

DOCKETED	
Docket Number:	09-AFC-03C
Project Title:	MARIPOSA ENERGY PROJECT - Compliance
TN #:	237409
Document Title:	QUARTERLY COMPLIANCE REPORT- Q2 2020
Description:	QUARTERLY COMPLIANCE REPORT- Q2 2020
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Organization:	Mariposa Energy LLC
Submitter Role:	Commission Staff
Submission Date:	4/9/2021 3:32:08 PM
Docketed Date:	4/9/2021

Mariposa Energy, LLC

Quarterly Compliance Report

Quarter Ending June 30, 2020

Mariposa Energy, LLC

Quarterly Compliance Report

Quarter Ending June 30, 2020

This report documents compliance with the California Energy Commission's Conditions of Certification AQ-SC8 and Bay Area Air Quality Management District Permit condition 24955

Attached are summaries of relevant permit conditions and compliance status as well as the required documentation.

Attachment 1: Compliance Summary

Attachment 2: Condition AQ-11 Monthly Natural Gas Fuel Analyses

Attachment 3: Condition AQ-12/13 Heat Input Limits: 1-hr & Daily Maximums for all CTGs Report

Attachment 4: Condition AQ-14 Heat Input Limit: Rolling 12-Month combined CTG Heat Input Report

Attachment 5: Condition AQ-15a/b Operating Hour Limits: Rolling 12-Month Individual and Combined CTG Hours Report

Attachment 6: Condition AQ-16 SCR/Oxidation Catalyst Operation Report

Attachment 7: Condition AQ-17a/b NO_x Emission Limits: Hourly mass rate and hourly average concentration Report

Attachment 8: Condition AQ-17c/d CO Emission Limits: Hourly Mass Rate/Rolling 3-Hr Concentration Report

Attachment 9: Condition AQ-17e NH₃ Emission Limits: Rolling 3-Hr Slip Calculation Report

Attachment 10: Condition AQ-17f/g Hourly Mass Emission Limits: POC & SO₂ Report

Attachment 11: Condition AQ-18 Startup and Shutdown Emission Limits Report

Attachment 12: Condition AQ-19 Daily Emission Limits: NO_x, CO, POC, SO₂ Emissions Report

Attachment 13: Condition AQ-20 Cumulative Rolling 12-month CTG Emissions: NO_x, CO, POC, PM₁₀, SO₂ Emissions Report

Attachment 14: Condition AQ-31 Facility SAM 12-month Tons Limit Emissions Report

Attachment 15: Condition AQ-35 Timely Notification of Permit Condition Violations Report

Attachment 16: Condition AQ-38 40 CFR Part 72.9(c)(1) SO₂ Allowances and 40 CFR Part 75 CEM Requirements Report

Attachment 17: Conditions AQ-39, AQ-40 S-6 Emergency Fire Pump Operation Report (BAAQMD Condition 24955, parts 1 & 2)

Attachment 18: Condition AQ-41 S-6 Emergency Fire Pump Totalizing Meter Report (BAAQMD Condition 22850, part 3)

Attachment 1

Compliance Summary

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-11	Fire the Gas Turbines (S-1, S-2, S-3, and S-4) exclusively on PUC-regulated natural gas with a maximum sulfur content of 1 grain per 100 standard cubic feet.	1 grain sulfur per 100 scf. The result of the natural gas fuel sulfur monitoring data and other fuel sulfur content data to be submitted to District and CPM in the Quarterly Report.	<u>Sulfur Content</u> (gr/100 scf) April 2020: 0.14 May 2020: 0.11 June 2020: 0.20 In Compliance	Attachment 2
AQ-12	Hourly Heat input rate to each Gas Turbine (S-1, S-2, S-3, and S-4).	500 MMBtu (HHV)/hr per turbine.	<u>Maximum MMBtu/hr</u> S-1: 453 S-2: 443 S-3: 453 S-4: 447 In Compliance	Attachment 3
AQ-13	Daily heat input rate to each Gas Turbine (S-1, S-2, S-3, and S-4).	11,544 MMBtu (HHV)/day per turbine.	<u>Maximum MMBtu/day</u> S-1: 5,317 S-2: 5,124 S-3: 4,607 S-4: 3,155 In Compliance	Attachment 3
AQ-14	Combined annual cumulative heat input rate for the gas turbines (S-1 + S-2 + S-3 + S-4).	8,128,900 MMBtu (HHV) per year (combined cumulative).	<u>MMBTU/yr (12-mo)</u> Ending 04/2020: 973,898 Ending 05/2020: 996,545 Ending 06/2020: 1,011,155 In Compliance	Attachment 4
AQ-15a	Maximum annual hours of operation per turbine.	5,200 hours per year per turbine.	<u>Maximum Hr/yr</u> S-1: 901 (06/2020) S-2: 897 (06/2020) S-3: 889 (06/2020) S-4: 867 (06/2020) In Compliance	Attachment 5
AQ-15b	Combined annual hours of operation for the gas turbines (S-1 + S-2 + S-3 + S-4).	16,900 hours per year total – four units combined turbine hours of operation.	<u>Combined Hours/yr</u> 12 mo Ending 04/20: 3,410 12 mo Ending 05/20: 3,486 12 mo Ending 06/20: 3,554 In Compliance	Attachment 5

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-16	The owner/operator shall ensure that each Gas Turbine (S-1, S-2, S-3, S-4) is abated by the properly operated and properly maintained Selective Catalytic Reduction (SCR) System A-2, A-4, A-6, or A-8 and Oxidation Catalyst System A-1, A-3, A-5, or A-7 whenever fuel is combusted at those sources and the corresponding SCR catalyst bed (A-2, A-4, A-6 or A-8) has reached minimum operating temperature.	The owner/operator shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request. A summary of significant operation and maintenance events and monitoring records shall be included in the quarterly operation report.	In Compliance	Attachment 6
AQ-17	The owner/operator shall ensure that the Gas Turbines (S-1, S-2, S-3, S-4) comply with requirements (a) through (i). Requirements (a) through (f) do not apply during a gas turbine start-up, and shutdown.			
	a. Hourly Nitrogen Oxide mass emissions limit (calculated as NO ₂), per turbine unit basis, after abatement.	4.4 lb/hr maximum (as NO ₂), from each turbine exhaust point, after abatement.	<u>Max NOx lb/hr:</u> S-1: 3.4 S-2: 3.1 S-3: 3.9 S-4: 3.2 In Compliance	Attachment 7
	b. Hourly average Nitrogen Oxide emission concentration limit, per turbine.	2.5 ppmv maximum (as NO ₂), dry, corrected to 15% O ₂ , averaged over any 1-hour period.	<u>Max NOx, ppmvd @ 15%O₂:</u> S-1: 2.1 S-2: 2.1 S-3: 2.4 S-4: 2.1 In Compliance	Attachment 7
	c. Hourly Carbon Monoxide mass emissions limit, per turbine basis, after abatement.	2.14 lb/hr CO maximum, from each turbine exhaust point.	<u>Max CO lb/hr:</u> S-1: 1.88 S-2: 1.80 S-3: 1.93 S-4: 1.84 In Compliance	Attachment 8
	d. Rolling 3-hour average Carbon Monoxide emission concentration per turbine basis, after abatement.	2.0 ppmv CO (maximum), dry, corrected to 15% O ₂ , averaged over any rolling 3-hour period.	<u>Max CO, ppmvd @ 15% O₂:</u> S-1: 1.8 S-2: 1.7 S-3: 1.8 S-4: 1.8 In Compliance	Attachment 8

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-17 cont'd	e. Rolling 3-hour average Ammonia (NH ₃) emission concentrations, per turbine unit basis, after abatement systems.	5 ppmv, dry, corrected to 15% O ₂ , averaged over any rolling 3-hour period. Verified by the continuous recording of the ammonia injection rate to each SCR System A-2, A-4, A-6, and A-8. The correlation between the gas turbine heat input rates, A-2, A-4, A-6, and A-8 SCR System ammonia injection rates, and corresponding ammonia emission concentration at emission points P-1, P-2, P-3 and P-4 shall be determined in accordance with AQ-25 or a District approved alternative method.	<u>Max NH₃, ppmvd @ 15% O₂:</u> S-1: 5 S-2: 4 S-3: 3 S-4: 3 In Compliance	Attachment 9
	f. Hourly Precursor Organic Compound (POC) mass emissions limit (as CH ₄), per turbine unit basis.	0.612 lb/hr maximum (as CH ₄), from each turbine exhaust point.	<u>Max POC lb/hr:</u> S-1: 0.027 S-2: 0.031 S-3: 0.045 S-4: 0.027 In Compliance	Attachment 10
	g. Hourly Sulfur dioxide (SO ₂) mass emissions limit, per turbine unit basis, after abatement.	1.347 lb/hr maximum (as SO ₂) from each turbine exhaust point.	<u>Max SO₂ lb/hr:</u> S-1: 0.273 S-2: 0.178 S-3: 0.227 S-4: 0.135 In Compliance	Attachment 10
AQ-18	Maximum startup emissions of NO _x (as NO ₂), CO, and POC (as CH ₄) (lb/startup).	NO _x (NO ₂): 14.2 lb/startup	<u>Max NO_x Startup Emissions, lb</u> S-1: 11.7 S-2: 10.1 S-3: 9.9 S-4: 9.9 In Compliance	Attachment 11

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-18 cont'd		CO: 14.1 lb/startup	<u>Max CO Startup Emissions, lb</u> S-1: 2.1 S-2: 2.7 S-3: 1.4 S-4: 2.0 In Compliance	Attachment 11
		POC (as CH ₄): 1.1 lb/startup	<u>Max POC Startup Emissions, lb</u> S-1: 0.0 S-2: 0.0 S-3: 0.0 S-4: 0.0 In Compliance	Attachment 11
	Maximum hourly emissions of NO _x (as NO ₂), CO, and POC (as CH ₄) <u>with startup</u> .	NO _x (NO ₂): 18.5 lb/hour	<u>Max NO_x Emissions, lb/hr</u> S-1: 10.2 S-2: 10.7 S-3: 10.1 S-4: 10.4 In Compliance	Attachment 11
		CO: 17.3 lb/hour	<u>Max CO Emissions, lb/hr</u> S-1: 2.3 S-2: 2.8 S-3: 1.9 S-4: 2.1 In Compliance	Attachment 11
		POC (as CH ₄): 1.4 lb/hour	<u>Max POC Emissions lb/hr</u> S-1: 0.03 S-2: 0.03 S-3: 0.05 S-4: 0.03 In Compliance	Attachment 11

Mariposa Energy, LLC
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Condition	Condition Description	Verification or Limit	Status	Section
AQ-18 cont'd	Maximum shutdown emissions of NOx (as NO2), CO, and POC (as CH4) (lb/shutdown).	NOx (NO2): 3.2 lb/shutdown	<u>Max Shutdown Emissions, lb</u> S-1: 1.4 S-2: 1.3 S-3: 1.7 S-4: 1.6 In Compliance	Attachment 11
		CO: 2.7 lb/shutdown	<u>Max Shutdown Emissions, lb</u> S-1: 0.3 S-2: 1.2 S-3: 0.3 S-4: 0.2 In Compliance	Attachment 11
		POC (as CH4): 0.12 lb/shutdown	<u>Max Shutdown Emissions lb</u> S-1: 0.00 S-2: 0.01 S-3: 0.00 S-4: 0.00 In Compliance	Attachment 11
AQ-19	Calendar day Cumulative combined emission limits from the Gas Turbines (S-1 + S-2 + S-3 + S-4), including emissions generated during gas turbine start-ups, shutdowns and testing.			
	a. Maximum daily NOx (as NO2) emissions.	NOx (as NO2): 1100 lb/day	Max lb/day NOx: 104	Attachment 12
	b. Maximum daily CO emissions.	CO: 934 lb/day	Max lb/day CO: 43	
	c. Maximum daily POC emissions.	POC (as CH4): 95 lb/day	Max lb/day POC: 1	
	d. Maximum daily SO2 emissions.	SO2: 130 lb/day	Max lb/day SO2: 5 In Compliance	
AQ-20	Cumulative combined annual (any consecutive twelve-month period) emissions from the Gas Turbines (S-1 + S-2 + S-3 + S-4):			Attachment 13
	a. Maximum annual NOx (as NO2) emissions.	NOx (as NO2): 45.6 ton/year	<u>Cumulative Ton/Yr</u> Ending 04/30/2020: 7.3 Ending 05/31/2020: 7.3 Ending 06/30/2020: 7.4 In Compliance	

Mariposa Energy, LLC
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COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-20 cont'd	b. Maximum annual CO emissions.	CO: 27.2 ton/year	Ending 04/30/2020: 2.3 Ending 05/31/2020: 2.3 Ending 06/30/2020: 2.4 In Compliance	Attachment 13
	c. Maximum annual POC (as CH ₄) emissions.	POC (as CH ₄): 5.6 ton/year	Ending 04/30/2020: 0.0 Ending 05/31/2020: 0.0 Ending 06/30/2020: 0.0 In Compliance	Attachment 13
	d. Maximum annual PM10 emissions. Emissions of PM10 from each gas turbine shall be calculated by multiplying turbine fuel usage times an emission factor determined by source testing of the turbine conducted in accordance with Part 26. The emission factor for each turbine shall be based on the average of the emissions rates observed during the 4 most recent source tests on that turbine (or, prior to the completion of 4 source tests on a turbine, on the average of the emission rates observed during all source tests on the turbine).	PM10: 18.6 ton/year	Ending 04/30/2020: 0.7 Ending 05/31/2020: 0.7 Ending 06/30/2020: 0.7 In Compliance	Attachment 13
	e. Maximum annual SO ₂ emissions.	SO ₂ : 2.9 ton/year	Ending 04/30/2020: 0.2 Ending 05/31/2020: 0.2 Ending 06/30/2020: 0.2 In Compliance	Attachment 13
AQ-31	Cumulative combined annual Sulfuric Acid Mist (SAM) emissions. (Any consecutive 12-month period) emissions from the gas turbines (S-1 + S-2 + S-3 + S-4).	7.0-ton Sulfuric Acid Mist in any consecutive 12-month.	<u>Cumulative Ton/Year</u> Ending 04/30/2020: 0.29 Ending 05/31/2020: 0.30 Ending 06/30/2020: 0.30 In Compliance	Attachment 14

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-35	The owner/operator of the MEP shall notify the District and the CEC CPM of any violations of these permit conditions. Notification shall be submitted in a timely manner, in accordance with all applicable District Rules, Regulations, and the Manual of Procedures. Notwithstanding the notification and reporting requirements given in any District Rule, Regulation, or the Manual of Procedures, the owner/operator shall submit written notification (facsimile is acceptable) to the Enforcement Division within 96 hours of the violation of any permit condition.	A summary of significant operation and maintenance events and monitoring records shall be included in the quarterly operation report.	There were no violations of any permit conditions requiring District and CEC notification during the 1 st Quarter of 2020 In Compliance	Attachment 15
AQ-38	The owner/operator shall ensure that the MEP complies with the requirement to hold SO ₂ allowances in 40 CFR 72.9c(1) and the continuous emission monitoring requirements of 40 CFR Part 75.	The project owner shall submit to the CPM and District the results of audits of the monitoring system demonstrating compliance with this condition as part of the quarterly operation report.	Attachment 16 provides the CAMD Balance Report (2/03/2015) for SO ₂ allowances as well as the 1Q 2020 Monthly CEMS Reports summary pages as submitted to BAAQMD. In Compliance	Attachment 16
AQ-39	Cumulative combined annual (any consecutive twelve-month period) operating hours for reliability-related testing of S-6 Emergency Standby Diesel Fire Pump Engine:			
	The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing.	A summary of significant operation and maintenance events and monitoring records shall be included in the quarterly operation report.	Ending 04/30/2020: 26.2 Ending 05/31/2020: 26.4 Ending 06/30/2020: 26.9 In Compliance	Attachment 17

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-40	S-6 Emergency Standby Diesel Fire Pump Engine cumulative combined annual (any consecutive twelve-month period) total operating hours, including mitigation of emergency conditions, emissions and reliability testing:			
	The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State, or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operation while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emissions limits is not limited.	A summary of significant operation and maintenance events and monitoring records shall be included in the quarterly operation report.	S-6 <u>12-Mo Hrs Ending 04/30/20:</u> Total Hrs Operated: 26.2 Hrs Op as allowed: 26.2 <u>12-Mo Hrs Ending 05/31/20:</u> Total Hrs Operated: 26.4 Hrs Op as allowed: 26.4 <u>12-Mo Hrs Ending 06/30/20:</u> Total Hrs Operated: 26.9 Hrs Op as allowed: 26.9 In Compliance	Attachment 17
AQ-41	S-6 Emergency Standby Diesel Fire Pump Engine Non-Resettable Totalizing Hour Meter			
	The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engines is installed, operated and properly maintained.	The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission. The project owner shall include a photograph of each totalizing meter in the quarterly operation report.	A photograph of each totalizing meter is included in the quarterly compliance report. In Compliance	Attachment 18

Attachment 2

Monthly Natural Gas Fuel Analysis



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

April 14, 2020

Kevin Kringle
Mariposa Energy Project
4887 Bruns Rd
Byron, CA 94514

TEL: (209) 830-1401
FAX:

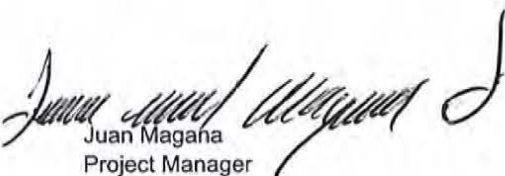
Project ID:
RE: 2004046

Dear Kevin Kringle:

Zalco Laboratories, Inc. received 1 samples on 4/7/2020 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future . Please feel free to call our office if you have any questions regarding these test results.

Sincerely,



Juan Magana
Project Manager

CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic
Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C.
Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

**ZALCO LABORATORIES, INC.**

4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 www.zalcolabs.com
 2186 Eastman Avenue, Suite 103, Ventura, CA 93003 (805) 477-0114 Fax (805) 477-0125

Mariposa Energy Project
4887 Bruns Rd
Byron CA 94514

Laboratory No: 2004046-01
Date Received: 04/07/20
Date Analyzed: 04/08/20
Date Completed: 4/14/20 10:03 AM

Attention: Kevin Kringle

Sample Description: Fuel Gas Sample
 Sampled: 4/6/2020 @ 7:32:00 AM by Kevin Kringle

Chromatographic Analysis, ASTM D-1945-03, ASTM D-3246-15

Constituent:	Result	Units
Sulfur	0.14	grs S/100 SCF
Total Sulfur	2.40	ppmv

Chromatographic Analysis, ASTM D-1945-03, ASTM D-3588-98, GPA 2145-16, ASTM D-3246-15

Constituent:	Mole %	Weight %	GPM	GPM Fractions	CHONS%
Oxygen	0.086	0.159	(Gallons per		Carbon, C
Nitrogen	0.762	1.238	1000.000		73.17
Hydrogen	0.000	0.000	cubic feet)		Hydrogen, H
Carbon Dioxide	0.970	2.474			23.64
Carbon Monoxide	0.000	0.000			
Hydrogen Sulfide	0.000	0.000			Oxygen, O
Methane	92.734	86.220			1.96
Ethane	5.048	8.797			
Propane	0.314	0.802	0.086	(C3....C3) = 0.086	Nitrogen, N
IsoButane	0.026	0.088	0.009		1.24
n-Butane	0.039	0.133	0.012	(C3....C4) = 0.107	
IsoPentane	0.009	0.037	0.003		Sulfur, S
n-Pentane	0.008	0.034	0.003	(C3....C5) = 0.113	0.00
Hexanes +	0.004	0.019	0.002	(C3....C6+) = 0.115	
Totals:	100.00	100.00	0.115	0.422	100.00

Flammable Gases:	98.182
Gas Properties calculated @ STP: degrees F.	60
Measurement Base Pressure @ STP: psia	14.696
	H/C Ratio: 0.32

Gas State	Dry Btu / Cu. Ft	Btu / lb	Wet Btu / Cu. Ft
Gross, Ideal Gas	1036.83	22803.00	1018.79
Net, Ideal Gas	935.06	20564.54	918.79
Gross, Real Gas	1039.16		1021.08
Net, Real Gas	937.16		920.86

Relative Gas Density; [Air=1] Ideal:	0.5958	"F" Factor, DSCF/MMBtu @ 60F	8521	9448.4
Specific Gravity, [Air=1] Real gas:	0.5966	"F" Factor, DSCF/MMBtu @ 68F	8651	9592.2
Real Gas Density, Lb/Cu.Ft.:	0.0456	"F" Factor, DSCF/MMBtu @ 70F	8683	9628.7
Specific Volume, Cu.Ft./Lb:	21.9433	"FC" Factor, DSCF CO2/MMBtu @ 60F	1014.5	1125.0
Relative Liquid Density @ 60F/60F:	0.3136	"FC" Factor, DSCF CO2/MMBtu @ 68F	1030.0	1142.1
Compressibility, 'z':	0.9978			
Fuel kg per kg-mole Molecular wt avg	17.255			

2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125

CHAIN OF CUSTODY, ID#

Client PO: 13648

Project ID:

Quote ID:

ANALYSIS REQUESTED

2004044

[illegible]

Refiniquished By:	Company	Date	Time	Received By:	Company:
Kevin Kringle	Mariposa Energy Project	4/6/2020	7:39	<i>[Signature]</i> 4/7/2020 1054	Talco

NOTE: Samples Discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Sample Type Key:

Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas
LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water
WW-Wastewater



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

May 11, 2020

Kevin Kringle
Mariposa Energy Project
4887 Bruns Rd
Byron, CA 94514

TEL: (209) 830-1401
FAX:

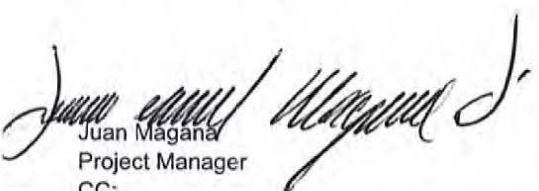
Project ID: Master
RE: 2005022

Dear Kevin Kringle:

Zalco Laboratories, Inc. received 1 samples on 5/5/2020 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,


Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic
Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C.
Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.



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Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Mariposa Energy Project
4887 Bruns Rd
Byron, CA 94514

Project: Master
Project #: Master
Attention: Kevin Kringle

Work Order No.: 2005022
Reported: 05/11/2020
Received: 05/05/2020 10:40

Lab Sample ID: 2005022-01

Collected By: Client

Client Sample ID: Fuel Gas Sampler

Date Collected: 5/4/2020 7:32:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Gas & Air Testing								
Hydrogen sulfide	<1.00	1.00	ppmv		ASTM D6228	5/6/20	5/6/20	MO
Sulfur	0.109	0.060	gr/100 scf		ASTM D3246-11	5/6/20	5/6/20	MO
Total Sulfur/Hydrogen Sulfide by ASTM D3246								
Total Sulfur	1.79	1.00	ppm		ASTM D 3246/M	5/6/20	5/6/20	MO

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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**ZALCO LABORATORIES, INC.**

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2186 Eastman Avenue, Suite 103, Ventura, CA 93003 (805) 477-0114 Fax (805) 477-0125

Mariposa Energy Project**4887 Bruns Rd****Byron****CA 94514****Laboratory No:**

2005022-01

Date Received:

05/05/20

Date Analyzed:

05/06/20

Date Completed:

5/11/20 12:23 PM

Attention:

Kevin Kringle

Sample Description:

Fuel Gas Sampler

Sampled: 5/4/2020 @ 7:32:00 AM by Client

Chromatographic Analysis, ASTM D-1945-14, ASTM D-3246-15

Constituent:	Result	Units
Sulfur	0.11	grs S/100 SCF
Total Sulfur	1.79	ppmv

Chromatographic Analysis, ASTM D-1945-14, ASTM D-3588-98, GPA 2145-16, ASTM D-3246-15

Constituent:	Mole %	Weight %	GPM	GPM Fractions	CHONS%
Oxygen	6.862	10.487	(Gallons per		Carbon, C
Nitrogen	26.530	35.498	1000.000		40.09
Hydrogen	0.000	0.000	cubic feet)		Hydrogen, H
Carbon Dioxide	0.582	1.223			13.03
Carbon Monoxide	0.000	0.000			
Hydrogen Sulfide	0.000	0.000			Oxygen, O
Methane	62.933	48.223			11.38
Ethane	2.941	4.224			
Propane	0.125	0.262	0.034	(C3....C3) = 0.034	Nitrogen, N
IsoButane	0.009	0.025	0.003		35.50
n-Butane	0.012	0.034	0.004	(C3....C4) = 0.041	
IsoPentane	0.003	0.009	0.001		Sulfur, S
n-Pentane	0.002	0.007	0.001	(C3....C5) = 0.043	0.00
Hexanes +	0.002	0.006	0.001	(C3....C6+) = 0.043	
Totals:	100.00	100.00	0.043	0.162	100.00

Flammable Gases:

66.026

Gas Properties calculated @ STP: degrees F.

60

Measurement Base Pressure @ STP: psia

14.696

H/C Ratio: 0.33

Gas State	Dry Btu / Cu. Ft	Btu / lb	Wet Btu / Cu. Ft
Gross, Ideal Gas	691.76	12538.61	679.72
Net, Ideal Gas	623.69	11304.59	612.83
Gross, Real Gas	692.75		680.69
Net, Real Gas	624.58		613.71

Relative Gas Density; [Air=1] Ideal:

0.7229

"F" Factor, DSCF/MMBtu @ 60F

8525

9455.1

Specific Gravity, [Air=1] Real gas:

0.7234

"F" Factor, DSCF/MMBtu @ 68F

8654

9599.1

Real Gas Density, Lb/Cu.Ft.:

0.0552

"F" Factor, DSCF/MMBtu @ 70F

8687

9635.6

Specific Volume, Cu.Ft./Lb:

18.0996

"FC" Factor, DSCF CO2/MMBtu @ 60F

1011.1

1121.4

Relative Liquid Density @ 60F/60F:

0.4390

"FC" Factor, DSCF CO2/MMBtu @ 68F

1026.5

1138.5

Compressibility, 'z':

0.9986

Fuel kg per kg-mole Molecular wt avg

20.936

Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas
LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water
WW-Wastewater



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

June 10, 2020

Kevin Kringle
Mariposa Energy Project
4887 Bruns Rd
Byron, CA 94514

TEL: (209) 830-1401
FAX:

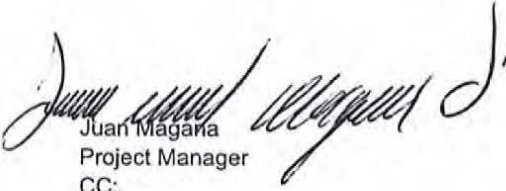
Project ID: Master
RE: 2006035

Dear Kevin Kringle:

Zalco Laboratories, Inc. received 1 samples on 6/3/2020 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future . Please feel free to call our office if you have any questions regarding these test results.

Sincerely,


Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic
Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C.
Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

**ZALCO LABORATORIES, INC.**

4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 www.zalcolabs.com

2186 Eastman Avenue, Suite 103, Ventura, CA 93003 (805) 477-0114 Fax (805) 477-0125

Mariposa Energy Project**4887 Bruns Rd****Byron****CA 94514****Laboratory No:**

2006035-01

Date Received:

06/03/20

Date Analyzed:

06/04/20

Date Completed:

6/9/20 12:54 PM

Attention:

Kevin Kringle

Sample Description:

Fuel Gas Sample

Sampled: 6/2/2020 @ 7:32:00 AM by Kevin Kringle

Chromatographic Analysis, ASTM D-1945-14, ASTM D-3246-15

Constituent:	Result	Units
Sulfur	0.20	grs S/100 SCF
Total Sulfur	3.26	ppmv

Chromatographic Analysis, ASTM D-1945-14, ASTM D-3588-98, GPA 2145-16, ASTM D-3246-15

Constituent:	Mole %	Weight %	GPM	GPM Fractions	CHONS%
Oxygen	0.169	0.320	(Gallons per		Carbon, C
Nitrogen	0.628	1.041	1000.000		73.22
Hydrogen	0.000	0.000	cubic feet)		Hydrogen, H
Carbon Dioxide	0.776	2.022			23.94
Carbon Monoxide	0.000	0.000			
Hydrogen Sulfide	0.000	0.000			Oxygen, O
Methane	94.894	90.130			1.79
Ethane	3.344	5.953			
Propane	0.149	0.390	0.041	(C3....C3) = 0.041	Nitrogen, N
IsoButane	0.015	0.052	0.005		1.04
n-Butane	0.016	0.056	0.005	(C3....C4) = 0.051	
IsoPentane	0.004	0.019	0.002		Sulfur, S
n-Pentane	0.003	0.013	0.001	(C3....C5) = 0.054	0.00
Hexanes +	0.001	0.005	0.000	(C3....C6+) = 0.054	
Totals:	100.00	100.00	0.054	0.200	100.00

Flammable Gases:

98.427

Gas Properties calculated @ STP: degrees F.

60

Measurement Base Pressure @ STP: psia

14.696

H/C Ratio: 0.33

Gas State	Dry Btu / Cu. Ft	Btu / lb	Wet Btu / Cu. Ft
Gross, Ideal Gas	1022.72	22977.28	1004.92
Net, Ideal Gas	921.81	20709.76	905.77
Gross, Real Gas	1024.91		1007.08
Net, Real Gas	923.78		907.71

Relative Gas Density; [Air=1] Ideal:

0.5832

"F" Factor, DSCF/MMBtu @ 60F

8510

9441.6

Specific Gravity, [Air=1] Real gas:

0.5841

"F" Factor, DSCF/MMBtu @ 68F

8639

9585.4

Real Gas Density, Lb/Cu.Ft.:

0.0446

"F" Factor, DSCF/MMBtu @ 70F

8672

9621.9

Specific Volume, Cu.Ft./Lb:

22.4184

"FC" Factor, DSCF CO2/MMBtu @ 60F

1007.6

1117.9

Relative Liquid Density @ 60F/60F:

0.3104

"FC" Factor, DSCF CO2/MMBtu @ 68F

1022.9

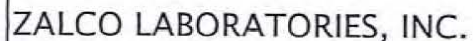
1135.0

Compressibility, 'z':

0.9979

Fuel kg per kg-mole Molecular wt avg

16.891



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2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125

CHAIN OF CUSTODY, ID#

www.zalcolabs.com

Client PO: 13648

Project ID:

Quote ID:

ANALYSIS REQUESTED

Relinquished By:	Company	Date	Time	Received By:	Company:
Kevin Kringle	Mariposa Energy Project	6/2/2020	7:39	MJ 6-3-20 11:30	Zalco

NOTE: Samples Discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Sample Type Key:

Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas
LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water
WW-Wastewater

Attachment 3

Condition AQ-12/13: Heat Input Report

AQ-12/13: Heat Input Limits: 1-hr & Daily Maximums for all CTGs (Attachment 3)

7/3/2020 3:07:03 PM

Page 1 of 3

Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour mmBTU/Hr Limit 500	S-2:Unit 700 Max 1-Hour mmBTU/Hr Limit 500	S-3:Unit 800 Max 1-Hour mmBTU/Hr Limit 500	S-4:Unit 900 Max 1-Hour mmBTU/Hr Limit 500	S-1:Unit 600 Total mmBTU/Day Limit 11544	S-2:Unit 700 Total mmBTU/Day Limit 11544	S-3:Unit 800 Total mmBTU/Day Limit 11544	S-4:Unit 900 Total mmBTU/Day Limit 11544
04/01/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/02/2020 0:00	305	302	Down	Down	513	502	Down	Down
04/03/2020 0:00	Down	298	198	Down	Down	1031	198	Down
04/04/2020 0:00	Down	Down	Down	287	Down	Down	Down	304
04/05/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/06/2020 0:00	260	253	254	261	549	535	538	553
04/07/2020 0:00	261	259	259	267	939	933	938	962
04/08/2020 0:00	254	253	255	258	416	414	417	423
04/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/11/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/14/2020 0:00	260	257	258	265	742	731	736	754
04/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/16/2020 0:00	278	277	281	290	525	521	527	540
04/17/2020 0:00	221	215	217	220	422	413	417	426
04/18/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/19/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/20/2020 0:00	Down	Down	Down	268	Down	Down	Down	298
04/21/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/23/2020 0:00	264	267	264	270	713	724	682	695
04/24/2020 0:00	292	289	292	267	751	742	750	499
04/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/26/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/27/2020 0:00	Down	263	Down	269	Down	1857	Down	1107
04/28/2020 0:00	266	264	266	270	625	620	626	633
04/29/2020 0:00	263	260	261	269	831	544	548	565
04/30/2020 0:00	Down	Down	270	287	Down	Down	270	2647
05/01/2020 0:00	Down	Down	279	Down	Down	Down	1687	Down
05/02/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/03/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/04/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/05/2020 0:00	263	262	263	268	707	702	702	713
05/06/2020 0:00	261	258	262	264	592	586	590	600
05/07/2020 0:00	273	270	271	277	913	904	906	926
05/08/2020 0:00	271	266	270	274	1292	1272	1287	1310
05/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/11/2020 0:00	288	285	290	287	490	471	502	476
05/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/15/2020 0:00	227	216	218	222	373	346	350	358
05/16/2020 0:00	292	255	256	260	1039	915	922	939

AQ-12/13: Heat Input Limits: 1-hr & Daily Maximums for all CTGs (Attachment 3)

7/3/2020 3:07:03 PM

Page 2 of 3

Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour mmBTU/Hr Limit 500	S-2:Unit 700 Max 1-Hour mmBTU/Hr Limit 500	S-3:Unit 800 Max 1-Hour mmBTU/Hr Limit 500	S-4:Unit 900 Max 1-Hour mmBTU/Hr Limit 500	S-1:Unit 600 Total mmBTU/Day Limit 11544	S-2:Unit 700 Total mmBTU/Day Limit 11544	S-3:Unit 800 Total mmBTU/Day Limit 11544	S-4:Unit 900 Total mmBTU/Day Limit 11544
05/17/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/18/2020 0:00	Down	269	Down	Down	Down	5124	Down	Down
05/19/2020 0:00	273	Down	Down	275	2737	Down	Down	1947
05/20/2020 0:00	273	Down	267	Down	2943	Down	2944	Down
05/21/2020 0:00	Down	Down	279	Down	Down	Down	4607	Down
05/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/23/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/24/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/26/2020 0:00	443	430	436	429	2776	2723	2857	3155
05/27/2020 0:00	385	379	384	345	404	407	412	351
05/28/2020 0:00	272	262	261	259	595	581	576	525
05/29/2020 0:00	160	156	157	137	291	287	291	244
05/30/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/31/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/01/2020 0:00	Down	Down	Down	273	Down	Down	Down	3009
06/02/2020 0:00	259	256	270	263	700	693	722	700
06/03/2020 0:00	352	347	356	353	2117	2104	2145	2418
06/04/2020 0:00	273	270	275	278	1384	1373	1396	1399
06/05/2020 0:00	259	257	259	261	552	548	553	545
06/06/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/07/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/08/2020 0:00	282	280	280	276	1195	1182	1190	1088
06/09/2020 0:00	283	281	281	286	1253	1242	1247	1280
06/10/2020 0:00	453	443	453	447	2117	2195	2218	2207
06/11/2020 0:00	325	327	329	325	1114	1100	1082	1075
06/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/14/2020 0:00	Down	264	Down	Down	Down	283	Down	Down
06/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/16/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/17/2020 0:00	266	272	264	266	550	564	548	540
06/18/2020 0:00	269	273	266	272	836	851	830	847
06/19/2020 0:00	271	Down	271	Down	317	Down	319	Down
06/20/2020 0:00	Down	218	Down	Down	Down	218	Down	Down
06/21/2020 0:00	301	11	Down	Down	5317	11	Down	Down
06/22/2020 0:00	284	284	296	281	1149	861	2547	877
06/23/2020 0:00	278	275	278	307	767	757	766	913
06/24/2020 0:00	278	274	278	281	920	907	921	941
06/25/2020 0:00	297	296	277	280	2017	2039	860	876
06/26/2020 0:00	334	328	369	306	1660	1609	2857	2125
06/27/2020 0:00	421	387	422	419	1034	990	1033	1021
06/28/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/29/2020 0:00	264	260	260	267	502	494	492	504
06/30/2020 0:00	423	417	421	420	948	936	944	927

AQ-12/13: Heat Input Limits: 1-hr & Daily Maximums for all CTGs (Attachment 3)

7/3/2020 3:07:03 PM

Page 3 of 3

Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour mmBTU/Hr Limit 500	S-2:Unit 700 Max 1-Hour mmBTU/Hr Limit 500	S-3:Unit 800 Max 1-Hour mmBTU/Hr Limit 500	S-4:Unit 900 Max 1-Hour mmBTU/Hr Limit 500	S-1:Unit 600 Total mmBTU/Day Limit 11544	S-2:Unit 700 Total mmBTU/Day Limit 11544	S-3:Unit 800 Total mmBTU/Day Limit 11544	S-4:Unit 900 Total mmBTU/Day Limit 11544
-----------	---	---	---	---	---	---	---	---

Total:					48630	44844	47951	45239
Average:	290	278	286	287	1105	975	1066	1005
Maximum:	453	443	453	447	5317	5124	4607	3155
Minimum:	160	11	157	137	291	11	198	244

Attachment 4

**Condition AQ-14 Heat Input Limit:
Rolling 12-Month Combined
CTG Heat Input Report**

AQ-14: Heat Input Limit: Rolling 12-Month combined CTG Heat Input (Attachment 4)

7/3/2020 3:07:28 PM

Page 1 of 1

Unit Name: Mariposa Facility

DATE/TIME	S-1:Unit 600 Total MMbtu	S-2:Unit 700 Total MMbtu	S-3:Unit 800 Total MMbtu	S-4:Unit 900 Total MMbtu	Facility Total MMbtu Annual Limit 8,128,900
04/2020	247,256	249,574	237,575	239,493	973,898
05/2020	252,109	253,202	249,354	241,880	996,545
06/2020	258,453	254,829	252,059	245,814	1,011,155
Maximum:	258,453	254,829	252,059	245,814	1,011,155
Minimum:	247,256	249,574	237,575	239,493	973,898

Attachment 5

**Condition AQ-15a/b Operating Hour Limits:
Rolling 12-Month Individual and Combined CTG Hours Report**

Unit Name: Mariposa Facility

DATE/TIME	S-1:Unit 600 Operating Hrs Limit 5,200	S-2:Unit 700 Operating Hrs Limit 5,200	S-3:Unit 800 Operating Hrs Limit 5,200	S-4:Unit 900 Operating Hrs Limit 5,200	Facility Operating Hrs Limit 16,900
04/2020	861	876	835	839	3,410
05/2020	876	888	876	846	3,486
06/2020	901	897	889	867	3,554
Maximum:	901	897	889	867	3,554
Minimum:	861	876	835	839	3,410

Attachment 6

Condition AQ-16: SCR/Oxidation Catalyst Operation Report

Condition AQ-16: SCR/Oxidation Catalyst Operation Report

Permit to Operate Condition 24955 part 16 (AQ-16) states:

The owner/operator shall ensure that each Gas Turbine (S-1, S-2, S-3, S-4) is abated by the properly operated and properly maintained Selective Catalytic Reduction (SCR) System A-2, A-4, A-6 or A-8 and. Oxidation Catalyst System A-1, A-3, A-5, or A-7 whenever fuel is combusted at those sources and the corresponding SCR catalyst bed (A-2, A-4, A-6 or A-8) has reached minimum operating temperature.

The emission reports presented in Attachments 7, 8, 12, and 13 demonstrate that the gas turbines are operating properly as abated by the Catalytic Reduction (SCR) System A-2, A-4, A-6 or A-8 and Oxidation Catalyst System A-1, A-3, A-5, or A-7 and demonstrate compliance with Condition 24955 parts AQ-17a, 17b, 17c, 17d, 19, and 20.

Demonstration of operation above the minimum catalyst bed temperature is demonstrated by compliance with BAAQMD ATC Condition 24955, parts AQ-17a, 17b, 17c, 17d, 19, and 20.

Attachment 7

Condition AQ-17a/b NOx Emission Limits: Hourly Mass Rate and Hourly Average Concentration Report

AQ-17a/b: NOx Emission Limits: Hourly mass rate and hourly average concentration (Attachment 7)

7/3/2020 3:08:25 PM

Page 1 of 3

Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-2:Unit 700 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-3:Unit 800 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-4:Unit 900 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-1:Unit 600 Max 1-Hour NOx@15%O Limit 2.5	S-2:Unit 700 Max 1-Hour NOx@15%O Limit 2.5	S-3:Unit 800 Max 1-Hour NOx@15%O Limit 2.5	S-4:Unit 900 Max 1-Hour NOx@15%O Limit 2.5
04/01/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/02/2020 0:00	1.6	1.3	Down	Down	1.0	0.9	Down	Down
04/03/2020 0:00	Down	1.1	0.0	Down	Down	1.0	0.0	Down
04/04/2020 0:00	Down	Down	Down	0.4	Down	Down	Down	0.3
04/05/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/06/2020 0:00	1.5	1.5	1.5	1.5	1.5	1.7	1.6	1.6
04/07/2020 0:00	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.7
04/08/2020 0:00	0.6	0.5	0.5	0.9	0.6	0.6	0.5	0.9
04/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/11/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/14/2020 0:00	1.6	1.5	1.5	1.6	1.6	1.6	1.6	1.6
04/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/16/2020 0:00	1.5	1.4	1.6	1.6	1.1	1.1	1.2	1.2
04/17/2020 0:00	1.4	1.4	1.4	1.5	1.4	1.5	1.4	1.5
04/18/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/19/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/20/2020 0:00	Down	Down	Down	1.1	Down	Down	Down	1.1
04/21/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/23/2020 0:00	2.0	2.1	1.8	1.7	1.9	1.9	1.9	1.7
04/24/2020 0:00	1.7	1.7	1.6	1.2	1.8	1.8	1.7	1.2
04/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/26/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/27/2020 0:00	Down	1.9	Down	1.7	Down	1.9	Down	1.7
04/28/2020 0:00	1.8	1.8	1.7	1.9	1.9	1.8	1.8	2.0
04/29/2020 0:00	1.9	1.8	1.7	1.8	1.9	1.9	1.8	1.8
04/30/2020 0:00	Down	Down	0.4	2.1	Down	Down	0.4	2.0
05/01/2020 0:00	Down	Down	2.0	Down	Down	Down	2.0	Down
05/02/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/03/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/04/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/05/2020 0:00	0.6	0.5	0.4	1.2	0.6	0.5	0.5	1.2
05/06/2020 0:00	1.2	1.2	1.6	1.5	1.2	1.3	1.7	1.5
05/07/2020 0:00	2.0	1.9	2.0	1.7	2.0	1.9	2.0	1.7
05/08/2020 0:00	2.0	1.9	2.0	1.9	2.0	2.0	2.1	1.8
05/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/11/2020 0:00	1.3	1.5	1.0	1.6	0.9	1.0	0.7	1.2
05/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/15/2020 0:00	1.0	0.6	0.6	1.1	1.0	0.7	0.6	1.2
05/16/2020 0:00	2.1	1.8	1.9	1.9	1.9	1.9	2.0	2.0

AQ-17a/b: NOx Emission Limits: Hourly mass rate and hourly average concentration (Attachment 7)

7/3/2020 3:08:26 PM

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Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-2:Unit 700 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-3:Unit 800 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-4:Unit 900 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-1:Unit 600 Max 1-Hour NOx@15%O Limit 2.5	S-2:Unit 700 Max 1-Hour NOx@15%O Limit 2.5	S-3:Unit 800 Max 1-Hour NOx@15%O Limit 2.5	S-4:Unit 900 Max 1-Hour NOx@15%O Limit 2.5
05/17/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/18/2020 0:00	Down	1.9	Down	Down	Down	1.9	Down	Down
05/19/2020 0:00	1.9	Down	Down	1.9	1.9	Down	Down	1.9
05/20/2020 0:00	1.9	Down	1.7	Down	1.9	Down	1.7	Down
05/21/2020 0:00	Down	Down	1.7	Down	Down	Down	1.8	Down
05/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/23/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/24/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/26/2020 0:00	2.7	2.8	3.9	3.1	1.7	1.9	2.4	2.1
05/27/2020 0:00	0.6	0.6	0.4	0.8	0.5	0.4	0.4	0.6
05/28/2020 0:00	1.2	1.2	1.3	1.5	1.2	1.3	1.4	1.5
05/29/2020 0:00	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.3
05/30/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/31/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/01/2020 0:00	Down	Down	Down	2.0	Down	Down	Down	2.0
06/02/2020 0:00	1.5	1.5	1.7	1.5	1.5	1.6	1.7	1.5
06/03/2020 0:00	2.1	2.4	2.2	2.3	2.0	2.1	1.9	1.7
06/04/2020 0:00	1.9	1.8	1.9	1.5	1.9	1.9	1.8	1.5
06/05/2020 0:00	1.7	1.6	1.6	1.5	1.8	1.7	1.7	1.5
06/06/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/07/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/08/2020 0:00	1.9	1.9	2.0	1.9	1.8	1.9	1.9	1.9
06/09/2020 0:00	1.9	1.9	1.9	2.2	1.6	1.6	1.6	1.8
06/10/2020 0:00	3.3	3.1	3.3	3.1	2.0	1.9	2.0	1.9
06/11/2020 0:00	2.1	2.1	1.9	2.3	1.6	1.6	1.6	1.8
06/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/14/2020 0:00	Down	0.6	Down	Down	Down	0.6	Down	Down
06/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/16/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/17/2020 0:00	1.7	1.8	1.7	1.4	1.7	1.8	1.7	1.4
06/18/2020 0:00	1.8	1.8	1.8	1.6	1.9	1.8	1.8	1.6
06/19/2020 0:00	0.7	Down	0.7	Down	0.7	Down	0.7	Down
06/20/2020 0:00	Down	0.3	Down	Down	Down	0.3	Down	Down
06/21/2020 0:00	2.1	Down	Down	Down	1.9	Down	Down	Down
06/22/2020 0:00	2.1	1.9	2.0	1.9	2.0	1.8	2.0	1.8
06/23/2020 0:00	2.0	2.0	2.0	1.8	2.0	2.0	1.9	1.7
06/24/2020 0:00	2.0	1.9	2.0	2.0	2.0	1.9	1.9	1.9
06/25/2020 0:00	2.0	1.9	2.0	1.9	2.0	1.9	1.9	1.8
06/26/2020 0:00	2.0	2.0	2.1	2.2	1.9	1.9	1.9	2.0
06/27/2020 0:00	3.4	2.8	3.5	3.2	2.1	1.8	2.2	2.1
06/28/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/29/2020 0:00	1.6	1.6	1.5	1.6	1.7	1.6	1.5	1.6
06/30/2020 0:00	2.7	2.8	2.4	3.0	1.7	1.8	1.5	1.9

AQ-17a/b: NOx Emission Limits: Hourly mass rate and hourly average concentration (Attachment 7)

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Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-2:Unit 700 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-3:Unit 800 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-4:Unit 900 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-1:Unit 600 Max 1-Hour NOx@15%O 2 Limit 2.5	S-2:Unit 700 Max 1-Hour NOx@15%O 2 Limit 2.5	S-3:Unit 800 Max 1-Hour NOx@15%O 2 Limit 2.5	S-4:Unit 900 Max 1-Hour NOx@15%O 2 Limit 2.5
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Total:								
Average:	1.7	1.6	1.7	1.7	1.6	1.5	1.5	1.6
Maximum:	3.4	3.1	3.9	3.2	2.1	2.1	2.4	2.1
Minimum:	0.5	0.3	0.0	0.3	0.5	0.3	0.0	0.3

Attachment 8

**Condition AQ-17c/d CO Emission Limits:
Hourly Mass Rate/Rolling 3-Hr Concentration Report**

AQ-17c/d: CO Emission Limits: Hourly mass rate/Rolling 3-hr Concentration (Attachment 8)

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Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour CO Lbs/Hr Limit 2.14	S-2:Unit 700 Max 1-Hour CO Lbs/Hr Limit 2.14	S-3:Unit 800 Max 1-Hour CO Lbs/Hr Limit 2.14	S-4:Unit 900 Max 1-Hour CO Lbs/Hr Limit 2.14	S-1:Unit 600 Max 3-Hour CO@15%O2 Limit 2.0	S-2:Unit 700 Max 3-Hour CO@15%O2 Limit 2.0	S-3:Unit 800 Max 3-Hour CO@15%O2 Limit 2.0	S-4:Unit 900 Max 3-Hour CO@15%O2 Limit 2.0
04/01/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/02/2020 0:00	0.72	0.64	Down	Down	0.3	0.2	Down	Down
04/03/2020 0:00	Down	1.18	0.02	Down	Down	1.5	0.0	Down
04/04/2020 0:00	Down	Down	Down	0.09	Down	Down	Down	0.0
04/05/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/06/2020 0:00	0.85	0.87	0.89	0.94	0.6	0.7	0.7	0.7
04/07/2020 0:00	0.96	0.99	0.94	0.93	0.8	0.7	0.7	0.7
04/08/2020 0:00	0.76	0.78	0.69	0.38	0.5	0.5	0.4	0.2
04/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/11/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/14/2020 0:00	0.88	0.84	0.92	0.92	1.0	1.0	1.1	1.1
04/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/16/2020 0:00	0.60	0.73	0.75	0.76	0.3	0.4	0.4	0.4
04/17/2020 0:00	0.69	0.66	0.64	0.75	0.4	0.4	0.4	0.4
04/18/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/19/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/20/2020 0:00	Down	Down	Down	0.54	Down	Down	Down	0.3
04/21/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/23/2020 0:00	0.95	1.00	0.93	0.91	0.9	0.8	0.9	0.9
04/24/2020 0:00	0.97	1.09	0.76	0.70	0.9	1.1	0.8	0.5
04/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/26/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/27/2020 0:00	Down	0.94	Down	0.81	Down	1.6	Down	1.3
04/28/2020 0:00	0.73	0.91	0.97	0.85	0.6	0.8	0.8	0.8
04/29/2020 0:00	0.94	0.79	0.83	0.88	0.9	0.6	0.7	0.7
04/30/2020 0:00	Down	Down	0.33	1.01	Down	Down	0.2	1.5
05/01/2020 0:00	Down	Down	0.99	Down	Down	Down	1.3	Down
05/02/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/03/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/04/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/05/2020 0:00	0.79	1.00	0.81	0.85	0.9	1.0	0.8	0.9
05/06/2020 0:00	0.92	0.97	0.85	1.10	0.8	0.8	0.7	0.9
05/07/2020 0:00	1.13	1.10	1.07	1.10	1.5	1.5	1.5	1.5
05/08/2020 0:00	1.03	0.99	0.97	1.01	1.6	1.5	1.5	1.6
05/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/11/2020 0:00	0.77	0.75	0.60	0.77	0.3	0.3	0.2	0.3
05/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/15/2020 0:00	0.64	0.48	0.49	0.49	0.3	0.3	0.3	0.3
05/16/2020 0:00	1.03	0.88	0.90	0.94	1.4	1.4	1.4	1.4

AQ-17c/d: CO Emission Limits: Hourly mass rate/Rolling 3-hr Concentration (Attachment 8)

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Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour CO Lbs/Hr Limit 2.14	S-2:Unit 700 Max 1-Hour CO Lbs/Hr Limit 2.14	S-3:Unit 800 Max 1-Hour CO Lbs/Hr Limit 2.14	S-4:Unit 900 Max 1-Hour CO Lbs/Hr Limit 2.14	S-1:Unit 600 Max 3-Hour CO@15%O2 Limit 2.0	S-2:Unit 700 Max 3-Hour CO@15%O2 Limit 2.0	S-3:Unit 800 Max 3-Hour CO@15%O2 Limit 2.0	S-4:Unit 900 Max 3-Hour CO@15%O2 Limit 2.0
05/17/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/18/2020 0:00	Down	0.98	Down	Down	Down	1.6	Down	Down
05/19/2020 0:00	1.00	Down	Down	0.96	1.6	Down	Down	1.5
05/20/2020 0:00	0.89	Down	1.00	Down	1.5	Down	1.6	Down
05/21/2020 0:00	Down	Down	1.09	Down	Down	Down	1.6	Down
05/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/23/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/24/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/26/2020 0:00	1.70	1.50	1.80	1.52	1.7	1.5	1.8	1.6
05/27/2020 0:00	0.39	0.36	0.33	0.39	0.2	0.2	0.1	0.2
05/28/2020 0:00	0.78	0.72	0.73	0.69	0.4	0.4	0.4	0.4
05/29/2020 0:00	0.45	0.38	0.37	0.25	0.3	0.2	0.2	0.1
05/30/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/31/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/01/2020 0:00	Down	Down	Down	0.96	Down	Down	Down	1.5
06/02/2020 0:00	1.05	1.03	1.00	0.98	0.7	0.7	0.7	0.7
06/03/2020 0:00	1.18	1.22	1.38	1.23	1.4	1.5	1.5	1.6
06/04/2020 0:00	1.13	1.08	1.08	1.13	1.8	1.7	1.7	1.8
06/05/2020 0:00	0.86	0.86	0.89	0.94	0.7	0.7	0.7	0.7
06/06/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/07/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/08/2020 0:00	1.00	0.97	1.00	0.96	1.6	1.5	1.5	1.5
06/09/2020 0:00	1.28	1.35	1.27	1.33	1.7	1.7	1.6	1.7
06/10/2020 0:00	1.88	1.80	1.93	1.84	1.7	1.7	1.6	1.8
06/11/2020 0:00	1.38	1.35	1.39	1.47	1.5	1.5	1.6	1.6
06/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/14/2020 0:00	Down	0.29	Down	Down	Down	0.2	Down	Down
06/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/16/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/17/2020 0:00	0.93	0.84	1.00	0.99	0.7	0.6	0.7	0.7
06/18/2020 0:00	1.03	1.01	0.95	0.94	1.3	1.3	1.3	1.3
06/19/2020 0:00	0.41	Down	0.39	Down	0.2	Down	0.2	Down
06/20/2020 0:00	Down	0.14	Down	Down	Down	0.1	Down	Down
06/21/2020 0:00	1.16	Down	Down	Down	1.7	Down	Down	Down
06/22/2020 0:00	1.09	1.00	1.01	1.01	1.6	1.3	1.5	1.3
06/23/2020 0:00	1.00	1.05	0.97	1.00	1.1	1.1	1.1	1.2
06/24/2020 0:00	1.04	1.04	1.00	1.09	1.4	1.4	1.4	1.5
06/25/2020 0:00	1.01	0.99	1.01	1.01	1.5	1.5	1.3	1.3
06/26/2020 0:00	1.06	1.05	1.26	1.00	1.4	1.5	1.5	1.5
06/27/2020 0:00	1.76	1.72	1.79	1.83	1.1	0.6	1.1	1.1
06/28/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/29/2020 0:00	1.01	0.93	0.95	0.97	0.7	0.6	0.6	0.6
06/30/2020 0:00	1.59	1.52	1.74	1.43	0.9	0.9	1.1	0.9

AQ-17c/d: CO Emission Limits: Hourly mass rate/Rolling 3-hr Concentration (Attachment 8)

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Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour CO Lbs/Hr Limit 2.14	S-2:Unit 700 Max 1-Hour CO Lbs/Hr Limit 2.14	S-3:Unit 800 Max 1-Hour CO Lbs/Hr Limit 2.14	S-4:Unit 900 Max 1-Hour CO Lbs/Hr Limit 2.14	S-1:Unit 600 Max 3-Hour CO@15%O2 Limit 2.0	S-2:Unit 700 Max 3-Hour CO@15%O2 Limit 2.0	S-3:Unit 800 Max 3-Hour CO@15%O2 Limit 2.0	S-4:Unit 900 Max 3-Hour CO@15%O2 Limit 2.0
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Total:

Average:	0.99	0.95	0.95	0.95	1.0	1.0	1.0	1.0
Maximum:	1.88	1.80	1.93	1.84	1.8	1.7	1.8	1.8
Minimum:	0.39	0.14	0.02	0.09	0.2	0.1	0.0	0.0

Attachment 9

Condition AQ-17e NH₃ Emission Limits: Rolling 3-Hr Slip Calculation Report

AQ-17e: NH3 Emission Limits: Rolling 3-hr NH3 slip calculation (Attachment 9)

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Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 3-Hour NH3@15%O 2 Limit 5	S-2:Unit 700 Max 3-Hour NH3@15%O 2 Limit 5	S-3:Unit 800 Max 3-Hour NH3@15%O 2 Limit 5	S-4:Unit 900 Max 3-Hour NH3@15%O 2 Limit 5				
04/01/2020 0:00	Down	Down	Down	Down				
04/02/2020 0:00	1	1	Down	Down				
04/03/2020 0:00	Down	1	0	Down				
04/04/2020 0:00	Down	Down	Down	0				
04/05/2020 0:00	Down	Down	Down	Down				
04/06/2020 0:00	0	0	0	1				
04/07/2020 0:00	0	0	0	1				
04/08/2020 0:00	0	0	0	1				
04/09/2020 0:00	Down	Down	Down	Down				
04/10/2020 0:00	Down	Down	Down	Down				
04/11/2020 0:00	Down	Down	Down	Down				
04/12/2020 0:00	Down	Down	Down	Down				
04/13/2020 0:00	Down	Down	Down	Down				
04/14/2020 0:00	0	0	1	1				
04/15/2020 0:00	Down	Down	Down	Down				
04/16/2020 0:00	1	1	1	1				
04/17/2020 0:00	0	0	0	0				
04/18/2020 0:00	Down	Down	Down	Down				
04/19/2020 0:00	Down	Down	Down	Down				
04/20/2020 0:00	Down	Down	Down	0				
04/21/2020 0:00	Down	Down	Down	Down				
04/22/2020 0:00	Down	Down	Down	Down				
04/23/2020 0:00	0	1	1	1				
04/24/2020 0:00	0	1	1	2				
04/25/2020 0:00	Down	Down	Down	Down				
04/26/2020 0:00	Down	Down	Down	Down				
04/27/2020 0:00	Down	1	Down	2				
04/28/2020 0:00	0	0	1	1				
04/29/2020 0:00	0	0	0	1				
04/30/2020 0:00	Down	Down	0	1				
05/01/2020 0:00	Down	Down	1	Down				
05/02/2020 0:00	Down	Down	Down	Down				
05/03/2020 0:00	Down	Down	Down	Down				
05/04/2020 0:00	Down	Down	Down	Down				
05/05/2020 0:00	0	1	2	2				
05/06/2020 0:00	0	0	1	1				
05/07/2020 0:00	0	1	1	2				
05/08/2020 0:00	0	1	1	2				
05/09/2020 0:00	Down	Down	Down	Down				
05/10/2020 0:00	Down	Down	Down	Down				
05/11/2020 0:00	0	0	0	0				
05/12/2020 0:00	Down	Down	Down	Down				
05/13/2020 0:00	Down	Down	Down	Down				
05/14/2020 0:00	Down	Down	Down	Down				
05/15/2020 0:00	0	0	0	0				
05/16/2020 0:00	1	0	1	1				

AQ-17e: NH3 Emission Limits: Rolling 3-hr NH3 slip calculation (Attachment 9)

7/3/2020 3:09:02 PM

Page 2 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 3-Hour NH3@15%O 2 Limit 5	S-2:Unit 700 Max 3-Hour NH3@15%O 2	S-3:Unit 800 Max 3-Hour NH3@15%O 2 Limit 5	S-4:Unit 900 Max 3-Hour NH3@15%O 2 Limit 5				
05/17/2020 0:00	Down	Down	Down	Down				
05/18/2020 0:00	Down	1	Down	Down				
05/19/2020 0:00	0	Down	Down	2				
05/20/2020 0:00	0	Down	1	Down				
05/21/2020 0:00	Down	Down	1	Down				
05/22/2020 0:00	Down	Down	Down	Down				
05/23/2020 0:00	Down	Down	Down	Down				
05/24/2020 0:00	Down	Down	Down	Down				
05/25/2020 0:00	Down	Down	Down	Down				
05/26/2020 0:00	5	4	2	3				
05/27/2020 0:00	0	0	0	0				
05/28/2020 0:00	0	0	0	0				
05/29/2020 0:00	0	0	0	0				
05/30/2020 0:00	Down	Down	Down	Down				
05/31/2020 0:00	Down	Down	Down	Down				
06/01/2020 0:00	Down	Down	Down	2				
06/02/2020 0:00	0	0	1	1				
06/03/2020 0:00	1	1	2	3				
06/04/2020 0:00	0	1	1	2				
06/05/2020 0:00	0	0	0	1				
06/06/2020 0:00	Down	Down	Down	Down				
06/07/2020 0:00	Down	Down	Down	Down				
06/08/2020 0:00	0	1	1	2				
06/09/2020 0:00	1	1	1	2				
06/10/2020 0:00	3	3	3	3				
06/11/2020 0:00	1	1	1	2				
06/12/2020 0:00	Down	Down	Down	Down				
06/13/2020 0:00	Down	Down	Down	Down				
06/14/2020 0:00	Down	0	Down	Down				
06/15/2020 0:00	Down	Down	Down	Down				
06/16/2020 0:00	Down	Down	Down	Down				
06/17/2020 0:00	0	0	0	1				
06/18/2020 0:00	0	1	1	2				
06/19/2020 0:00	0	Down	0	Down				
06/20/2020 0:00	Down	0	Down	Down				
06/21/2020 0:00	1	Down	Down	Down				
06/22/2020 0:00	1	1	1	1				
06/23/2020 0:00	0	1	1	2				
06/24/2020 0:00	0	1	1	1				
06/25/2020 0:00	0	1	1	1				
06/26/2020 0:00	1	1	2	2				
06/27/2020 0:00	2	1	2	2				
06/28/2020 0:00	Down	Down	Down	Down				
06/29/2020 0:00	0	0	0	1				
06/30/2020 0:00	2	2	1	2				

AQ-17e: NH3 Emission Limits: Rolling 3-hr NH3 slip calculation (Attachment 9)

7/3/2020 3:09:02 PM

Page 3 of 3

Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 3-Hour NH3@15%O 2 Limit 5	S-2:Unit 700 Max 3-Hour NH3@15%O 0	S-3:Unit 800 Max 3-Hour NH3@15%O 2 Limit 5	S-4:Unit 900 Max 3-Hour NH3@15%O 2 Limit 5				
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Total:

Average:	1	1	1	1				
Maximum:	5	4	3	3				
Minimum:	0	0	0	0				

Attachment 10

**Condition AQ-17f/g Hourly Mass Emission Limits:
POC & SO₂ Report**

AQ-17f/g: Hourly Mass Emission Limits: POC and SO2 (Attachment 10)

7/3/2020 3:09:17 PM

Page 1 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour POC Lbs/Hr Limit 0.612	S-2:Unit 700 Max 1-Hour POC Lbs/Hr Limit 0.612	S-3:Unit 800 Max 1-Hour POC Lbs/Hr Limit 0.612	S-4:Unit 900 Max 1-Hour POC Lbs/Hr Limit 0.612	S-1:Unit 600 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-2:Unit 700 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-3:Unit 800 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-4:Unit 900 Max 1-Hour SO2 Lbs/Hr Limit 1.347
04/01/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/02/2020 0:00	0.024	0.025	Down	Down	0.236	0.145	Down	Down
04/03/2020 0:00	Down	0.021	0.011	Down	Down	0.119	0.054	Down
04/04/2020 0:00	Down	Down	Down	0.011	Down	Down	Down	0.057
04/05/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/06/2020 0:00	0.016	0.018	0.025	0.016	0.155	0.102	0.127	0.078
04/07/2020 0:00	0.016	0.018	0.026	0.016	0.157	0.104	0.130	0.080
04/08/2020 0:00	0.016	0.018	0.026	0.016	0.155	0.103	0.129	0.078
04/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/11/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/14/2020 0:00	0.016	0.018	0.026	0.016	0.156	0.103	0.129	0.080
04/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/16/2020 0:00	0.021	0.024	0.035	0.022	0.209	0.138	0.175	0.108
04/17/2020 0:00	0.016	0.018	0.026	0.016	0.158	0.104	0.131	0.080
04/18/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/19/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/20/2020 0:00	Down	Down	Down	0.013	Down	Down	Down	0.066
04/21/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/23/2020 0:00	0.017	0.021	0.026	0.016	0.169	0.119	0.132	0.081
04/24/2020 0:00	0.018	0.021	0.031	0.016	0.185	0.122	0.154	0.080
04/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/26/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
04/27/2020 0:00	Down	0.018	Down	0.016	Down	0.105	Down	0.081
04/28/2020 0:00	0.016	0.018	0.027	0.016	0.160	0.106	0.133	0.081
04/29/2020 0:00	0.016	0.018	0.026	0.016	0.158	0.104	0.130	0.081
04/30/2020 0:00	Down	Down	0.020	0.017	Down	Down	0.101	0.086
05/01/2020 0:00	Down	Down	0.028	Down	Down	Down	0.139	Down
05/02/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/03/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/04/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/05/2020 0:00	0.016	0.018	0.026	0.016	0.161	0.105	0.131	0.082
05/06/2020 0:00	0.016	0.018	0.026	0.016	0.157	0.104	0.131	0.080
05/07/2020 0:00	0.016	0.019	0.027	0.017	0.164	0.108	0.136	0.083
05/08/2020 0:00	0.016	0.019	0.027	0.016	0.162	0.106	0.135	0.082
05/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/11/2020 0:00	0.018	0.026	0.034	0.023	0.183	0.151	0.171	0.115
05/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/15/2020 0:00	0.017	0.018	0.026	0.016	0.166	0.103	0.130	0.079
05/16/2020 0:00	0.018	0.018	0.026	0.016	0.176	0.102	0.128	0.078

AQ-17f/g: Hourly Mass Emission Limits: POC and SO2 (Attachment 10)

7/3/2020 3:09:17 PM

Page 2 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour POC Lbs/Hr Limit 0.612	S-2:Unit 700 Max 1-Hour POC Lbs/Hr Limit 0.612	S-3:Unit 800 Max 1-Hour POC Lbs/Hr Limit 0.612	S-4:Unit 900 Max 1-Hour POC Lbs/Hr Limit 0.612	S-1:Unit 600 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-2:Unit 700 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-3:Unit 800 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-4:Unit 900 Max 1-Hour SO2 Lbs/Hr Limit 1.347
05/17/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/18/2020 0:00	Down	0.019	Down	Down	Down	0.109	Down	Down
05/19/2020 0:00	0.016	Down	Down	0.017	0.164	Down	Down	0.084
05/20/2020 0:00	0.016	Down	0.027	Down	0.164	Down	0.133	Down
05/21/2020 0:00	Down	Down	0.028	Down	Down	Down	0.139	Down
05/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/23/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/24/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/26/2020 0:00	0.027	0.030	0.044	0.026	0.266	0.172	0.218	0.129
05/27/2020 0:00	0.017	0.019	0.025	0.017	0.170	0.109	0.127	0.085
05/28/2020 0:00	0.015	0.016	0.022	0.013	0.147	0.090	0.111	0.067
05/29/2020 0:00	0.013	0.014	0.020	0.010	0.133	0.078	0.100	0.050
05/30/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
05/31/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/01/2020 0:00	Down	Down	Down	0.016	Down	Down	Down	0.082
06/02/2020 0:00	0.016	0.018	0.028	0.016	0.158	0.104	0.138	0.081
06/03/2020 0:00	0.021	0.024	0.036	0.021	0.211	0.139	0.178	0.106
06/04/2020 0:00	0.016	0.019	0.028	0.017	0.164	0.108	0.137	0.084
06/05/2020 0:00	0.015	0.018	0.026	0.016	0.155	0.102	0.129	0.078
06/06/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/07/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/08/2020 0:00	0.017	0.019	0.028	0.017	0.165	0.109	0.138	0.083
06/09/2020 0:00	0.019	0.022	0.032	0.019	0.189	0.125	0.158	0.095
06/10/2020 0:00	0.027	0.031	0.045	0.027	0.273	0.178	0.227	0.135
06/11/2020 0:00	0.021	0.024	0.033	0.020	0.207	0.136	0.165	0.100
06/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/14/2020 0:00	Down	0.013	Down	Down	Down	0.075	Down	Down
06/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/16/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/17/2020 0:00	0.016	0.019	0.026	0.016	0.159	0.109	0.132	0.081
06/18/2020 0:00	0.016	0.019	0.027	0.016	0.161	0.109	0.133	0.082
06/19/2020 0:00	0.014	Down	0.022	Down	0.135	Down	0.108	Down
06/20/2020 0:00	Down	0.010	Down	Down	Down	0.060	Down	Down
06/21/2020 0:00	0.018	Down	Down	Down	0.181	Down	Down	Down
06/22/2020 0:00	0.017	0.019	0.030	0.017	0.175	0.111	0.150	0.084
06/23/2020 0:00	0.017	0.019	0.028	0.018	0.167	0.110	0.139	0.092
06/24/2020 0:00	0.017	0.019	0.028	0.017	0.167	0.110	0.139	0.084
06/25/2020 0:00	0.018	0.021	0.028	0.017	0.179	0.119	0.139	0.084
06/26/2020 0:00	0.021	0.024	0.035	0.018	0.209	0.137	0.174	0.092
06/27/2020 0:00	0.027	0.030	0.044	0.026	0.266	0.170	0.222	0.132
06/28/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down
06/29/2020 0:00	0.016	0.019	0.026	0.016	0.161	0.106	0.132	0.082
06/30/2020 0:00	0.026	0.030	0.044	0.026	0.264	0.173	0.219	0.130

AQ-17f/g: Hourly Mass Emission Limits: POC and SO2 (Attachment 10)

7/3/2020 3:09:18 PM

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Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour POC Lbs/Hr Limit 0.612	S-2:Unit 700 Max 1-Hour POC Lbs/Hr Limit 0.612	S-3:Unit 800 Max 1-Hour POC Lbs/Hr Limit 0.612	S-4:Unit 900 Max 1-Hour POC Lbs/Hr Limit 0.612	S-1:Unit 600 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-2:Unit 700 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-3:Unit 800 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-4:Unit 900 Max 1-Hour SO2 Lbs/Hr Limit 1.347
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Total:								
Average:	0.018	0.020	0.029	0.017	0.179	0.116	0.143	0.087
Maximum:	0.027	0.031	0.045	0.027	0.273	0.178	0.227	0.135
Minimum:	0.013	0.010	0.011	0.010	0.133	0.060	0.054	0.050

Attachment 11

Condition AQ-18 Startup/Shutdown Emission Limits Report

7/3/2020 3:05:46 PM

Page 1 of 3

Report End Date/Time : Tue 06/30/2020 23:59

[illegible]

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

7/3/2020 3:05:46 PM

Page 2 of 3

Unit Name: Mariposa Unit 600

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
05/03/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/04/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/05/2020 0:00	7.2	0.8	7.5	1.3	0.2	1.6	0.0	0.00	0.0
05/06/2020 0:00	6.1	0.8	6.5	1.3	0.2	1.6	0.0	0.00	0.0
05/07/2020 0:00	6.0	1.0	6.5	1.1	0.2	1.4	0.0	0.00	0.0
05/08/2020 0:00	6.0	1.1	6.5	1.1	0.2	1.9	0.0	0.00	0.0
05/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/11/2020 0:00	11.7	1.1	8.7	1.2	0.2	1.3	0.0	0.00	0.0
05/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/15/2020 0:00	7.7	1.0	8.2	1.7	0.2	2.1	0.0	0.00	0.0
05/16/2020 0:00	7.8	1.2	8.3	1.0	0.2	1.3	0.0	0.00	0.0
05/17/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/18/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/19/2020 0:00	6.4	Down	7.0	1.2	Down	1.5	0.0	Down	0.0
05/20/2020 0:00	Down	1.4	2.6	Down	0.2	1.0	Down	0.00	0.0
05/21/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/23/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/24/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/26/2020 0:00	6.4	1.2	7.4	1.3	0.2	1.7	0.0	0.00	0.0
05/27/2020 0:00	6.9	1.1	7.6	1.1	0.2	1.5	0.0	0.00	0.0
05/28/2020 0:00	5.8	1.2	6.2	1.2	0.2	1.6	0.0	0.00	0.0
05/29/2020 0:00	5.6	0.6	6.0	1.0	0.2	1.4	0.0	0.00	0.0
05/30/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/31/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/01/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/02/2020 0:00	5.9	1.3	6.4	1.1	0.2	1.5	0.0	0.00	0.0
06/03/2020 0:00	5.5	1.1	6.3	1.0	0.2	1.4	0.0	0.00	0.0

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

7/3/2020 3:05:46 PM

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Unit Name: Mariposa Unit 600

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
06/04/2020 0:00	5.9	1.1	6.4	0.8	0.3	1.1	0.0	0.00	0.0
06/05/2020 0:00	6.5	1.2	7.0	0.9	0.2	1.2	0.0	0.00	0.0
06/06/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/07/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/08/2020 0:00	7.7	1.2	8.1	1.1	0.2	1.4	0.0	0.00	0.0
06/09/2020 0:00	6.1	1.1	7.1	1.3	0.2	1.8	0.0	0.00	0.0
06/10/2020 0:00	5.7	1.2	6.1	1.1	0.2	2.0	0.0	0.00	0.0
06/11/2020 0:00	5.4	0.8	5.9	0.8	0.2	1.4	0.0	0.00	0.0
06/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/16/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/17/2020 0:00	6.5	0.9	7.0	1.3	0.2	1.5	0.0	0.00	0.0
06/18/2020 0:00	6.0	1.1	6.7	1.1	0.2	1.4	0.0	0.00	0.0
06/19/2020 0:00	6.4	0.9	6.9	1.1	0.2	1.4	0.0	0.00	0.0
06/20/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/21/2020 0:00	6.1	Down	6.5	1.2	Down	1.4	0.0	Down	0.0
06/22/2020 0:00	5.2	1.4	5.7	0.9	0.2	1.3	0.0	0.00	0.0
06/23/2020 0:00	5.1	1.0	5.7	1.2	0.2	1.6	0.0	0.00	0.0
06/24/2020 0:00	6.1	1.0	6.7	0.4	0.2	1.1	0.0	0.00	0.0
06/25/2020 0:00	6.4	1.0	7.0	0.9	0.2	1.6	0.0	0.00	0.0
06/26/2020 0:00	6.0	1.0	6.7	1.1	0.2	1.5	0.0	0.00	0.0
06/27/2020 0:00	5.8	0.9	6.9	0.9	0.2	1.8	0.0	0.00	0.0
06/28/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/29/2020 0:00	6.0	1.0	6.5	1.0	0.2	1.3	0.0	0.00	0.0
06/30/2020 0:00	6.8	0.2	7.7	1.0	0.2	1.6	0.0	0.00	0.0

Total:

Average:	6.4	1.0	6.8	1.1	0.2	1.5	0.0	0.00	0.02
Maximum:	11.7	1.4	10.2	2.1	0.3	2.3	0.0	0.00	0.03
Minimum:	4.9	0.2	2.6	0.4	0.2	1.0	0.0	0.00	0.02

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Report End Date/Time : Tue 06/30/2020 23:59

[illegible]

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

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Unit Name: Mariposa Unit 700

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
05/03/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/04/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/05/2020 0:00	8.2	0.5	8.3	1.1	0.3	1.3	0.0	0.00	0.0
05/06/2020 0:00	6.8	0.6	7.3	1.2	0.2	1.5	0.0	0.00	0.0
05/07/2020 0:00	6.5	0.9	7.1	1.2	0.2	1.5	0.0	0.00	0.0
05/08/2020 0:00	6.4	1.2	6.9	1.1	0.2	1.9	0.0	0.00	0.0
05/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/11/2020 0:00	7.4	0.9	8.5	0.6	0.2	1.0	0.0	0.00	0.0
05/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/15/2020 0:00	6.6	1.0	7.0	1.0	0.2	1.3	0.0	0.00	0.0
05/16/2020 0:00	6.4	1.0	6.7	1.0	0.2	1.3	0.0	0.00	0.0
05/17/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/18/2020 0:00	C	1.2	2.8	C	0.2	1.1	0.0	0.00	0.0
05/19/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/20/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/21/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/23/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/24/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/26/2020 0:00	8.4	1.3	9.2	1.6	0.2	1.9	0.0	0.00	0.0
05/27/2020 0:00	7.4	0.9	7.9	1.4	0.2	1.7	0.0	0.00	0.0
05/28/2020 0:00	6.4	0.9	6.8	1.3	0.2	1.7	0.0	0.00	0.0
05/29/2020 0:00	6.3	0.6	6.6	1.4	0.2	1.7	0.0	0.00	0.0
05/30/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/31/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/01/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/02/2020 0:00	6.6	1.1	7.2	1.3	0.2	1.7	0.0	0.00	0.0
06/03/2020 0:00	6.5	1.0	6.7	1.3	0.2	1.5	0.0	0.00	0.0

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

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Unit Name: Mariposa Unit 700

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
06/04/2020 0:00	6.5	0.9	7.0	0.9	0.2	1.2	0.0	0.00	0.0
06/05/2020 0:00	7.6	1.1	8.0	0.9	0.2	1.2	0.0	0.00	0.0
06/06/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/07/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/08/2020 0:00	10.1	1.1	10.3	1.0	0.2	1.3	0.0	0.00	0.0
06/09/2020 0:00	6.7	0.9	7.7	1.4	0.2	2.0	0.0	0.00	0.0
06/10/2020 0:00	6.4	0.9	6.6	1.0	0.2	1.8	0.0	0.00	0.0
06/11/2020 0:00	5.9	0.7	6.5	0.9	0.2	1.5	0.0	0.00	0.0
06/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/14/2020 0:00	7.1	0.7	7.7	1.1	0.2	1.4	0.0	0.00	0.0
06/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/16/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/17/2020 0:00	8.2	0.7	8.6	1.4	0.2	1.6	0.0	0.00	0.0
06/18/2020 0:00	7.2	0.8	7.9	1.2	0.2	1.6	0.0	0.00	0.0
06/19/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/20/2020 0:00	7.2	0.0	7.5	1.1	0.0	1.3	0.0	0.00	0.0
06/21/2020 0:00	Down	0.9	8.3	Down	0.2	1.5	Down	0.00	0.0
06/22/2020 0:00	7.0	0.8	7.5	0.8	0.2	1.2	0.0	0.00	0.0
06/23/2020 0:00	5.8	0.6	6.3	0.6	0.2	1.1	0.0	0.00	0.0
06/24/2020 0:00	7.7	0.7	8.1	1.1	0.2	1.5	0.0	0.00	0.0
06/25/2020 0:00	8.0	0.6	8.7	1.0	0.2	1.4	0.0	0.00	0.0
06/26/2020 0:00	7.3	0.9	8.1	0.5	0.2	1.1	0.0	0.00	0.0
06/27/2020 0:00	6.9	0.7	7.1	1.1	1.2	1.8	0.0	0.01	0.0
06/28/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/29/2020 0:00	6.6	0.8	7.1	1.5	0.2	1.8	0.0	0.00	0.0
06/30/2020 0:00	7.9	0.1	8.8	1.1	0.3	1.6	0.0	0.00	0.0

Total:

Average:	7.1	0.9	7.5	1.1	0.2	1.4	0.0	0.00	0.02
Maximum:	10.1	1.3	10.7	2.7	1.2	2.8	0.0	0.01	0.03
Minimum:	5.8	0.0	2.8	0.4	0.0	0.9	0.0	0.00	0.02

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Report End Date/Time : Tue 06/30/2020 23:59

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AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

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Unit Name: Mariposa Unit 800

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
05/03/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/04/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/05/2020 0:00	9.6	0.4	9.7	1.2	0.2	1.4	0.0	0.00	0.0
05/06/2020 0:00	7.7	0.6	8.3	1.1	0.2	1.3	0.0	0.00	0.0
05/07/2020 0:00	7.1	0.9	7.7	1.1	0.2	1.5	0.0	0.00	0.0
05/08/2020 0:00	7.5	1.1	7.9	1.0	0.2	1.8	0.0	0.00	0.0
05/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/11/2020 0:00	8.6	0.9	9.2	0.8	0.2	1.1	0.0	0.00	0.0
05/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/15/2020 0:00	7.4	0.7	7.8	0.9	0.2	1.2	0.0	0.00	0.0
05/16/2020 0:00	6.8	0.9	7.2	0.9	0.2	1.2	0.0	0.00	0.0
05/17/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/18/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/19/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/20/2020 0:00	7.4	Down	8.0	1.2	Down	1.5	0.0	Down	0.0
05/21/2020 0:00	4.7	1.7	5.6	0.3	0.2	1.1	0.0	0.00	0.0
05/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/23/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/24/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/26/2020 0:00	7.8	0.6	8.5	0.8	0.2	1.8	0.0	0.00	0.0
05/27/2020 0:00	9.6	0.4	10.0	1.3	0.2	1.6	0.0	0.00	0.0
05/28/2020 0:00	7.5	0.8	7.9	1.1	0.2	1.7	0.0	0.00	0.0
05/29/2020 0:00	7.0	0.6	7.3	0.5	0.2	0.8	0.0	0.00	0.0
05/30/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/31/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/01/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/02/2020 0:00	7.4	0.9	7.8	1.2	0.2	1.6	0.0	0.00	0.0
06/03/2020 0:00	7.0	0.8	7.5	0.9	0.2	1.4	0.0	0.00	0.0

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

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Unit Name: Mariposa Unit 800

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
06/04/2020 0:00	7.3	0.8	7.7	0.7	0.2	1.1	0.0	0.00	0.0
06/05/2020 0:00	8.0	1.0	8.3	0.9	0.2	1.2	0.0	0.00	0.0
06/06/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/07/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/08/2020 0:00	9.9	0.9	10.1	0.4	0.2	1.0	0.0	0.00	0.0
06/09/2020 0:00	7.8	0.8	8.4	1.3	0.2	1.7	0.0	0.00	0.0
06/10/2020 0:00	7.1	1.2	7.3	0.8	0.2	1.9	0.0	0.00	0.0
06/11/2020 0:00	6.1	0.8	6.5	0.8	0.2	1.5	0.0	0.00	0.0
06/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/16/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/17/2020 0:00	7.7	0.7	8.1	1.3	0.2	1.6	0.0	0.00	0.0
06/18/2020 0:00	7.2	0.8	7.7	1.2	0.2	1.5	0.0	0.00	0.0
06/19/2020 0:00	7.9	0.8	8.4	1.0	0.2	1.3	0.0	0.00	0.0
06/20/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/21/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/22/2020 0:00	7.6	1.3	8.0	1.1	0.2	1.4	0.0	0.00	0.0
06/23/2020 0:00	6.3	0.8	6.9	1.2	0.2	1.6	0.0	0.00	0.0
06/24/2020 0:00	7.7	1.1	8.3	0.4	0.3	1.2	0.0	0.00	0.0
06/25/2020 0:00	7.1	0.8	7.7	0.4	0.2	1.0	0.0	0.00	0.0
06/26/2020 0:00	8.4	1.3	8.9	1.4	0.2	1.8	0.0	0.00	0.0
06/27/2020 0:00	7.3	0.6	8.8	1.0	0.3	1.8	0.0	0.00	0.0
06/28/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/29/2020 0:00	7.3	0.7	7.8	0.6	0.2	1.0	0.0	0.00	0.0
06/30/2020 0:00	8.5	0.0	9.0	0.3	0.3	1.7	0.0	0.00	0.0

Total:

Average:	7.5	0.8	8.1	0.9	0.2	1.3	0.0	0.00	0.03
Maximum:	9.9	1.7	10.1	1.4	0.3	1.9	0.0	0.00	0.05
Minimum:	4.4	0.0	5.6	0.3	0.2	0.8	0.0	0.00	0.02

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Report End Date/Time : Tue 06/30/2020 23:59

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AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

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Unit Name: Mariposa Unit 900

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
05/03/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/04/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/05/2020 0:00	7.5	1.0	8.0	0.9	0.1	1.2	0.0	0.00	0.0
05/06/2020 0:00	6.8	0.9	7.3	1.2	0.1	1.5	0.0	0.00	0.0
05/07/2020 0:00	6.4	0.8	7.1	1.2	0.1	1.6	0.0	0.00	0.0
05/08/2020 0:00	6.6	1.5	7.2	0.9	0.1	1.7	0.0	0.00	0.0
05/09/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/10/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/11/2020 0:00	7.4	1.1	8.4	0.5	0.1	0.9	0.0	0.00	0.0
05/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/15/2020 0:00	7.1	1.4	7.7	1.0	0.1	1.2	0.0	0.00	0.0
05/16/2020 0:00	6.5	1.4	7.1	0.7	0.1	1.1	0.0	0.00	0.0
05/17/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/18/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/19/2020 0:00	C	1.5	3.1	C	0.1	1.0	0.0	0.00	0.0
05/20/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/21/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/22/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/23/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/24/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/25/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/26/2020 0:00	6.8	1.3	7.3	1.4	0.1	1.7	0.0	0.00	0.0
05/27/2020 0:00	5.1	0.9	6.0	0.6	0.1	1.1	0.0	0.00	0.0
05/28/2020 0:00	5.4	1.2	6.8	0.5	0.1	1.2	0.0	0.00	0.0
05/29/2020 0:00	5.0	1.0	5.5	0.5	0.1	0.8	0.0	0.00	0.0
05/30/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
05/31/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/01/2020 0:00	5.3	1.6	6.3	0.6	0.2	1.0	0.0	0.00	0.0
06/02/2020 0:00	6.1	1.3	6.9	0.5	0.1	1.0	0.0	0.00	0.0
06/03/2020 0:00	5.0	1.0	6.1	0.8	0.1	1.7	0.0	0.00	0.0

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

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Unit Name: Mariposa Unit 900

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
06/04/2020 0:00	5.3	1.0	5.9	0.5	0.1	1.1	0.0	0.00	0.0
06/05/2020 0:00	5.4	1.2	5.8	0.7	0.1	1.0	0.0	0.00	0.0
06/06/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/07/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/08/2020 0:00	5.7	1.4	6.2	0.4	0.1	1.0	0.0	0.00	0.0
06/09/2020 0:00	5.7	1.2	7.3	0.4	0.1	1.4	0.0	0.00	0.0
06/10/2020 0:00	6.1	1.5	6.5	0.7	0.1	1.8	0.0	0.00	0.0
06/11/2020 0:00	4.6	1.2	5.2	0.6	0.1	1.5	0.0	0.00	0.0
06/12/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/13/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/14/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/15/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/16/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/17/2020 0:00	5.6	0.8	6.1	0.6	0.1	1.0	0.0	0.00	0.0
06/18/2020 0:00	4.9	0.9	5.6	0.4	0.1	0.9	0.0	0.00	0.0
06/19/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/20/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/21/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/22/2020 0:00	4.6	1.1	5.4	1.0	0.1	1.0	0.0	0.00	0.0
06/23/2020 0:00	4.9	1.2	5.4	0.5	0.1	1.0	0.0	0.00	0.0
06/24/2020 0:00	4.6	1.1	5.3	0.5	0.1	1.1	0.0	0.00	0.0
06/25/2020 0:00	4.5	1.0	5.2	1.1	0.1	1.5	0.0	0.00	0.0
06/26/2020 0:00	6.6	1.1	7.3	1.2	0.1	1.7	0.0	0.00	0.0
06/27/2020 0:00	5.4	1.1	6.2	0.8	0.2	1.8	0.0	0.00	0.0
06/28/2020 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
06/29/2020 0:00	5.3	1.1	5.8	0.5	0.1	1.0	0.0	0.00	0.0
06/30/2020 0:00	6.0	0.2	6.9	0.4	0.1	1.4	0.0	0.00	0.0

Total:

Average:	6.0	1.2	6.7	0.7	0.1	1.2	0.0	0.00	0.02
Maximum:	9.9	1.6	10.4	2.0	0.2	2.1	0.0	0.00	0.03
Minimum:	3.1	0.2	3.1	0.2	0.1	0.5	0.0	0.00	0.01

Attachment 12

**Condition AQ-19 Daily Emission Limits:
NO_x, CO, POC, SO₂ Emissions Report**

AQ-19: Daily Emission Limits: NOx, CO, POC, SO2 (Attachment 12)

7/3/2020 3:09:38 PM

Page 1 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Daily NOx Lbs Limit 1100	Daily CO Lbs Limit 934	Daily POC Lbs Limit 95	Daily SO2 Lbs Limit 130				
04/01/2020 0:00	Down	Down	Down	Down				
04/02/2020 0:00	28	5	0	1				
04/03/2020 0:00	32	6	0	1				
04/04/2020 0:00	13	3	0	0				
04/05/2020 0:00	Down	Down	Down	Down				
04/06/2020 0:00	48	13	0	1				
04/07/2020 0:00	83	18	0	2				
04/08/2020 0:00	33	9	0	1				
04/09/2020 0:00	Down	Down	Down	Down				
04/10/2020 0:00	Down	Down	Down	Down				
04/11/2020 0:00	Down	Down	Down	Down				
04/12/2020 0:00	Down	Down	Down	Down				
04/13/2020 0:00	Down	Down	Down	Down				
04/14/2020 0:00	45	14	0	1				
04/15/2020 0:00	Down	Down	Down	Down				
04/16/2020 0:00	39	10	0	1				
04/17/2020 0:00	53	9	0	1				
04/18/2020 0:00	Down	Down	Down	Down				
04/19/2020 0:00	Down	Down	Down	Down				
04/20/2020 0:00	10	2	0	0				
04/21/2020 0:00	Down	Down	Down	Down				
04/22/2020 0:00	Down	Down	Down	Down				
04/23/2020 0:00	46	15	0	1				
04/24/2020 0:00	46	13	0	1				
04/25/2020 0:00	Down	Down	Down	Down				
04/26/2020 0:00	Down	Down	Down	Down				
04/27/2020 0:00	33	11	0	1				
04/28/2020 0:00	46	12	0	1				
04/29/2020 0:00	57	12	0	1				
04/30/2020 0:00	45	13	0	1				
05/01/2020 0:00	16	7	0	1				
05/02/2020 0:00	Down	Down	Down	Down				
05/03/2020 0:00	Down	Down	Down	Down				
05/04/2020 0:00	Down	Down	Down	Down				
05/05/2020 0:00	40	13	0	1				
05/06/2020 0:00	41	13	0	1				
05/07/2020 0:00	56	18	0	2				
05/08/2020 0:00	83	27	0	2				
05/09/2020 0:00	Down	Down	Down	Down				
05/10/2020 0:00	Down	Down	Down	Down				
05/11/2020 0:00	45	10	0	1				
05/12/2020 0:00	Down	Down	Down	Down				
05/13/2020 0:00	Down	Down	Down	Down				
05/14/2020 0:00	Down	Down	Down	Down				
05/15/2020 0:00	48	10	0	1				
05/16/2020 0:00	58	17	0	2				

AQ-19: Daily Emission Limits: NOx, CO, POC, SO2 (Attachment 12)

7/3/2020 3:09:38 PM

Page 2 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Wed 04/01/2020 0:00

Report End Date/Time : Tue 06/30/2020 23:59

DATE/TIME	Daily NOx Lbs Limit 1100	Daily CO Lbs Limit 934	Daily POC Lbs Limit 95	Daily SO2 Lbs Limit 130				
05/17/2020 0:00	Down	Down	Down	Down				
05/18/2020 0:00	32	17	0	2				
05/19/2020 0:00	37	17	0	2				
05/20/2020 0:00	48	21	0	3				
05/21/2020 0:00	33	16	0	2				
05/22/2020 0:00	Down	Down	Down	Down				
05/23/2020 0:00	Down	Down	Down	Down				
05/24/2020 0:00	Down	Down	Down	Down				
05/25/2020 0:00	Down	Down	Down	Down				
05/26/2020 0:00	104	43	1	5				
05/27/2020 0:00	37	9	0	1				
05/28/2020 0:00	58	15	0	1				
05/29/2020 0:00	29	9	0	1				
05/30/2020 0:00	Down	Down	Down	Down				
05/31/2020 0:00	Down	Down	Down	Down				
06/01/2020 0:00	30	11	0	1				
06/02/2020 0:00	66	16	0	1				
06/03/2020 0:00	82	33	1	4				
06/04/2020 0:00	66	24	0	2				
06/05/2020 0:00	48	10	0	1				
06/06/2020 0:00	Down	Down	Down	Down				
06/07/2020 0:00	Down	Down	Down	Down				
06/08/2020 0:00	69	18	0	2				
06/09/2020 0:00	53	21	0	2				
06/10/2020 0:00	91	39	1	4				
06/11/2020 0:00	51	20	0	2				
06/12/2020 0:00	Down	Down	Down	Down				
06/13/2020 0:00	Down	Down	Down	Down				
06/14/2020 0:00	8	2	0	0				
06/15/2020 0:00	Down	Down	Down	Down				
06/16/2020 0:00	Down	Down	Down	Down				
06/17/2020 0:00	39	10	0	1				
06/18/2020 0:00	61	15	0	2				
06/19/2020 0:00	21	4	0	0				
06/20/2020 0:00	11	2	0	0				
06/21/2020 0:00	42	19	0	3				
06/22/2020 0:00	74	24	0	3				
06/23/2020 0:00	47	16	0	1				
06/24/2020 0:00	61	17	0	2				
06/25/2020 0:00	78	26	0	3				
06/26/2020 0:00	93	32	1	4				
06/27/2020 0:00	61	22	0	2				
06/28/2020 0:00	Down	Down	Down	Down				
06/29/2020 0:00	49	12	0	1				
06/30/2020 0:00	56	18	0	2				

AQ-19: Daily Emission Limits: NOx, CO, POC, SO2 (Attachment 12)

7/3/2020 3:09:38 PM

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Unit Name: Mariposa Facility**Report Start Date/Time :** Wed 04/01/2020 0:00**Report End Date/Time :** Tue 06/30/2020 23:59

DATE/TIME	Daily NOx Lbs Limit 1100	Daily CO Lbs Limit 934	Daily POC Lbs Limit 95	Daily SO2 Lbs Limit 130				
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Total:	2680	838	14	85				
Average:	49	15	0	2				
Maximum:	104	43	1	5				
Minimum:	8	2	0	0				

Attachment 13

Condition AQ-20 Cumulative Rolling 12-Month CTG Emissions: NO_x, CO, POC, PM₁₀, SO₂ Emissions Report

Unit Name: Mariposa Facility

DATE/TIME	NOx Tons Limit 45.6	CO Tons Limit 27.2	POC Tons Limit 5.6	PM10 Tons Limit 18.6	SO2 Tons Limit 2.9
04/2020	7.3	2.3	0.0	0.7	0.2
05/2020	7.3	2.3	0.0	0.7	0.2
06/2020	7.4	2.4	0.0	0.7	0.2
Maximum:	7.4	2.4	0.0	0.7	0.2
Minimum:	7.3	2.3	0.0	0.7	0.2

Attachment 14

**Condition AQ-31 Sulfuric Acid
Emissions Report**

AQ-31: Facility SAM 12-Month Tons Limit (Attachment 14)

7/3/2020 3:10:16 PM

Page 1 of 1

Unit Name: Mariposa Facility

DATE/TIME	S-1:Unit 600 SAM Tons	S-2:Unit 700 SAM Tons	S-3:Unit 800 SAM Tons	S-4:Unit 900 SAM Tons	Facility SAM Tons Limit 7
04/2020	0.07	0.07	0.07	0.07	0.29
05/2020	0.08	0.08	0.07	0.07	0.30
06/2020	0.08	0.08	0.08	0.07	0.30
Maximum:	0.08	0.08	0.08	0.07	0.30
Minimum:	0.07	0.07	0.07	0.07	0.29

Attachment 15

**Condition AQ-35 Timely Notification
of Permit Condition Violations Report**

Condition AQ-35: Timely Notification of Permit Condition Violations Report

Permit Condition 24955, part 35 (AQ-35) states:

The owner/operator of the MEP shall notify the District and the CEC CPM of any violations of these permit conditions. Notification shall be submitted in a timely manner, in accordance with all applicable District Rules, Regulations, and the Manual of Procedures. Notwithstanding the notification and reporting requirements given in any District Rule, Regulation, or the Manual of Procedures, the owner/operator shall submit written notification (facsimile is acceptable) to the Enforcement Division within 96 hours of the violation of any permit condition.

There were no violations of any of the applicable permit conditions for Mariposa Energy LLC during the fourth quarter of 2018.

Attachment 16

**Condition AQ-38: 40 CFR Part 72.9(c)(1) SO₂ Allowances
and 40 CFR Part 75 CEM Requirements Report**


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2014 COMPLIANCE - ACID RAIN PROGRAM / CAIR SO2 ANNUAL PROGRAM

Compliance Results

Draft compliance has been automatically run for all of your facilities for which all of the appropriate emissions data for the compliance period has been submitted. The results are shown in the table below; any facilities with excess emissions are listed in a pop-up box.

You may run 'draft' compliance again for a facility by checking the box next to the account number and clicking the 'Select' button below the table. A pop-up box will appear stating 'Your changes have been saved.' Click 'OK,' then review the information for that facility; 'Draft' will be denoted in the 'Compliance Status' column until final compliance is run for that facility. If a 0 (zero) appears in the 'Excess Emissions' column, that means there are currently enough allowances in the compliance account for the facility to cover its emissions. You may run draft compliance for a facility as many times as you wish (e.g., after allowance transfers or emissions data resubmissions) until final compliance is run for that facility.

After the allowance transfer deadline, you may run final compliance for a facility if the term 'Accepted' is denoted in the 'Emissions Data Status' column for that facility. To do so, (1) select a facility by checking the box next to the account number, (2) check the box at the bottom of the table that reads 'Check to run final compliance' (this box will not be visible on the screen until the day after the allowance transfer deadline) and (3) click the 'Select' button.

Do not run final compliance if your emissions data are not final. If, for a specific facility, you resubmit emissions data after running final compliance for that facility, and the newly reported emissions are less than the emissions were at the time final compliance was run, the emissions tonnage difference in allowances will NOT be returned to you.

If you have any questions, contact Kenon Smith (202-343-9164) or Paula Branch (202-343-9168).

Results for Selected Facilities

Facility ID (ORISPL)	Facility Name	State	Run Status	Program	Allowances Held 1:1	Allowances Held 2:1	Emissions (tons)	Under-utilization Liability	Total Liability	Excess Emissions	Compliance Status	Compliance Run Date	Emissions Data Status	Last Updated By	Last Updated
057483FACILITY	Mariposa Energy Project	CA	Success	ARP	2	0	0	0	0	0	Draft	02/03/2015	Pending	Forsyth, Wayne	02/03/2015 12:53:39 P

[Continue](#)

Attachment 17

**Conditions AQ-39, AQ-40
S-6 Emergency Fire Pump
Operation Report
(BAAQMD Condition 22850, Parts 1 & 2)**

S-6 Diesel Fire Pump Driver Operating Log

Engine Model: JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
 6068HFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6

EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Summary				
Year	Months	Stop Timer Reading	Start Timer Reading	Total Actual Maintenance and Testing Hours
2019	January	164.6	162.6	2.0
2019	February	166.6	164.6	2.0
2019	March	168.6	166.6	2.0
2019	April	171.1	168.6	2.5
2019	May	173.1	171.1	2.0
2019	June	175.1	173.1	2.0
2019	July	177.6	175.1	2.5
2019	August	179.6	177.6	2.0
2019	September	182.1	179.6	2.5
2019	October	184.1	182.1	2.0
2019	November	186.1	184.1	2.0
2019	December	188.6	186.1	2.5
2020	January	190.6	188.6	2.0
2020	February	192.6	190.6	2.0
2020	March	195.3	192.6	2.7
2020	April	197.3	195.3	2.0
2020	May	199	197.3	1.7
2020	June	202	199.5	2.5

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
Size: 175 BHP 2011 Model Year
Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
Source No: 6

EPA Engine Family: BJDXL06.8120
Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
9/28/2012	0.0	1.6	Maintenance & Testing	DC	1.6	0	100%	16.6 gal	16.6 gal
10/21/2012	1.6	2.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	21.8 gal
10/29/2012	2.1	2.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	27.0 gal
11/7/2012	2.6	3.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	32.2 gal
11/12/2012	3.1	3.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	37.4 gal
11/21/2012	3.6	4.1	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	42.6 gal
11/26/2012	4.1	4.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	47.8 gal
12/3/2012	4.6	5.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	53.0 gal
12/13/2012	5.1	5.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	58.2 gal
12/18/2012	5.6	6.1	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	63.4 gal
12/27/2012	6.1	6.6	Maintenance & Testing	JR	0.5	0	100%	5.2 gal	68.6 gal
1/3/2013	6.6	7.1	Maintenance & Testing	DC	0.5	0	100%	5.2 gal	73.8 gal
1/10/2013	7.1	7.6	Maintenance & Testing	JM	0.5	0	87%	5.2 gal	79.0 gal
1/16/2013	7.6	8.1	Maintenance & Testing	CC	0.5	0	87%	5.2 gal	84.2 gal
1/22/2013	8.1	8.5	Maintenance & Testing	RR	0.4	0	87%	4.2 gal	88.4 gal
1/30/2013	8.5	9.1	Maintenance & Testing	DC	0.6	0	87%	6.2 gal	94.6 gal
2/7/2013	9.1	9.6	Maintenance & Testing	JM	0.5	0	87%	5.2 gal	99.8 gal
2/14/2013	9.6	10.1	Maintenance & Testing	RR	0.5	0	87%	5.2 gal	105.0 gal
2/18/2013	10.1	10.6	Maintenance & Testing	RR	0.5	0	87%	5.2 gal	110.2 gal
2/25/2013	10.6	11.1	Maintenance & Testing	DC	0.5	0	87%	5.2 gal	115.4 gal
3/4/2013	11.1	11.6	Maintenance & Testing	JM	0.5	0	87%	5.2 gal	120.6 gal
3/10/2013	11.6	12.1	Maintenance & Testing	RR	0.5	0	87%	5.2 gal	125.8 gal
3/16/2013	12.1	12.6	Maintenance & Testing	RR	0.5	0	87%	5.2 gal	131.0 gal
3/26/2013	12.6	13.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	136.2 gal
4/1/2013	13.1	13.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	141.4 gal
4/8/2013	13.6	14.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	146.6 gal
4/17/2013	14.1	14.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	151.8 gal
4/25/2013	14.6	15.1	Maintenance & Testing	D	0.5	0	75%	5.2 gal	157.0 gal
5/1/2013	15.1	15.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	162.2 gal
5/8/2013	15.6	16.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	167.4 gal
5/15/2013	16.1	16.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	172.6 gal
5/21/2013	16.6	17.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	177.8 gal
5/28/2013	17.1	17.6	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	183.0 gal
6/4/2013	17.6	18.1	Maintenance & Testing	AC	0.5	0	100%	5.2 gal	188.2 gal
6/12/2013	18.1	18.6	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	193.4 gal
6/17/2013	18.6	19.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	198.6 gal
6/25/2013	19.1	19.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	203.8 gal
7/3/2013	19.6	20.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	209.0 gal
7/8/2013	20.1	20.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	214.2 gal
7/15/2013	20.6	21.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	219.4 gal
7/22/2013	21.1	21.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	224.6 gal
7/29/2013	21.6	22.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	229.8 gal
8/5/2013	22.1	22.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	235.0 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
 Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6

EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
8/12/2013	22.6	23.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	240.2 gal
8/19/2013	23.1	23.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	245.4 gal
8/26/2013	23.6	24.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	250.6 gal
9/4/2013	24.1	24.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	255.8 gal
9/10/2013	24.6	25.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	261.0 gal
9/16/2013	25.1	25.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	266.2 gal
9/25/2013	25.6	26.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	271.4 gal
10/1/2013	26.1	26.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	276.6 gal
10/8/2013	26.6	27.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	281.8 gal
10/14/2013	27.1	27.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	287.0 gal
10/21/2013	27.6	28.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	292.2 gal
10/28/2013	28.1	28.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	297.4 gal
11/5/2013	28.6	29.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	302.6 gal
11/14/2013	29.1	29.6	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	307.8 gal
11/21/2013	29.6	30.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	313.0 gal
11/26/2013	30.1	30.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	318.2 gal
12/3/2013	30.6	31.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	323.4 gal
12/10/2013	31.1	31.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	328.6 gal
12/19/2013	31.6	32.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	333.8 gal
12/24/2013	32.1	32.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	339.0 gal
12/31/2013	32.6	33.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	344.2 gal
1/7/2014	33.1	33.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	349.4 gal
1/14/2014	33.6	34.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	354.6 gal
1/21/2014	34.1	34.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	359.8 gal
1/28/2014	34.6	35.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	365.0 gal
2/4/2014	35.1	35.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	370.2 gal
2/12/2014	35.6	36.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	375.4 gal
2/19/2014	36.1	36.6	Maintenance & Testing	DC	0.5	0	80%	5.2 gal	380.6 gal
2/26/2014	36.6	37.1	Maintenance & Testing	DC	0.5	0	80%	5.2 gal	385.8 gal
3/4/2014	37.1	37.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	391.0 gal
3/12/2014	37.6	38.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	396.2 gal
3/22/2014	38.1	38.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	401.4 gal
3/25/2014	38.6	39.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	406.6 gal
4/1/2014	39.1	39.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	411.8 gal
4/8/2014	39.6	40.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	417.0 gal
4/11/2014	40.1	40.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	422.2 gal
4/22/2014	40.6	41.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	427.4 gal
4/28/2014	41.1	41.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	432.6 gal
5/6/2014	41.6	42.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	437.8 gal
5/12/2014	42.1	42.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	443.0 gal
5/18/2014	42.6	43.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	448.2 gal
5/26/2014	43.1	43.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	453.4 gal
6/5/2014	43.6	44.1	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	458.6 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
Size: 175 BHP 2011 Model Year
Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
Source No: 6

EPA Engine Family: BJDXL06.8120
Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
6/12/2014	44.1	44.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	463.8 gal
6/18/2014	44.6	45.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	469.0 gal
6/26/2014	45.1	45.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	474.2 gal
7/2/2014	45.6	46.1	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	479.4 gal
7/8/2014	46.1	46.6	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	484.6 gal
7/15/2014	46.6	47.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	489.8 gal
7/21/2014	47.1	47.6	Maintenance & Testing	DC	0.5	0	100%	5.2 gal	495.0 gal
7/30/2014	47.6	48.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	500.2 gal
8/5/2014	48.1	48.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	505.4 gal
8/14/2014	48.6	49.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	510.6 gal
8/20/2014	49.1	49.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	515.8 gal
8/26/2014	49.6	50.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	521.0 gal
9/1/2014	50.1	50.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	526.2 gal
9/10/2014	50.6	51.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	531.4 gal
9/16/2014	51.1	51.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	536.6 gal
9/22/2014	51.6	52.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	541.8 gal
10/1/2014	52.1	52.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	547.0 gal
10/16/2014	52.6	53.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	552.2 gal
10/21/2014	53.1	53.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	557.4 gal
10/27/2014	53.6	54.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	562.6 gal
11/3/2014	54.1	54.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	567.8 gal
11/14/2014	54.6	55.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	573.0 gal
11/18/2014	55.1	55.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	578.2 gal
11/25/2014	55.6	56.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	583.4 gal
12/3/2014	56.1	56.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	588.6 gal
12/10/2014	56.6	57.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	593.8 gal
12/16/2014	57.1	57.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	599.0 gal
12/23/2014	57.6	58.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	604.2 gal
12/31/2014	58.1	58.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	609.4 gal
1/8/2015	58.6	59.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	614.6 gal
1/15/2015	59.1	59.6	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	619.8 gal
1/21/2015	59.6	60.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	625.0 gal
1/29/2015	60.1	60.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	630.2 gal
2/4/2015	60.6	61.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	635.4 gal
2/10/2015	61.1	61.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	640.6 gal
2/16/2015	61.6	62.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	645.8 gal
2/24/2015	62.1	62.6	Maintenance & Testing	DC	0.5	0	100%	5.2 gal	651.0 gal
3/4/2015	62.6	63.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	656.2 gal
3/11/2015	63.1	63.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	661.4 gal
3/18/2015	63.6	64.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	666.6 gal
3/25/2015	64.1	64.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	671.8 gal
3/31/2015	64.6	65.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	677.0 gal
4/7/2015	65.1	65.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	682.2 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
Size: 175 BHP 2011 Model Year
Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
Source No: 6

EPA Engine Family: BJDXL06.8120
Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
4/15/2015	65.6	66.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	687.4 gal
4/23/2015	66.1	66.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	692.6 gal
4/27/2015	66.6	67.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	697.8 gal
5/5/2015	67.1	67.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	703.0 gal
5/14/2015	67.6	68.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	708.2 gal
5/21/2015	68.1	68.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	713.4 gal
5/27/2015	68.6	69.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	718.6 gal
6/4/2015	69.1	69.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	723.8 gal
6/10/2015	69.6	70.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	729.0 gal
6/18/2015	70.1	70.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	734.2 gal
6/24/2015	70.6	71.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	739.4 gal
6/30/2015	71.1	71.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	744.6 gal
7/8/2015	71.6	72.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	749.8 gal
7/15/2015	72.1	72.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	755.0 gal
7/22/2015	72.6	73.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	760.2 gal
7/29/2015	73.1	73.6	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	765.4 gal
8/3/2015	73.6	74.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	770.6 gal
8/11/2015	74.1	74.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	775.8 gal
8/19/2015	74.6	75.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	781.0 gal
8/25/2015	75.1	75.6	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	786.2 gal
9/1/2015	75.6	76.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	791.4 gal
9/7/2015	76.1	76.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	796.6 gal
9/15/2015	76.6	77.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	801.8 gal
9/22/2015	77.1	77.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	807.0 gal
9/28/2015	77.6	77.6	Maintenance & Testing	RR	0.0	0	100%	0.0 gal	807.0 gal
10/9/2015	77.6	78.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	812.2 gal
10/15/2015	78.1	78.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	817.4 gal
10/20/2015	78.6	79.1	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	822.6 gal
10/26/2015	79.1	79.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	827.8 gal
11/4/2015	79.6	80.1	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	833.0 gal
11/11/2015	80.1	80.6	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	838.2 gal
11/16/2015	80.6	81.1	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	843.4 gal
11/24/2015	81.1	81.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	848.6 gal
12/1/2015	81.6	82.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	853.8 gal
12/6/2015	82.1	82.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	859.0 gal
12/13/2015	82.6	83.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	864.2 gal
12/20/2015	83.1	83.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	869.4 gal
12/27/2015	83.6	84.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	874.6 gal
1/6/2016	84.1	84.6	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	879.8 gal
1/13/2016	84.6	85.1	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	885.0 gal
1/20/2016	85.1	85.6	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	890.2 gal
1/26/2016	85.6	86.1	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	895.4 gal
2/3/2016	86.1	86.6	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	900.6 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
Size: 175 BHP 2011 Model Year
Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
Source No: 6

EPA Engine Family: BJDXL06.8120
Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
2/9/2016	86.6	87.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	905.8 gal
2/16/2016	87.1	87.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	911.0 gal
2/24/2016	87.6	88.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	916.2 gal
3/3/2016	88.1	88.6	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	921.4 gal
3/8/2016	88.6	89.1	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	926.6 gal
3/14/2016	89.1	89.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	931.8 gal
3/21/2016	89.6	90.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	937.0 gal
3/31/2016	90.1	90.6	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	942.2 gal
4/6/2016	90.6	91.1	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	947.4 gal
4/11/2016	91.1	91.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	952.6 gal
4/25/2016	91.6	92.1	Maintenance & Testing	FP	0.5	0	88%	5.2 gal	957.8 gal
5/2/2016	92.1	92.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	963.0 gal
5/9/2016	92.6	93.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	968.2 gal
5/16/2016	93.1	93.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	973.4 gal
5/23/2016	93.6	94.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	978.6 gal
5/30/2016	94.1	94.6	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	983.8 gal
6/6/2016	94.6	95.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	989.0 gal
6/13/2016	95.1	95.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	994.2 gal
6/20/2016	95.6	96.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	999.4 gal
6/27/2016	96.1	96.6	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1004.6 gal
7/4/2016	96.6	97.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1009.8 gal
7/11/2016	97.1	97.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1015.0 gal
7/18/2016	97.6	98.1	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1020.2 gal
7/25/2016	98.1	98.6	Maintenance & Testing	CC	0.5	0	95%	5.2 gal	1025.4 gal
8/1/2016	98.6	99.1	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1030.6 gal
8/8/2016	99.1	99.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1035.8 gal
8/15/2016	99.6	100.1	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1041.0 gal
8/22/2016	100.1	100.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	1046.2 gal
8/29/2016	100.6	101.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1051.4 gal
9/5/2016	101.1	101.6	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	1056.6 gal
9/12/2016	101.6	102.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	1061.8 gal
9/19/2016	102.1	102.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	1067.0 gal
9/26/2016	102.6	103.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1072.2 gal
10/8/2016	103.1	103.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1077.4 gal
10/10/2016	103.6	104.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	1082.6 gal
10/17/2016	104.1	104.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	1087.8 gal
10/24/2016	104.6	105.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1093.0 gal
10/31/2016	105.1	105.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	1098.2 gal
11/7/2016	105.6	106.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1103.4 gal
11/14/2016	106.1	106.6	Maintenance & Testing	CC	0.5	0	80%	5.2 gal	1108.6 gal
11/21/2016	106.6	107.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1113.8 gal
11/28/2016	107.1	107.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	1119.0 gal
12/5/2016	107.6	108.1	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1124.2 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
Size: 175 BHP 2011 Model Year
Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
Source No: 6

EPA Engine Family: BJDXL06.8120
Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
12/12/2016	108.1	108.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	1129.4 gal
12/19/2016	108.6	109.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	1134.6 gal
12/26/2016	109.1	109.6	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	1139.8 gal
1/2/2017	109.6	110.1	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1145.0 gal
1/9/2017	110.1	110.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	1150.2 gal
1/16/2017	110.6	111.1	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1155.4 gal
1/23/2017	111.1	111.6	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	1160.6 gal
1/30/2017	111.6	112.1	Maintenance & Testing	FP	0.5	0	95%	5.2 gal	1165.8 gal
2/6/2017	112.1	112.6	Maintenance & Testing	CC	0.5	0	90%	5.2 gal	1171.0 gal
2/13/2017	112.6	113.1	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1176.2 gal
2/20/2017	113.1	113.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1181.4 gal
2/27/2017	113.6	114.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	1186.6 gal
3/6/2017	114.1	114.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	1191.8 gal
3/13/2017	114.6	115.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1197.0 gal
3/20/2017	115.1	115.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	1202.2 gal
3/27/2017	115.6	116.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1207.4 gal
4/3/2017	116.1	116.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	1212.6 gal
4/10/2017	116.6	117.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1217.8 gal
4/17/2017	117.1	117.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	1223.0 gal
4/24/2017	117.6	118.1	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1228.2 gal
5/1/2017	118.1	118.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	1233.4 gal
5/8/2017	118.6	119.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	1238.6 gal
5/15/2017	119.1	119.6	Maintenance & Testing	FP	0.5	0	95%	5.2 gal	1243.8 gal
5/22/2017	119.6	120.1	Maintenance & Testing	CC	0.5	0	95%	5.2 gal	1249.0 gal
5/29/2017	120.1	120.6	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1254.2 gal
6/5/2017	120.6	121.1	Maintenance & Testing	CC	0.5	0	95%	5.2 gal	1259.4 gal
6/12/2017	121.1	121.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1264.6 gal
6/19/2017	121.6	122.1	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1269.8 gal
6/26/2017	122.1	122.6	Maintenance & Testing	CC	0.5	0	90%	5.2 gal	1275.0 gal
7/3/2017	122.6	123.1	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1280.2 gal
7/10/2017	123.1	123.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1285.4 gal
7/17/2017	123.6	124.1	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1290.6 gal
7/24/2017	124.1	124.6	Maintenance & Testing	CC	0.5	0	80%	5.2 gal	1295.8 gal
7/31/2017	124.6	125.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1301.0 gal
8/7/2017	125.1	125.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1306.2 gal
8/14/2017	125.6	126.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1311.4 gal
8/21/2017	126.1	126.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	1316.6 gal
8/28/2017	126.6	127.1	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1321.8 gal
9/3/2017	127.1	127.6	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	1327.0 gal
9/11/2017	127.6	128.1	Maintenance & Testing	FP	0.5	0	95%	5.2 gal	1332.2 gal
9/18/2017	128.1	128.6	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1337.4 gal
9/26/2017	128.6	129.1	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1342.6 gal
10/3/2017	129.1	129.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1347.8 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
 Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6

EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
10/9/2017	129.6	130.1	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1353.0 gal
10/16/2017	130.1	130.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1358.2 gal
10/23/2017	130.6	131.1	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1363.4 gal
10/30/2017	131.1	131.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1368.6 gal
11/6/2017	131.6	132.1	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1373.8 gal
11/13/2017	132.1	132.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1379.0 gal
11/20/2017	132.6	133.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1384.2 gal
11/27/2017	133.1	133.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1389.4 gal
12/4/2017	133.6	134.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1394.6 gal
12/11/2017	134.1	134.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1399.8 gal
12/18/2017	134.6	135.1	Maintenance & Testing	JJ	0.5	0	80%	5.2 gal	1405.0 gal
12/25/2017	135.1	135.6	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1410.2 gal
1/1/2018	135.6	136.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1415.4 gal
1/8/2018	136.1	136.6	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1420.6 gal
1/15/2018	136.6	137.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1425.8 gal
1/22/2018	137.1	137.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1431.0 gal
1/29/2018	137.6	138.1	Maintenance & Testing	DB	0.5	0	100%	5.2 gal	1436.2 gal
2/5/2018	138.1	138.6	Maintenance & Testing	DB	0.5	0	100%	5.2 gal	1441.4 gal
2/12/2018	138.6	139.1	Maintenance & Testing	DB	0.5	0	100%	5.2 gal	1446.6 gal
2/19/2018	139.1	139.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1451.8 gal
2/26/2018	139.6	140.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1457.0 gal
3/5/2018	140.1	140.6	Maintenance & Testing	GP	0.5	0	100%	5.2 gal	1462.2 gal
3/12/2018	140.6	141.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	1467.4 gal
3/19/2018	141.1	141.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1472.6 gal
3/26/2018	141.6	142.1	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1477.8 gal
4/3/2018	142.1	142.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1483.0 gal
4/9/2018	142.6	143.1	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1488.2 gal
4/16/2018	143.1	143.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1493.4 gal
4/23/2018	143.6	144.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1498.6 gal
4/30/2018	144.1	144.6	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1503.8 gal
5/7/2018	144.6	145.1	Maintenance & Testing	DB	0.5	0	80%	5.2 gal	1509.0 gal
5/14/2018	145.1	145.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1514.2 gal
5/21/2018	145.6	146.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1519.4 gal
5/29/2018	146.1	146.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1524.6 gal
6/5/2018	146.6	147.1	Maintenance & Testing	DB	0.5	0	80%	5.2 gal	1529.8 gal
6/11/2018	147.1	147.6	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1535.0 gal
6/18/2018	147.6	148.1	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1540.2 gal
6/25/2018	148.1	148.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1545.4 gal
7/2/2018	148.6	149.1	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1550.6 gal
7/9/2018	149.1	149.6	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1555.8 gal
7/16/2018	149.6	150.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1561.0 gal
7/23/2018	150.1	150.6	Maintenance & Testing	DB	0.5	0	80%	5.2 gal	1566.2 gal
7/30/2018	150.6	151.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1571.4 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
 Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6

EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
8/6/2018	151.1	151.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	1576.6 gal
8/13/2018	151.6	152.1	Maintenance & Testing	DB	0.5	0	80%	5.2 gal	1581.8 gal
8/20/2018	152.1	152.6	Maintenance & Testing	DB	0.5	0	80%	5.2 gal	1587.0 gal
8/27/2018	152.6	153.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1592.2 gal
9/3/2018	153.1	153.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	1597.4 gal
9/10/2018	153.6	154.1	Maintenance & Testing	DB	0.5	0	75%	5.2 gal	1602.6 gal
9/17/2018	154.1	154.6	Maintenance & Testing	DB	0.5	0	75%	5.2 gal	1607.8 gal
9/24/2018	154.6	155.1	Maintenance & Testing	DB	0.5	0	100%	5.2 gal	1613.0 gal
10/1/2018	155.1	155.6	Maintenance & Testing	DB	0.5	0	100%	5.2 gal	1618.2 gal
10/8/2018	155.6	156.1	Maintenance & Testing	FP	0.5	0	95%	5.2 gal	1623.4 gal
10/18/2018	156.1	156.6	Maintenance & Testing	GP	0.5	0	95%	5.2 gal	1628.6 gal
10/22/2018	156.6	157.1	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1633.8 gal
10/29/2018	157.1	157.6	Maintenance & Testing	GP	0.5	0	95%	5.2 gal	1639.0 gal
11/2/2018	157.6	158.1	Annual Maintenance & Testing	GP	0.5	0	95%	5.2 gal	1644.2 gal
11/5/2018	158.1	158.6	Maintenance & Testing	DAB	0.5	0	95%	5.2 gal	1649.4 gal
11/1/2018	158.6	159.1	Maintenance & Testing	DAB	0.5	0	95%	5.2 gal	1654.6 gal
11/19/2018	159.1	159.6	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1659.8 gal
11/26/2018	159.6	160.1	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	1665.0 gal
12/3/2018	160.1	160.6	Maintenance & Testing	DAB	0.5	0	95%	5.2 gal	1670.2 gal
12/10/2018	160.6	161.1	Maintenance & Testing	GP	0.5	0	95%	5.2 gal	1675.4 gal
12/17/2018	161.1	161.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1680.6 gal
12/24/2018	161.6	162.1	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1685.8 gal
12/31/2018	162.1	162.6	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1691.0 gal
1/7/2019	162.6	163.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1696.2 gal
1/14/2019	163.1	163.6	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1701.4 gal
1/21/2019	163.6	164.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	1706.6 gal
1/28/2019	164.1	164.6	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1711.8 gal
2/4/2019	164.6	165.1	Maintenance & Testing	GP	0.5	0	100%	5.2 gal	1717.0 gal
2/11/2019	165.1	165.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1722.2 gal
2/18/2019	165.6	166.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	1727.4 gal
2/28/2019	166.1	166.6	Maintenance & Testing	FP	0.5	0	75%	5.2 gal	1732.6 gal
3/4/2019	166.6	167.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	1737.8 gal
3/11/2019	167.1	167.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	1743.0 gal
3/18/2019	167.6	168.1	Maintenance & Testing	GP	0.5	0	75%	5.2 gal	1748.2 gal
3/25/2019	168.1	168.6	Maintenance & Testing	GP	0.5	0	75%	5.2 gal	1753.4 gal
4/1/2019	168.6	169.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1758.6 gal
4/8/2019	169.1	169.6	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	1763.8 gal
4/15/2019	169.6	170.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1769.0 gal
4/22/2019	170.1	170.6	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1774.2 gal
4/29/2019	170.6	171.1	Maintenance & Testing	GP	0.5	0	100%	5.2 gal	1779.4 gal
5/6/2019	171.1	171.6	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	1784.6 gal
5/13/2019	171.6	172.1	Maintenance & Testing	DAB	0.5	0	100%	5.2 gal	1789.8 gal
5/22/2019	172.1	172.6	Maintenance & Testing	GP	0.5	0	95%	5.2 gal	1795.0 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
 Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6

EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
5/29/2019	172.6	173.1	Maintenance & Testing	GP	0.5	0	95%	5.2 gal	1800.2 gal
6/3/2019	173.1	173.6	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1805.4 gal
6/10/2019	173.6	174.1	Maintenance & Testing	DAB	0.5	0	95%	5.2 gal	1810.6 gal
6/17/2019	174.1	174.6	Maintenance & Testing	GP	0.5	0	95%	5.2 gal	1815.8 gal
6/24/2019	174.6	175.1	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1821.0 gal
7/1/2019	175.1	175.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1826.2 gal
7/8/2019	175.6	176.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1831.4 gal
7/15/2019	176.1	176.6	Maintenance & Testing	DB	0.5	0	75%	5.2 gal	1836.6 gal
7/22/2019	176.6	177.1	Maintenance & Testing	GP	0.5	0	75%	5.2 gal	1841.8 gal
7/29/2019	177.1	177.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1847.0 gal
8/5/2019	177.6	178.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	1852.2 gal
8/12/2019	178.1	178.6	Maintenance & Testing	FP	0.5	0	75%	5.2 gal	1857.4 gal
8/19/2019	178.6	179.1	Maintenance & Testing	GP	0.5	0	100%	5.2 gal	1862.6 gal
8/26/2019	179.1	179.6	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1867.8 gal
9/2/2019	179.6	180.1	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	1873.0 gal
9/9/2019	180.1	180.6	Maintenance & Testing	DB	0.5	0	95%	5.2 gal	1878.2 gal
9/16/2019	180.6	181.1	Maintenance & Testing	GP	0.5	0	90%	5.2 gal	1883.4 gal
9/23/2019	181.1	181.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1888.6 gal
9/30/2019	181.6	182.1	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1893.8 gal
10/7/2019	182.1	182.6	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	1899.0 gal
10/14/2019	182.6	183.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	1904.2 gal
10/28/2019	183.6	184.1	Maintenance & Testing	DB	0.5	0	90%	5.2 gal	1909.4 gal
11/4/2019	184.1	184.6	Maintenance & Testing	GP	0.5	0	90%	5.2 gal	1914.6 gal
11/11/2019	184.6	185.1	Maintenance & Testing	GP	0.5	0	90%	5.2 gal	1919.8 gal
11/18/2019	185.1	185.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1925.0 gal
11/25/2019	185.6	186.1	Maintenance & Testing	DAB	0.5	0	90%	5.2 gal	1930.2 gal
12/2/2019	186.1	186.6	Maintenance & Testing	DAB	0.5	0	90%	5.2 gal	1935.4 gal
12/9/2019	186.6	187.1	Maintenance & Testing	GP	0.5	0	90%	5.2 gal	1940.6 gal
12/16/2019	187.1	187.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1945.8 gal
12/23/2019	187.6	188.1	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	1951.0 gal
12/30/2019	188.1	188.6	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	1956.2 gal
1/6/2020	188.6	189.1	Maintenance & Testing	GP	0.5	0	90%	5.2 gal	1961.4 gal
1/13/2020	189.1	189.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1966.6 gal
1/20/2020	189.6	190.1	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1971.8 gal
1/27/2020	190.1	190.6	Maintenance & Testing	DAB	0.5	0	90%	5.2 gal	1977.0 gal
2/3/2020	190.6	191.1	Maintenance & Testing	GP	0.5	0	85%	5.2 gal	1982.2 gal
2/10/2020	191.1	191.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1987.4 gal
2/17/2020	191.6	192.1	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	1992.6 gal
2/24/2020	192.1	192.6	Maintenance & Testing	DAB	0.5	0	85%	5.2 gal	1997.8 gal
3/2/2020	192.6	193.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	2003.0 gal
3/3/2020	193.1	193.3	Maintenance & Testing	RR	0.0	0	85%	5.2 gal	2008.2 gal
3/9/2020	193.3	193.8	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	2013.4 gal
3/16/2020	193.8	194.3	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	2018.6 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
 Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6

EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
3/23/2020	194.3	194.8	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	2023.8 gal
3/30/2020	194.8	195.3	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	2029.0 gal
4/6/2020	195.3	195.8	Maintenance & Testing	DAB	0.5	0	88%	5.2 gal	2034.2 gal
4/13/2020	195.8	196.3	Maintenance & Testing	DAB	0.5	0	88%	5.2 gal	2039.4 gal
4/20/2020	196.3	196.8	Maintenance & Testing	GP	0.5	0	78%	5.2 gal	2044.6 gal
4/27/2020	196.8	197.3	Maintenance & Testing	GP	0.5	0	88%	5.2 gal	2049.8 gal
5/4/2020	197.3	197.8	Maintenance & Testing	DAB	0.5	0	75%	5.2 gal	2055.0 gal
5/11/2020	197.8	198.3	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	2060.2 gal
5/22/2020	198.3	199.0	Maintenance & Testing	DAB	0.8	0	75%	5.2 gal	2065.4 gal
5/28/2020	199.0	199.5	Maintenance & Testing		0.8	0	88%	5.2 gal	2070.6 gal
6/1/2020	199.5	200.0	Maintenance & Testing	DAB	0.5	0	100%	5.2 gal	2075.8 gal
6/8/2020	200.0	200.5	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	2081.0 gal
6/15/2020	200.5	201.0	Maintenance & Testing	GP	0.5	0	100%	5.2 gal	2086.2 gal
6/22/2020	201.0	201.5	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	2091.4 gal
6/29/2020	201.5	202.0	Maintenance & Testing	GP	0.5	0	88%	5.2 gal	2096.6 gal
7/6/2020	202.0	202.5	Maintenance & Testing	GP	0.5	0	88%	5.2 gal	2101.8 gal
7/7/2020	202.5	202.5	Maintenance & Testing	GP	0.0	0	88%	5.2 gal	2107.0 gal
7/13/2020	202.5	203.0	Maintenance & Testing	GP	0.5	0	88%	5.2 gal	2112.2 gal

Permit Annual Limit = 50 hours/year for reliability-related (maintenance & testing) testing.
 Emergency hours of operation is not limited.

Hours of operation for emission testing to show compliance with District, State or Federal emission limits is not limited.

Fuel tank level is required to be at least 3/4 full. If fuel tank is less than 3/4 full, schedule delivery

**S-6 Fire Pump Engine replaced S-5 on September 28, 2012 (BAAQMD Application Number 24687).

Attachment 18

**Condition AQ-41
S-6 Emergency Fire Pump
Totalizing Meter Report
(BAAQMD Condition 22850, Part 3)**

Attachment 18
S-6 Emergency Fire Pump Totalizing Meter Report

To demonstrate compliance with CEC Condition AQ-41 (BAAQMD Condition 22850, Part 3), the following photographs are provided as evidence of compliance.



S-6 Emergency Fire Pump



S-6 Control Unit



S-6 Controller, Showing Fire Pump Operating Hours

