hrs./yr<br>*Note: S57 went out of service starting on January 2017; S55 went out of service starting on March 2017.* |

**Table VII— J**

**Applicable Limits and Compliance Monitoring Requirements**

**S-66, S-222, S-223, S-224, S-225 - Emergency IC Generators, Diesel**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| Reliability-Related Hours | BAAQMD Condition 22850 Part 1 | N | 50 hrs./yr | BAAQMD Condition 22850 Parts 3 & 4 | P/M | S66 Date: 2/29/20 Result: 1.7 hrs./yr<br>S222 Date: 2/29/20 Result: 24.8 hrs./yr<br>S223 Date: 2/29/20 Result: 25.5 hrs./yr<br>S224 Date: 2/29/20 Result: 13.1 hrs./yr<br>S225 Date: 2/29/20 Result: 16.3 hrs./yr |

**Table VII— K**

**Applicable Limits and Compliance Monitoring Requirements**

**S-100, Municipal wastewater Treatment Plant**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| Wastewater Throughput | BAAQMD Condition 17740 Part 1 | Y | 167 MGD design<br>360 MGD peak wet | BAAQMD Condition 17740 Part 2 | P/W | S100 Date: 12/8/19 Max Flow: 114 MGD<br>*Note:* |

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT**
**SAN JOSE CA BAAQMD PERMIT #778**
**SEMI-ANNUAL MONITORING REPORT**
**REPORTING PERIOD: 9/1/2019 -- 2/29/2020**

**annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)**

**Table VII— L**

**Applicable Limits and Compliance Monitoring Requirements**

**S-210, Anaerobic Digesters**

| Type of Limit | Citation for Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | RESULTS |
|---|---|---|---|---|---|---|
| Flare Throughput | BAAQMD Condition 17741, Part 2.a.ii.3 | | 74,200 Mscf/12-months | BAAQMD Condition 17741, Parts 6 & 20 | P/M | A405 Date: 2/29/20 Result: 23,168 kscf<br>A406 |
| Digester Gas Sulfur Content | BAAQMD Condition 17741, Part 3a | Y | 350 ppm | BAAQMD Condition 17741 Part 5 | P/W | S210 Date: 9/12/19 Result: 291 ppm |
| $SO_2$ | BAAQMD Condition 17741, Part 4 | | 12.722 tons/year $SO_2$<br>742,000 Mscf production | BAAQMD Condition 17741 Part 5 | P/M | S-210 Date: Result:<br>*Note: not applicable until after startup of thermophilic digester operation* |
| $H_2S$ | BAAQMD Condition 17741, Part 8 | | 1.22 lb/hr $H_2S$ | BAAQMD Condition 17741 Part 7 | C | Date: 9/1/19 - 2/29/20: No controlled DG venting events were recorded for this period.<br>*Note: PRV monitoring not applicable until after startup of thermophilic digester operation* |