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

for

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

Reporting Period: January 1, 2012 through June 30, 2012

Source	Monitoring Requirement	Limit	Monitoring Results
S-55 Boiler	Condition # 18860		:
	2. Shall not operate S-55 hot water boiler simultaneously with more than two of the three cogeneration engines.		Boiler was never operated simultaneously with more than two engines. See Table 2 attached.
[3. Boiler Gross Heat input shall not exceed 20.41 MMB@/hr	:	Maximum calculated input was 13 MMBtu/hr
	19. Annual performance test for these limits:	:	Boiler was source tested on November 22, 2011.
	5. Emissions limits	NOx 30 ppm CO 50 ppm	Results were in compliance with permit limits and are included with this report.
	16. Weekly fuel gas munitoring for sulfur content	H2S 340 ppm	Daily sampling conducted using Portable Instrument. See Table 2 attached.
	18. Recordkeaping		
S-37, S-38, S-39 Cogeneration Engines	Condition # 18860 4. Sulfur content of digester gas	< 340 ppniv	Daily sampling conducted using Portable Instrument.
	Weekly sampling and testing of digester gas for H2S		

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	<u></u>	See Table 2 attached.
18. Recordkeeping		
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	Candition # 18860		
	18. Maintain daily records of hours of engine operation, diesel and gas enasumption to verify compliance with:		Engine operational records are attached as Table 3.
	13. Thermal throughput	25 MMBtu∕lu	The measured volumes based on an estimated HHV digester gas had a maximum of 23.5 MMBtu based on revised throughput estimates. EBMUD's measured high heat value by BAAQMD value was 15.2 MMBtu/hr.
	14. Hours of operation	26,280 hours in 365-day period	Total of 4'757 hours from Jan 1, 2012 to Jun 30, 2012, and 13,740 hours over the last 365 days.
	15. Diesel consumption	150,000 gal in 365-day period	Total for Jan - June 2012 was 11,754 gallons Total for June - Dec 2010 was 23,809 gullons.
	Condition # 20651		1
	17. Sulfur content of diesel fuel	CARB diesel	All diesel fuel met CARB standards. Vendor certifications included as
	Certification statement by vendor		Attachment A,
	Condition # 18860	į	
	19. Annual performance test for these limits:		S-37: Source tested by Blue Sky Environmental on 5/1/12.
	10. NOx emissions 11. OO emissions	140 ppmv 2000 ppinv	S-39: Source tested by Blue Sky Environmental on 5/4/12. S-38: Source tested by Blue Sky Environmental on 5/4/12.
			All results were within permit limits. Attachment 8.

Source	Munitoring Requirement	Limit	Monitoring Results
5-38 Cogeneration Engine	Condition # 18860 19. Annual performance test for these limits:		S-38: Blue Sky Environmental on 5/4/12. All results were within permit limits.
	NOx emissions CO emissions POC emissions POC emissions PM emissions	1.25 g/bhp-hr 3.0 g/bhp-hr 0.6 g/bhp-hr 0.085 g/blip-hr	Attachment B.
	Condition # 18860 16. Weekly fuel gas monitoring for sulfur content	340 ppmv	Daily sampling conducted using Portable Instrument.
S-48 Gasoline Dispensing Facility	Candition # 16516 The Static Pressure Performance Test (Leak Test) ST-38 shall be successfully conducted at least once in each twelve consecutive month period.		Source test performed on 9/24/11.
	Condition # 21663 Annual gasoline throughput	334,000 gal per year	See Table 8 attached. Throughput limits were met with 30,356 gullons used over the last 12 months.
S-49 Portable Stand-by Generator	Condition #19058 4. Diesel sulfur content	0.5%	All diesel fuel met CARB standards. Vendor certifications included as Attachment A.
	7. Hours of operation logged.	72 hours within 1000 feet of school	See Table 4 attached.
S-50 Stand-by Generator	Condition #22830 L. Hours of operation	30 hours per year reliability- related testing	See Table 4 attached. Limus on hours were met.
S-51 Stand-by Generator	Condition #22850 1. Hours of operation	50 hours per year reliability- related testing	See Table 4 attached. Limits on hours were met.

Source	Monitoring Requirement	Limit	Monitoring Results
S-52 Stationary Stand-by Generator	Condition #19184 4. Diesel sulfur content	0.5%	All diesel fuel met CARB standards. Vendor certifications included as Attachment A.
	8. Hours of operation logged.	72 hours within 1000 feet of school	See Table 4 attached.
8-53	Condition #22830		10.00
Stand-by Generator	1. Hours of operation	30 hours per year reliability- related testing	See Table 4 attacked. Limits on hours were met.
S-54	Condition #22850		
Stoud-by Generator	1. Hours of operation	50 hours per year rehability- related testing	See Table 4 attached. Limits on hours were med
S-56 Turbine	Condition #24050 2. 389,820 MM Btu yr 3. Annual Testing for NOx 4. Annual Testing for CO 5. Abrual Testing for SO2 8. Monthly Monitoring	23 ppm 100 ppm 100 ppm	S-56 Source tested by Blue Sky Env on 12/15/11. Total MMBTU from 1/1/12 to 6/30/12 was 145,195 MMBTU All results were within
0.140	O	 	permut firmits.
S-100 Municipal Wastewater Treatment Plant	Condition #22850 Total wastewater flow	120 MGD monthly avg. (330 MGD in wet weather)	See Annual Summary from Self-Monitoring Reports submitted to Regional Water Board, included as Attachment C. Limits were met with a 71 MGD monthly average.
S-110	Condition #17335		İ
Headworks A-461 and A-462 Carbon Bed Scrubbers	3. Inlet and outlet H2S concentrations, us 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.		See Table 5 attached.

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Source	Monitoring Requirement	Límit	Monitoring Results
S-170 Studge-	Condition #18006		
hondling	 Monitor and record on a daily basis the activated sewage sludge throughput through S-170. 		See Table 6 attached.
S-180	Condition #18860		
Anscrobic Digesters	2. Monthly digester visual inspection		See Table 7 artached.
	4. Digester Gas sulfide content	340 ррт	Daily sampling conducted using Portable Instrument,
	5. Hours of flaring per day		See Attachment D