

**Major Facility Review (Title V)
Semi-Annual Monitoring Report**

for

**East Bay Municipal Utility District
Main Wastewater Treatment Plant
Facility #A0591**

Reporting Period: July - December 2012

Source	Monitoring Requirement	Limit	Monitoring Results
S-48 Gasoline Dispensing Facility	Condition 25107 The Static Pressure Performance Test (Leak Test) ST-38 shall be successfully conducted at least once in each twelve consecutive month period.		Completed on 9/18/12. Refer to Attachment 4 for test results.
	Condition 21663 Annual gasoline throughput	334,000 gal per year	Condition met. Refer to Attachment 5 for gasoline throughput table.
S-49 Diesel Engine Back-up Generator	Condition 19058 (BAAQMD permit) 4. Diesel fuel – sulfur content	<0.5% by weight	See Attachment 6 for sulfur content on diesel deliveries in period – but the generator was not used in this time period.
	5. Hours of operation		Generator not used July-Dec 2012. Refer to Attachment 7.
S-50 Diesel Engine Back-up Generator	Condition 22830 1. Hours of operation	30 hours/year reliability-related hours	Generator reliability-related hours are less than permit limit. Refer to Attachment 7.
S-51 Diesel Engine Back-up Generator	Condition 22850 1. Hours of operation	50 hours/year reliability-related hours	Generator reliability-related hours are less than permit limit. Refer to Attachment 7.
S-52 Diesel Engine Back-up Generator	Condition 22820 1. Hours of operation.	20 hours/year reliability-related hours	Generator reliability-related hours are less than permit limit. Refer to Attachment 7.
	Condition 19184 (BAAQMD permit) 2. Diesel fuel – sulfur content		
S-53 Diesel Engine Back-up Generator	Condition 22830 1. Hours of operation	30 hours/year reliability-related hours	Generator reliability-related hours are less than permit limit. Refer to Attachment 7.
S-54 Diesel Engine Back-up Generator	Condition 22850 1. Hours of operation	50 hours/year reliability-related hours	Generator reliability-related hours are less than permit limit. Refer to Attachment 7.

Source	Monitoring Requirement	Limit	Monitoring Results
S-56 Turbine	<p>Condition 24050</p> <p>2. Total combined heat input</p> <p>3. NOx emission limit</p> <p>4. CO emission limit</p> <p>5. SO2 emission limit</p> <p>7. Annual turbine source test</p> <p>8. Monthly NOx and CO test</p>	<p>389,820 MMBtu in any 12-month period</p> <p>23 ppm (15-min)</p> <p>100 ppm (15-min)</p> <p>150 ppmv</p>	<p>Condition met. See Attachment 3 for July-Dec summary.</p> <p>Last source test results in compliance with these limits. Refer to Attachment 8 for January 9, 2013 results.</p> <p>December test missed and made up January 9, 2013.</p> <p>Test completed during months when turbine was in use. Refer to Attachment 8 for monthly test results. Note that turbine was down for repairs during three testing months.</p>
S-100 Municipal Wastewater Treatment Plant	<p>Condition 21759</p> <p>1. Total wastewater flow</p>	<p>120 MGD monthly dry weather average</p> <p>325 MGD monthly wet weather average</p>	<p>Condition met. See Attachment 9 showing flow rates below these levels in period.</p>
S-110 Headworks A-461 & A-462 Carbon Bed Scrubbers	<p>Condition 17335</p> <p>3. Inlet and outlet H2S concentrations of carbon beds, as well as any other appropriate operating parameters shall be continuously monitored and reviewed on a daily basis to determine when carbon adsorption bed breakthrough is imminent or has been reached.</p>		<p>Monitoring results for the carbon beds are in Attachment 10. Maintenance records on the carbon beds are in Attachment 11.</p>
S-170 Sludge handling	<p>Condition 18006</p> <p>1. Monitor and record on a daily basis the activated sewage sludge throughput through S-170.</p>		<p>Activated sludge throughput data are in Attachment 12. Maintenance records are in Attachment 11.</p>

Source	Monitoring Requirement	Limit	Monitoring Results
S-180 Anaerobic Digesters	Condition 18860		
	2. Monthly inspection of digesters		Inspections conducted by Operations. Gas releases noted in reporting period are listed on cover letter for July-Dec 2012.
	3. Sulfur content of digester gas	< 340 ppmv	Condition met.
	4. Weekly sampling and testing of digester gas for H2S		Digester gas sampling results from July-Dec 2012 are in Attachment 13.
	5. Hours of flaring per day		Recorded in Attachment 14 – Flare Use Air Permit Data.

Attachment Index:

- 1 Engine and Boiler Air Permit Data
- 2 Boiler Source Test Results
- 3 Cogeneration Engines and Turbine Power/Equipment Summary
- 4 The Static Pressure Performance Test (Leak Test) ST-38 Results
- 5 Gasoline Facility Throughput
- 6 Diesel Deliveries with Sulfur Content Certifications
- 7 Hours of Operation for Stand-by Emergency Generators
- 8 Turbine Source Test and Monthly Test Results
- 9 Monthly/Annual Wastewater Summary 2012
- 10 IPS Carbon Bed Inlet/Outlet H2S Readings
- 11 Odor Scrubber Maintenance Records for S-170 and S-110
- 12 Activated Sludge Throughput for S-170
- 13 Digester Gas H2S Sampling
- 14 Flare Use Air Permit Data