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April 28, 2023

Dr. Anwar Ali Compliance Project Manager Siting, Transmission and Environmental Protection Division Compliance Monitoring and Enforcement Office California Energy Commission 715 P Street Sacramento, CA 95814 anwar.ali@energy.ca.gov

Subject: 2023 Q1 Compliance Report January 1, 2023 through March 31, 2023 Malburg Generating Station (01-AFC-25C)

Dr. Ali,

Attached please find the Quarterly Compliance Report for the Malburg Generating Station (01-AFC-25C), covering the operational period of January 1, 2023 through March 31, 2023. This report addresses all quarterly requirements identified in the Final Commission Decision for the Malburg Generating Station (TN #28746), as most recently amended on June 20, 2019 by the Errata to Staff Analysis of Petition to Amend the Final Commission Decision (TN #228444).

If you have any questions or need more information, please contact Matt Richards, Utilities Operations Manager, at <u>MRighards@cityofvernon.org</u> or (323) 583-8811 x378.

Sincerely,

Rich Olsen Assistant General Manager of Generation & Operations City of Vernon, Public Utilities Department

Enclosure: MGS 2023 Q1 Compliance Report

Exclusively Industrial

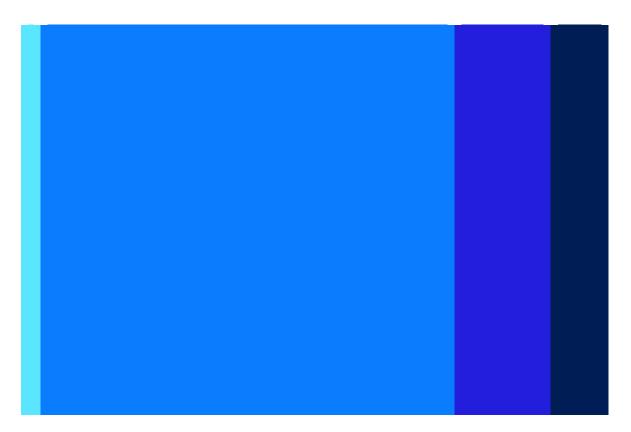
Malburg Generating Station Quarterly Compliance Report (First Quarter 2023)

Submitted to California Energy Commission

Submitted by City of Vernon, Public Utilities Department

April 28, 2023

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Acronyms and Abbreviations

CEC	California Energy Commission's
CEMS	continuous emissions monitoring system
CO	carbon monoxide
COC	Conditions of Certification
CTGs	combustion turbine generators
DAHS	data acquisition and handling system
gr/scf	grain per standard cubic foot
HRSGs	heat recovery steam generators
lb/day	pounds per day
MGS	Malburg Generating Station
NH ₃	ammonia
NOx	nitrogen oxides
PM10	10 microns
PM _{2.5}	2.5 microns
ppm	parts per million
ppmv	parts per million by volume
ppmw	parts per million by weight
QCR	Quarterly Compliance Report
SOx	sulfur oxides
STG	steam turbine generator
TDS	total dissolved solids
VOC	volatile organic compound

1. Introduction

This Quarterly Compliance Report (QCR) has been prepared to meet the California Energy Commission's (CEC) quarterly reporting requirements for the Malburg Generating Station (MGS). This QCR fulfills various Conditions of Certification (COC) described in the CEC's Final Commission Decision for the MGS (TN #28746), as most recently amended on June 20, 2019 by the Errata to Staff Analysis of Petition to Amend the Final Commission Decision (TN #228444).

1.1 Project Location and Description

The MGS is located at 4963 S Soto Street in Vernon, California. The property is approximately 3.4 acres in size, located in an industrial land use area near the geographic center of metropolitan Los Angeles County. MGS consists of two Siemens SGT-800 frame type natural gas combustion turbine generators (CTGs), two associated natural gas combustion duct burners, two heat recovery steam generators (HRSGs), a steam turbine generator (STG), a cooling tower, a diesel-fired emergency firewater pump, and support equipment.

The commissioning of MGS was completed in October 2005 and the power plant began commercial operation on October 17, 2005.

1.2 Organization of the Quarterly Compliance Report

A summary of the compliance demonstration for each applicable COC is provided in Section 2 and includes references to Appendices and Tables as appropriate.

2. Required Quarterly Compliance Report Documentation

COC requirements associated with this QCR are summarized in the table below.

Condition of Certification	Response
AQ-C6	The weekly total dissolved solids (TDS) results for the first quarter of 2023 are provided in Appendix A, Table 2; the weekly sample reports collected for the same period are provided in Appendix B.
AQ-C7	Daily particulate matter with aerodynamic diameter less than or equal to 10 microns (PM_{10}) emissions from cooling tower operation during the first quarter of 2023 are provided in Appendix A, Tables 3 through 5. As shown, emissions were below the specified limit of 6.2 pounds per day (lb/day).
AQ-C8	Testing times for the diesel-fired emergency firewater pump during the first quarter of 2023 are provided in Appendix C, Table 2. MGS refrained from testing the diesel-fired emergency firewater pump in the same hour the CTGs were either started or shutdown.
AQ-C9	The CTG startup and shutdown details for the first quarter of 2023, including the duration and date of occurrence, are provided in Appendix C, Table 1.
AQ-C11	All ammonia (NH ₃), nitrogen oxides (NOx), sulfur oxides (SOx), carbon monoxide (CO), PM ₁₀ , and volatile organic compound (VOC) emissions from MGS operation during the first quarter of 2023 are provided in Appendix A, Table 1.
AQ-2	Low sulfur diesel fuel was last purchased on April 11, 2022. The fuel purchase record is provided in Appendix D and demonstrates that the fuel does not contain sulfur compounds in excess of 15 parts per million by weight (ppmw).
AQ-3	See the response for COC AQ-2.

Table 2-1. Required Quarterly Compliance Report Documentation

Condition of	
Certification	Response
AQ-5	Monthly emissions of CO, PM_{10} , particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), VOC, and SOx from CTG and duct burner operation during the first quarter of 2023 are presented in Appendix A, Tables 7 through 9. Fuel usage for each turbine-duct burner pair is provided in Appendix A, Table 6. As shown, emissions were below the monthly limits specified in Condition A63.4 of the site's Title V Permit.
AQ-6	See the response for COC AQ-C9.
AQ-9	See the response for COC AQ-C11. Additionally, quarterly NOx excess emission reports from the data acquisition and handling system (DAHS) are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected NOx emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 parts per million by volume (ppmv). All continuous emissions monitoring system (CEMS) data for MGS' CTGs are stored electronically onsite.
AQ-10	See the response for COC AQ-C11. Additionally, quarterly CO excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected CO emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 ppmv. All CEMS data for MGS' CTGs are stored electronically onsite.
AQ-11	See the response for COC AQ-C11. Additionally, quarterly VOC excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected VOC emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 ppmv. All CEMS data for MGS' CTGs are stored electronically onsite.
AQ-12	See the response for COC AQ-C11. Additionally, compliance with the specified limit of 5 parts per million (ppm) is primarily demonstrated through annual or quarterly source testing. The most recent NH ₃ compliance source test, performed on November 1, 2022 with results submitted to the CEC on November 16, 2022, indicated compliance with the emission limits for both CTGs (0.6 ppm for CTG 1 and 0.5 ppm for CTG 2). NH ₃ emissions are also calculated via the CEMS on an hourly basis and confirmed to comply with the NH ₃ concentration limit of 5 ppm.
AQ-13	See the response for COC AQ-C11. Additionally, the most recent triennial compliance source test, performed in July 2022, indicated compliance with the Rule 475 particulate matter emission limits of 5 kilograms per hour (11 pounds per hour [lb/hr]) or 23 milligrams per cubic meter (0.01 grain per standard cubic foot [gr/scf]) for both CTGs (0.67 lb/hr and 0.0003 gr/scf for CTG 1 and 1.83 lb/hr and 0.0007 gr/scf for CTG 2).
AQ-14	See the response for COC AQ-2.
AQ-15	Quarterly hours of operation for the diesel-fired emergency firewater pump are provided in Appendix A, Table 10. As shown, the first quarter 2023 hours for maintenance and testing did not exceed 50 hours and the total operational hours did not exceed 200 hours.
AQ-27	See the response for COC AQ-5. As shown, fuel consumption per turbine-duct burner pair did not exceed the specified limit of 405 million cubic feet per month.
AQ-36	See the responses for COCs AQ-5 and AQ-6.

Malburg Generating Station Quarterly Compliance Report (First Quarter 2023)

Appendix A MGS Emission Calculations

Reporting Period: Quarter 1 2023

Table 1. Quarterly Emissions - January 1, 2023 through March 31, 2023

	Quarterly Emissions (lb/quarter)					
Source	NOx	CO	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃
CTG 1 & Duct Burner	3,361	1,277	704	126	2,749	4,187
CTG 2 & Duct Burner	2,302	776	490	88	1,912	2,902
Cooling Tower					127	
Diesel Firewater Pump	34.1	1.0	0.2	0.0	0.2	0.1
Total	5,697	2,055	1,194	214	4,789	7,090

Reporting Period: Quarter 1 2023

Table 2. Cooling Tower Total Dissolved Solids (TDS) Sampling Results¹

Sampling Period		
Start Date	End Date	TDS (ppm)
1/1/2023	1/7/2023	5,090
1/8/2023	1/14/2023	4,290
1/15/2023	1/21/2023	4,300
1/22/2023	1/28/2023	3,960
1/29/2023	2/4/2023	4,060
2/5/2023	2/11/2023	4,420
2/12/2023	2/18/2023	4,460
2/19/2023	2/25/2023	4,400
2/26/2023	3/4/2023	4,400
3/5/2023	3/11/2023	4,860
3/12/2023	3/18/2023	4,660
3/19/2023	3/25/2023	4,400
3/26/2023	4/1/2023	3,200

¹ Sampling results taken from Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR.

Reporting Period: January 2023

Cooling Tower Total Dissolved Solids (TDS) Sampling Results

Data Source: Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR

	Period		
Sample Date	Start Date	End Date	TDS (ppm)
1/4/2023	1/1/2023	1/7/2023	5,090
1/10/2023	1/8/2023	1/14/2023	4,290
1/17/2023	1/15/2023	1/21/2023	4,300
1/24/2023	1/22/2023	1/28/2023	3,960
1/30/2023	1/29/2023	2/4/2023	4,060

Methodology (per Condition of Certification [COC] AQ-C7)

PM₁₀ Emissions (lb/day) = Circulation Rate (gal/day) x Density of Water (lb/gal) x Total Dissolved Solids (ppm) / 1,000,000 x Drift Factor (%) / 100 x Correction Factor

Constants			
Parameter	Value		
Circulation Rate per	13 500		
Pump (gal/min) ¹	13,500		
Number of Pumps	2		
Total Circulation Rate	27,000		
(gal/min)			
Water Density	8.334		
(lb/gal)	8.554		
Drift Factor (%) ²	0.0005		
Correction Factor	0.3		
(unitless) ³	0.2		

¹ Source: M3-10 Main Circulating Water System P&ID.

² Per COC AQ-C4.

³ Source: SPX Cooling Technologies' Cooling Tower Drift Mass Distribution.

Cooling	Tower	Daily	PM ₁₀	Emissions
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	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day
Date	(gal/day) ¹	TDS (ppm)	(lb/day)	PM ₁₀ Limit? ²
1/1/2023	38,880,000	5,090	1.65	No
1/2/2023	38,880,000	5,090	1.65	No
1/3/2023	38,880,000	5,090	1.65	No
1/4/2023	38,880,000	5,090	1.65	No
1/5/2023	38,880,000	5,090	1.65	No
1/6/2023	38,880,000	5,090	1.65	No
1/7/2023	38,880,000	5,090	1.65	No
1/8/2023	38,880,000	4,290	1.39	No
1/9/2023	38,880,000	4,290	1.39	No
1/10/2023	38,880,000	4,290	1.39	No
1/11/2023	38,880,000	4,290	1.39	No
1/12/2023	38,880,000	4,290	1.39	No
1/13/2023	38,880,000	4,290	1.39	No
1/14/2023	38,880,000	4,290	1.39	No
1/15/2023	38,880,000	4,300	1.39	No
1/16/2023	38,880,000	4,300	1.39	No
1/17/2023	38,880,000	4,300	1.39	No
1/18/2023	38,880,000	4,300	1.39	No
1/19/2023	38,880,000	4,300	1.39	No
1/20/2023	38,880,000	4,300	1.39	No
1/21/2023	38,880,000	4,300	1.39	No
1/22/2023	38,880,000	3,960	1.28	No
1/23/2023	38,880,000	3,960	1.28	No
1/24/2023	38,880,000	3,960	1.28	No
1/25/2023	38,880,000	3,960	1.28	No
1/26/2023	38,880,000	3,960	1.28	No
1/27/2023	38,880,000	3,960	1.28	No
1/28/2023	38,880,000	3,960	1.28	No
1/29/2023	38,880,000	4,060	1.32	No
1/30/2023	38,880,000	4,060	1.32	No
1/31/2023	38,880,000	4,060	1.32	No

¹ Maximum daily circulation rate conservatively used to estimate PM₁₀ emissions when the cooling tower is operated for any part of the day. Circulation rate is zero for days the cooling tower is not operated at all.

² Daily emissions limit established in COC AQ-C7.

Reporting Period: February 2023

Cooling Tower Total Dissolved Solids (TDS) Sampling Results

Data Source: Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR

	Period		
Sample Date	Start Date	End Date	TDS (ppm)
1/30/2023	1/29/2023	2/4/2023	4,060
2/7/2023	2/5/2023	2/11/2023	4,420
2/15/2023	2/12/2023	2/18/2023	4,460
2/21/2023	2/19/2023	2/25/2023	4,400
2/27/2023	2/26/2023	3/4/2023	4,400

Methodology (per Condition of Certification [COC] AQ-C7)

 PM_{10} Emissions (lb/day) = Circulation Rate (gal/day) x Density of Water (lb/gal) x Total Dissolved Solids (ppm) / 1,000,000 x Drift Factor (%) / 100 x Correction Factor

Constants	
Parameter	Value
Circulation Rate per Pump	12 500
(gal/min) ¹	13,500
Number of Pumps	2
Total Circulation Rate	27,000
(gal/min)	27,000
Water Density (lb/gal)	8.334
Drift Factor (%) ²	0.0005
Correction Factor	0.2
(unitless) ³	0.2

¹ Source: M3-10 Main Circulating Water System P&ID.

² Per COC AQ-C4.

³ Source: SPX Cooling Technologies' Cooling Tower Drift Mass Distribution.

Cooling Tower Daily PM₁₀ Emissions

	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day PM ₁₀
Date	(gal/day) ¹	TDS (ppm)	(lb/day)	Limit? ²
2/1/2023	38,880,000	4,060	1.32	No
2/2/2023	38,880,000	4,060	1.32	No
2/3/2023	38,880,000	4,060	1.32	No
2/4/2023	38,880,000	4,060	1.32	No
2/5/2023	38,880,000	4,420	1.43	No
2/6/2023	38,880,000	4,420	1.43	No
2/7/2023	38,880,000	4,420	1.43	No
2/8/2023	38,880,000	4,420	1.43	No
2/9/2023	38,880,000	4,420	1.43	No
2/10/2023	38,880,000	4,420	1.43	No
2/11/2023	38,880,000	4,420	1.43	No
2/12/2023	38,880,000	4,460	1.45	No
2/13/2023	38,880,000	4,460	1.45	No
2/14/2023	38,880,000	4,460	1.45	No
2/15/2023	38,880,000	4,460	1.45	No
2/16/2023	38,880,000	4,460	1.45	No
2/17/2023	38,880,000	4,460	1.45	No
2/18/2023	38,880,000	4,460	1.45	No
2/19/2023	38,880,000	4,400	1.43	No
2/20/2023	38,880,000	4,400	1.43	No
2/21/2023	38,880,000	4,400	1.43	No
2/22/2023	38,880,000	4,400	1.43	No
2/23/2023	38,880,000	4,400	1.43	No
2/24/2023	38,880,000	4,400	1.43	No
2/25/2023	38,880,000	4,400	1.43	No
2/26/2023	38,880,000	4,400	1.43	No
2/27/2023	38,880,000	4,400	1.43	No
2/28/2023	38,880,000	4,400	1.43	No

¹ Maximum daily circulation rate conservatively used to estimate PM₁₀ emissions when the cooling tower is operated for any part of the day. Circulation rate is zero for days the cooling tower is not operated at all.

² Daily emissions limit established in COC AQ-C7.

Reporting Period: March 2023

Cooling Tower Total Dissolved Solids (TDS) Sampling Results

Data Source: Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR

Council a Data	Period	5 J.D. (
Sample Date	Start Date	End Date	TDS (ppm)
2/27/2023	2/26/2023	3/4/2023	4,400
3/8/2023	3/5/2023	3/11/2023	4,860
3/13/2023	3/12/2023	3/18/2023	4,660
3/21/2023	3/19/2023	3/25/2023	4,400
3/27/2023	3/26/2023	4/1/2023	3,200

Methodology (per Condition of Certification [COC] AQ-C7)

PM₁₀ Emissions (lb/day) = Circulation Rate (gal/day) x Density of Water (lb/gal) x Total Dissolved Solids (ppm) / 1,000,000 x Drift Factor (%) / 100 x Correction Factor

Constants

Parameter	Value
Circulation Rate per Pump	13,500
(gal/min) ¹	13,500
Number of Pumps	2
Total Circulation Rate	27,000
(gal/min)	27,000
Water Density (lb/gal)	8.334
Drift Factor (%) ²	0.0005
Correction Factor	0.2
(unitless) ³	0.2

¹ Source: M3-10 Main Circulating Water System P&ID.

² Per COC AQ-C4.

³ Source: SPX Cooling Technologies' Cooling Tower Drift Mass Distribution.

Cooling Tower Daily PM₁₀ Emissions

	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day PM ₁
ate	(gal/day) ¹	TDS (ppm)	(lb/day)	Limit? ²
3/1/2023	38,880,000	4,400	1.43	No
3/2/2023	38,880,000	4,400	1.43	No
3/3/2023	38,880,000	4,400	1.43	No
3/4/2023	38,880,000	4,400	1.43	No
3/5/2023	38,880,000	4,860	1.57	No
3/6/2023	38,880,000	4,860	1.57	No
3/7/2023	38,880,000	4,860	1.57	No
3/8/2023	38,880,000	4,860	1.57	No
3/9/2023	38,880,000	4,860	1.57	No
3/10/2023	38,880,000	4,860	1.57	No
3/11/2023	38,880,000	4,860	1.57	No
3/12/2023	38,880,000	4,660	1.51	No
3/13/2023	38,880,000	4,660	1.51	No
3/14/2023	38,880,000	4,660	1.51	No
3/15/2023	38,880,000	4,660	1.51	No
3/16/2023	38,880,000	4,660	1.51	No
3/17/2023	38,880,000	4,660	1.51	No
3/18/2023	38,880,000	4,660	1.51	No
3/19/2023	38,880,000	4,400	1.43	No
3/20/2023	38,880,000	4,400	1.43	No
3/21/2023	38,880,000	4,400	1.43	No
3/22/2023	38,880,000	4,400	1.43	No
3/23/2023	38,880,000	4,400	1.43	No
3/24/2023	38,880,000	4,400	1.43	No
3/25/2023	38,880,000	4,400	1.43	No
3/26/2023	38,880,000	3,200	1.04	No
3/27/2023	38,880,000	3,200	1.04	No
3/28/2023	38,880,000	3,200	1.04	No
3/29/2023	38,880,000	3,200	1.04	No
3/30/2023	38,880,000	3,200	1.04	No
3/31/2023	38,880,000	3,200	1.04	No

¹ Maximum daily circulation rate conservatively used to estimate PM₁₀ emissions when the cooling tower is operated for any part of the day. Circulation rate is zero for days the cooling tower is not operated at all.

² Daily emissions limit established in COC AQ-C7.

Reporting Period: Quarter 1 2023

Table 6. Monthly Turbine-Duct Burner Fuel Flow

	January	Above 405	February	Above 405	March	Above 405
Source	Fuel Flow (MMscf/month) ¹	MMscf/month Limit? ²	Fuel Flow (MMscf/month) ¹	MMscf/month Limit? ²	Fuel Flow (MMscf/month) ¹	MMscf/month Limit? ²
CTG 1	173.0		228		54	
CTG 1 Duct Burner	0.98		1.87		0.20	
Total CTG 1 & Duct Burner	174	No	229	No	54	No
CTG 2	75		12		230	
CTG 2 Duct Burner	0.49		0.22		0.37	
Total CTG 2 & Duct Burner	76	No	12	No	230	No

¹ Fuel flow data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' and 'All_12MonthSummary_GasUsage' RegPerfect Reports. ² Monthly fuel flow limit is per Condition of Certification (COC) AQ-27.

Table 7. Monthly Emissions - January 2023

	Monthly Emissions (lb/month) ¹							
Source	NOx ²	СО	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃ ³		
CTG 1 & Duct Burner	1,303	500	268	48	1,046	1,592		
CTG 2 & Duct Burner	568	206	116	21	454	692		
Monthly Emission Limits ⁴	N/A	7,633	3,236	227	4,876	N/A		
Exceeds Limit?	N/A	No	No	No	No	N/A		

¹ Unless otherwise noted, monthly emissions data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' RegPerfect Report.

² Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.

³ Monthly NH₃ emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.

⁴ Monthly emission limits are per COC AQ-5.

Table 8. Monthly Emissions - February 2023

	Monthly Emissions (lb/month) ¹							
Source	NOx ²	CO	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃ ³		
CTG 1 & Duct Burner	1,591	529	353	63	1,379	2,104		
CTG 2 & Duct Burner	117	97	19	3	73	112		
Monthly Emission Limits ⁴	N/A	7,633	3,236	227	4,876	N/A		
Exceeds Limit?	N/A	No	No	No	No	N/A		

¹ Unless otherwise noted, monthly emissions data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' RegPerfect Report.

² Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.

³ Monthly NH₃ emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission

Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.

⁴ Monthly emission limits are per COC AQ-5.

Table 9. Monthly Emissions - March 2023

	Monthly Emissions (lb/month) ¹								
Source	NOx ²	СО	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃ ³			
CTG 1 & Duct Burner	466.98	249	83	15.0	324	492			
CTG 2 & Duct Burner	1,616.75	473	355	63.4	1,385	2,099			
Monthly Emission Limits ⁴	N/A	7,633	3,236	227	4,876	N/A			
Exceeds Limit?	N/A	No	No	No	No	N/A			

¹ Unless otherwise noted, monthly emissions data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' RegPerfect Report.

² Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.

³ Monthly NH₃ emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission

Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.

⁴ Monthly emission limits are per COC AQ-5.

Reporting Period: Quarter 1 2023

Methodology

Emissions (lb/month) = Fuel Usage (gal/month) / 1,000 (gal/Mgal) x Emission Factor (lb/Mgal)

Emission Factors

	Emission Factor	
Pollutant	(lb/Mgal)	Reference
NOx	469	Emission factor provided in the facility's Title V Permit.
СО	13.62	Emission factor converted from the factor provided in the facility's Title V Permit (0.4 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
VOC	3.41	Emission factor converted from the factor provided in the facility's Title V Permit (0.1 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
SOx	0.21	Default for Diesel/Distillate Oil, ICEs given in the SCAQMD's Combustion Default Emission Factors - January 2022.
PM ₁₀ /PM _{2.5}	3.065	Emission factor converted from the factor provided in the facility's Title V Permit (0.09 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
NH3	0.800	Default for diesel combustion equipment without an SNCR or SCR given in the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Reporting Procedures - June 2020.

Table 10. Monthly Diesel Fire Pump Hours of Operation, Fuel Usage, and Emissions

	Monthly Hours of Operation ¹			Fuel Usage Monthly Emissions (lb/mo				nonth)			
Month	Maintenance	Testing	Emergency	(gal/month) ²	NOx	CO	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃	
January	0.0	2.5	0.0	28.0	13.1	0.38	0.10	0.01	0.09	0.02	
February	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02	
March	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02	
April	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
May	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
June	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
July	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
August	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
September	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
October	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
November	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
December	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	
Q1 Total	0.0	6.5	0.0	72.8	34.1	0.99	0.25	0.02	0.22	0.06	
Q2 Total	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
Q3 Total	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
Q4 Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Annual Total	0.0	6.5	0.0	72.8	34.1	1.0	0.2	0.0	0.2	0.1	
Annual Limit for M	aintenance and Tes	ting ³	50	_							
Total A	nnual Limit ³		200								

¹ Monthly hours of operation calculated from Device 385/403 run timer readings.

Exceeds Limits?

² Fuel usage (gal/month) calculated by multiplying the hours of operation by the unit's maximum fuel throughput (11.2 gal/hour).

No

³ Annual limits for hours of operation are per Condition of Certification (COC) AQ-15.

Appendix B Cooling Tower Blowdown Reports



January 13, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2301019 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 04, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manage



Certificate of Analysis

Page 2 of 2

Report Date: 01/13/23

PLS Report No.: 2301019

Submitted: 01/04/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep	o/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	5090		1	mg/L	5.0	-	SM 2540C	01/09/23	01/10/23	VC	BA3113
			Qu	uality (Contro	ol Data					
					tip dengi	Spike	Source	%REC	RPD		
Analyte	Resi	ılt	PQL	U	nits	Level	Result %REC	Limits	RPD Limit	Q	ualifler
Batch BA31130											
Blank		04	00/00	Analuzadi	04/10/						

Blank		Prepared: (01/09/23 A	Analyzed: 01/10	/23						
Total Dissolve	d Solids	ND	5.0	mg/L							
LCS		Prepared: ()1/09/23 <i>4</i>	Analyzed: 01/10	/23						
Total Dissolve	d Solids	47.0	5.0	mg/L	50.00		94.0	80-120			
Duplicate	Source: 2301019-01	Prepared: (01/09/23 A	Analyzed: 01/10	/23						
Total Dissolve	d Solids	4980	5.0	mg/L		5090			2.18	5	
Duplicate	Source: 2301011-01	Prepared: ()1/09/23 <i>4</i>	Analyzed: 01/10	/23						
Total Dissolve	d Solids	3200	5.0	mg/L		3080			3.73	5	

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Rick Owen Parlier

Authorized Signature(s)

		<u>nc</u>		IN OF	r CU	STOD	Y AN	ND A	NAI	LYSI	S RJ	EQU	EST					
		US	TIVE 781 East Was	hington B	lvd., Lo 5.5212	s Angeles FAX (213	5, CA 900 3) 7 <i>4</i> 5-62	21 72								4.23	Ρ.	AGE: OF
		AB SI	ERVICE	[៥ ស្វេ 74:			J 745-05	r£					FII	.E NO.:			LAB	NO.: 140(0)9
CLIENT	NAME:	CITY OI	FVERNON	PROJE	CT N	AME/NO	D.	MALBUI	RG GENE	RATING S	TATION	VEEKLY	P.0).NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									AN	ALYSE	S REQ	UEST	ED		OBSERVED TEMP <u> 1-2 ゼ</u>
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX N	NO:									CORRECTED TEMP: D'B"C
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA'	TURE													THERMO ID: 60
TAT (Tu	ırn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal											
CONTA	INER TY	PES: B=E	Brass; E=Encore/Easy Draw; H	=Plastic	; G=G	lass; V=	=VOA V	/ial; (D=Oth	er								
	OJECT:		GLOBAL ID#:															
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION			TRIX	1	TAT		AINER	TDS							SAMPLE CONDITIONS/
ш	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE								CONTAINER/COMMENTS
	1-4.23	0035	COOLING TOWER BLOWDOWN	X				N	1	Р	X			_				1
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Relingui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		 Ti	me:	_	SAM	IPLE	DISPOSITION
	1nt	C	,	Ľ,	TA)		Dimba			/	-42	3	ÒQ	35		1. Sam	iples re	turned to client? Yes No
Relinqui	shed by (S	signature&	: Name):	Receive	d by (Signature	e & Nam	e):			Date			me:		2. Sam	nples w	ill not be stored over 30 days,
																unless	additio	nal storage time is requested
Relinqui	shed by (S	Signature&	: Name):	Receive	ed by (Signature	& Nam	e):			Date		Ti	me:		3. Stor	rage tim	ne requested:days,
																Ву:		Date:
SPECIA	L INSTR	UCTION	a strand at the share by															
			Arrived at the lab $\int -\frac{1}{2}$	1-23 /0	15													
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACI	TATE 5	-NaO	H 6-NH4	BUFFI	_R 7-	OTHE	R								



January 23, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2301145 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 10, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



				Ce	rtific	ate of	Anal	ysis			Page 2	of 2		
City of Vernon 4963 Soto St. Vernon, CA 90058										R	ubmitte	548 ate: 01/2 d: 01/10 o rt No.	/23	
Attn: Matt Richards		Phon	e: (323) 476-	3626	FAX:(3	23) 476	-3640		-				
Project: Malburg Gen	erating Statio	n Week	:ly											
Sample 1D: Cooling Towe	er Blowdown	Water	· (230	1,145-0)1) Sar	npled; 0	1/10/23	09:20 R	eceived:	01/10/23				
Analyte	Resu	lts	Flag	D.F.	Units	PQL	Pre	p/Test Met	hođ	Prepared	Ana	lyzed	Bу	Batch
Total Dissolved Solids	429	0	R1	1	mg/L	5.0	-		2540C	01/18/23	01/:	19/23	VC	BA32329
				Q	uality	Contro	ol Data	3						
							Spike	Source		%REC		RPD		
Analyte		Result		PQL	2 2 A	Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BA32329														
Blank		Prepar	ed: 01/:	18/23	Analyzed	d: 01/19/	23			a sugar di gina kalana (Andro dan Kalana di Ka		-2,000000000000000000000000000000000000		anna fanna nun gege le fangenn
Total Dissolved Solids		ND	-	5.0	-	mg/L								
LCS		Prepar	ed: 01/:	18/23	Analyzeo	d: 01/19/	23							
Total Dissolved Solids		46.0		5.0		mg/L	50.00		92.0	80-120				
Duplicate Source: 2	2301145-01	Prepar	ed: 01/:	-	Analyzed	d: 01/19/	23							
		4410		5.0		mg/L		4290			2.69	5		
Total Dissolved Solids	· · · · · · · · · · · · · · · · · · ·													
	2301258-01	Prepar 4620	ed: 01/:	18/23 5.0	•	d : 01/19/ mg/L	23	4570			1.00	5		

Notes and Definitions

R1 Sample Analyzed Past Holding Time.

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Rick Owen Parlier

Authorized Signature(s)

		05		IN OF					NAI	LYSI	S RI	EQI							
			TIVE 781 East Was ERVICE	hington B (213) 74	lvd., Lo 6-5312	s Angeles FAX (21)	s, CA 900 8) 745-63	21 72						FILE	DATE: NO.:	: <u> -</u> [0	· <u>2}</u>	PA Lab 1	NO.: <u>170145</u>
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO	D.	MALBUI	RG GENEI	RATING ST	TATION	WEEKI		P.O.N					AIRBILL NO:
ADDRES	SS:	4963 SOT	TO ST. VERNON CA 90058									Aľ	NALY	(SES I	REQU	EST	ED		OBSERVED TEMP 1.5°C
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									4	CORRECTED TEMP: 1.7 C
SAMPLI			JOHN BARIE	SIGNA	TURE	: T													THERMO ID: 66
			0=Same Day; 1=24 Hour; 2=																
			Brass; E=Encore/Easy Draw; I					/ial; ()=Oth	er									
			GLOBAL ID#:				-												
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION			TRIX	1	TAT	CONT	AINER									SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								CONTAINER/COMMENTS
	(70.23	2922	COOLING TOWER BLOWDOWN	X			ļ	N	1	Р	X								
	•						<u> </u>												
									ļ										
								-											
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time	:		SAM	PLE I	DISPOSITION
,	NA			J.	$\overline{\bigcirc}$	OmBo	<u>ņē</u>			/·	-102	<u>۲</u>	6	092	J		1. Sam	ples reti	urned to client? Yes No
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time	:		2. Sam	ples wil	II not be stored over 30 days,
																	unless :	additior	nal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:	:		Time	:		3. Stora	age time	e requested:days,
																	Ву:		Date:
SPECIA	L INSTR	UCTION																	
			مرا - (Arrived at the lab / - / -) 2-H2SO4 3-HCL 4- ZINC ACI	9.23	105			-D 7		D									



February 01, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2301317 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 17, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 02/01/23

PLS Report No.: 2301317

Submitted: 01/17/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower	Blowdown Wa	ter (230	1317-0)1) Sam	pled: 0:	1/17/23 0	9:40 Received	: 01/17/23			
Analyte	Results	Flag	D.F.	Units	PQL	Prep/	Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4300		1	mg/L	5.0	-	SM 2540C	01/24/23	01/25/23	VC	BA33145
			Q	uality (Contro	ol Data					

			a tang sala da		Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BA3314	\$-•										
Blank		Prepared:	01/24/23 Ana	lyzed: 01/2	5/23						
Total Dissolved	đ Solids	ND	5.0	mg/L							
LCS		Prepared:	01/24/23 Ana	lyzed: 01/2!	5/23						
Total Dissolve	đ Solids	47.0	5.0	mg/L	50.00		94.0	80-120			
Duplicate	Source: 2301317-01	Prepared:	01/24/23 Ana	lyzed: 01/2!	5/23						
Total Dissolve	d Solids	4420	5.0	mg/L		4300			2.75	5	

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL. Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Rick Omen Parties

Authorized Signature(s)

	P					STOE			NAI	LYSI	S RI	EQUI	EST					
			TIVE 781 East Was			s Angeles FAX (21)								DAT	е: <u>/-</u> /	17.23		AGE: OF/
	//	AB SI	ERVICE	[213] 74	3-3312	FAA (21.	Jj 743-03	112					FIL	E NO.:			LAB	NO.: 2301317
CLIENT	NAME:	CITY OF	F VERNON	PROJE	CT N	AME/NO	D.	MALBU	RG GENEI	RATING S	TATION	WEEKLY	P.0	.NO.				AIRBILL NO:
ADDRE	5S:	4963 SOT	FO ST. VERNON CA 90058									ANA	LYSE	S REQ	UEST	ED		observed temp <u>ろ, 2ッ</u>
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: $\frac{3.5^{t}}{60}$
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	:	/											THERMO ID: 66
TAT (Tu	rn-Arour	ıd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal											
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=0	lass; V=	=VOA V	/ial; ()=Othe	er								
UST PR	OJECT:	Y N	GLOBAL ID#:															
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER								SAMPLE CONDITIONS/
D	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	ТҮРЕ	TDS							CONTAINER/COMMENTS
	1-1-23	5942	COOLING TOWER BLOWDOWN	X				N	1	Р	x							
L				<u> </u>	ļ													
Relinquis	shed by (S	ignature&	Name):			Signature		e):			Date:		Tin	ne:		SAM	PLE	DISPOSITION
/	W			JD-	S.	m/sap	è			1-	172	3	Ogy	0		1. Sam	ples ret	turned to client? Yes No
Relinquis	shed by (S	ignature&	Name):	v		Signature		e):			Date:		Tin	ne:		2. Sam	ples wi	ill not be stored over 30 days,
																unless	additio	nal storage time is requested
Relinquis	shed by (S	ignature&	Name):	Receive	d by (Signature	& Nam	e):			Date:		Tin	ne:		3. Stor	age tim	ne requested:days,
					•	-		,								By:	_	Date:
SPECIA	L INSTR	UCTION	•															
			Arrived at the lab /-/7	23 1	2-													
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOl	H 6-NH4	BUFFE	R 7-	OTHE	R								



February 06, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2301399 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 24, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 02/06/23

PLS Report No.: 2301399

Submitted: 01/24/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Meth	lod	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	3960		1	mg/L	5.0	- SM 2	2540C	01/31/23	02/01/23	VC	BB3014
Total Disserved Donas	0,00			uality (,,			

Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BB3014	7										
Blank		Prepared: 0	1/31/23	Analyzed: 02/01	L/23						
Total Dissolve	d Solids	ND	5.0	mg/L							
LCS		Prepared: 0	1/31/23	Analyzed: 02/01	L/23						
Total Dissolve	d Solids	46.0	5.0	mg/L	50.00		92.0	80-120			
Duplicate	Source: 2301440-01	Prepared: 0	1/31/23	Analyzed: 02/01	l/23						
Total Dissolve	d Solids	4230	5.0	mg/L		4060			4.30	5	

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Rick Owen Parlin

Authorized Signature(s)

TINT	NIA BATT.	CITY OF	VERNON	DDOIE	OT N	ABATTAN							P.O.1			LAB NO .: 2301399
		ionali na X	VERNON	PRUJE		AME/NO	<i>)</i> .	MALBU	RG GENE	RATING S	FATION V					AIRBILL NO:
DDRES			TO ST. VERNON CA 90058					-				ANA	LYSES	REQUE	STED	OBSERVED TEMP -4
ROJEC	T MANA	GER	MATT RICHARDS	PHONE	e anne a	10		FAX	NO:				_			CORRECTED TEMP: / 1
AMPLI	CR NAMI	E:	JOHN BARIE	SIGNA	TURE	: 47										THERMO ID: 66
AT (Tu	rn-Aroun	nd-Time):	0=Same Day; 1=24 Hour; 2=-	48Hour;	(ETC	.) N=Nor	mal									
ONTA	NER TY	PES: B=B	rass; E=Encore/Easy Draw; P	=Plastic;	; G=G	lass; V=	VOA	Vial; (O=Oth	er						
			GLOBAL ID#:					r								
AMPLE	DATE	TIME	SAMPLE DESCRIPTION			TRIX		TAT	CONT		S					SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS	+				CONTAINER/COMMEN
	1.24.22	0850	COOLING TOWER BLOWDOWN	X	<u> </u>			N	1	Р	X					
															_	
												_	_		_	
								ļ							_	
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elinquis	hed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time		SAM	PLE DISPOSITION
٨	A			IN-	1	Shall	50 61			j-	24	43	OBS	0	1. Sam	ples returned to client? Yes No
elinquis	hed by (S	ignature&		•		Signature		e):			Date:		Time	:	2. Sam	ples will not be stored over 30 days
	• •	5	,		2.	5		<i>,</i>								additional storage time is requested
elinauis	hed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e).			Date:		Time		_	age time requested:days
1		3				- grann e					24101				By:	
DECIA	INSTR	UCTION:		-					_				_			, outer
PECIA	LINSIK	UCTION:	Arrived of the Job	4.23												



February 06, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2301440 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 30, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 02/06/23

PLS Report No.: 2301440

Submitted: 01/30/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower I	Blowdown Wa	ter (230	1440-0	1) Sam	pled: 0	1/30/23 0	8:55 Received	: 01/30/23			
Analyte	Results	Flag	D.F.	Units	PQL	Prep/	Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4060		1	mg/L	5.0	-	SM 2540C	01/31/23	02/01/23	VC	BB30147
			Q	uality (Contro	ol Data					

				이 공격 전	Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BB30147	/										
Blank		Prepared: 01/31/23 Analyzed: 02/01/23									
Total Dissolved Solids		ND	5.0	mg/L				A/111 1111			
LCS		Prepared:	01/31/23 Ana	lyzed: 02/01	./23						
Total Dissolved Solids		46.0	5.0	mg/L	50.00		92.0	80-120			
Duplicate	Source: 2301440-01	Prepared:	01/31/23 Ana	lyzed: 02/01	/23						
Total Dissolved Solids		4230	5.0	mg/L		4060			4.30	5	

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Pick Owen Par 0.

Authorized Signature(s)

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Mind.	LA	AB SI	ERVICE	[213] 74	5-5312	FAX (213	8] 745-63	72					FILE	NO.:	_	1	LABN	10.: 130/440
CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEE								WEEKLY	P.O.1	NO.		A	AIRBILL NO:					
ADDRESS: 4963 SOTO ST. VERNON CA 90058								ANA						REQU	EST	ED	0	DBSERVED TEMP <u>/20</u> 2
PROJECT MANAGER MATT RICHARDS			PHONE NO: FAX NO:													CORRECTED TEMP: <u>1.2</u> °C		
SAMPLER NAME: JOHN BARIE				SIGNATURE:													r	THERMO ID: 66
TAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=4	48Hour;	(ETC) N=Nor	mal											
CONTAI	NER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	=VOA V	'ial; ()=Oth	er								
	UST PROJECT: Y N GLOBAL ID#:																	
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION MATRIX TAT CONTAINER			IDS							SAMPLE CONDITIONS/					
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE			-					CONTAINER/COMMENTS
	1.30.27	0855	COOLING TOWER BLOWDOWN	X				N	1	Р	X	-					-	
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Relinquished by (Signature & Name): Received by (Signature & Name):										Date: Time:				SAMPLE DISPOSITION				
									30.43 0.84							rned to client? Yes No		
Relinguis	hed by (S	ignature&	Received by (Signature & Name):							Date:		de com				 Samples will not be stored over 30 days, 		
Relinquished by (Signature & Name): Date:																	al storage time is requested	
Relinquis	hed by (S	ignature&	Received by (Signature & Name):						Date:		Time:		 Storage time requested:days, 					
														By:Date:				
SPECIA	L INSTR	UCTION:	Arrived at the lab / .2															
SPECIAL INSTRUCTION: Arrived at the lab (-30.23 103)											in a second product of the pro-					¥ 1		
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOł	16-NH4	BUFFE	R 7-	OTHE	R				μ.			X	14 J.
		May 12																



February 13, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2302056 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 07, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Au Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 02/13/23

PLS Report No.: 2302056

Submitted: 02/07/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower I	Blowdown Wa	cer (230	2056-0	1) Sam	pled: 02	/07/23 0	8:15 Received	: 02/07/23			
Analyte	Results	Flag	D.F.	Units	PQL	Prep/	Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4420		1	mg/L	5.0	-	SM 2540C	02/07/23	02/08/23	VC	BB30904
			Q	uality (Contro	l Data					

					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BB3090	4										
Blank		Prepared: C	2/07/23 Ana	lyzed: 02/08	/23						
Total Dissolve	d Solids	ND	5.0	mg/L							
LCS		Prepared: C	2/07/23 Ana	ilyzed: 02/08	/23						
Total Dissolve	d Solids	54.0	5.0	mg/L	50.00		108	80-120			
Duplicate	Source: 2302022-01	Prepared: C	2/07/23 Ana	lyzed: 02/08	3/23						
Total Dissolve	d Solids	1470	5.0	mg/L		1400			4.30	5	

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

lier Rick Owen Par

Authorized Signature(s)

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CLIENT	NAME:	CITY OI	FVERNON	PROJE	CT N.	AME/NO).	MALBU	RG GENE	RATING S	TATION	WEEKLY	P.O.	NO.				AIRBILL NO:
ADDRE	SS:	4963 SO	TO ST. VERNON CA 90058									ANA	LYSES	REQU	EST	ED		OBSERVED TEMP 1.3 2
PROJEC	CT MANA	AGER	MATT RICHARDS	PHONE	NO:			FAX N	NO:									CORRECTED TEMP: 1. TC
SAMPL	ER NAM	E:	JOHN BARIE	SIGNA	TURE	: A	~											THERMO ID:
TAT (Tı	ırn-Arou	nd-Time):	0=Same Day; 1=24 Hour; 2=4	\$Hour;	(ETC) N=Nor	mal											
CONTA	INER TY	PES: B=E	Brass; E=Encore/Easy Draw; P	=Plastic	G=G	lass; V=	VOA V	/ial; ()=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:						r									
SAMPLE		TIME	SAMPLE DESCRIPTION			TRIX		TAT		AINER	S							SAMPLE CONDITIONS/
ID	SAMPLED	12		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS		_	$\left \right $				CONTAINER/COMMENTS
	27.23	12015	COOLING TOWER BLOWDOWN	X				N	1	P	X							
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Dolingui	shad hy (S	l Signature&	Nomo):	Dessive	d hr: /0	l	& Nom	<u></u>			Date:		Tim		_	SAM	DIE	DISPOSITION
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- ·		ionotuno P	Nama):		-0	~~~~	P. Morris	a);			<u>- 7.2</u> Date:	1	 Tim	, ,			•	
Kennqui	shed by (a	Signature&	. Name).	Receive	u by (a	Signature	& Nam	e).			Date.		1 1111	ε.				Il not be stored over 30 days, nal storage time is requested
Delingui	chod by (S	Signature&	Nama):	Possive	d by (S	Signature	& Nom	a).			Date:		Tim	o.		1		e requested: days,
ixeiniqui	shea by (c	nginaturece	Name).	Receive	u by (t	Signature	oc Indili	<i>c)</i> .			Date.		1 1111	. .		By:	age uni	Date:
SPECIA	L INSTR	RUCTION	:													<u></u>		
			Arrived at the lab 27	23 10	5													
PRESE	RVATIVE	E 1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE			16-NH4	BUFF	ER 7-	OTHE	R								



February 23, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2302113 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 15, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 02/23/23

PLS Report No.: 2302113

Submitted: 02/15/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

3y Bate	Ву	Analyzed	Prepared)/Test Method	Prep,	PQL	Units	D.F.	Flag	Results	Analyte
/c BB32	VC	02/22/23	02/21/23	SM 2540C	•	5.0	mg/L	1		4460	Total Dissolved Solids
٧		02/22/23	02/21/23	SM 2540C	l Data	5.0	mg/L	1			·····,··

Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BB32314	🖕 er et telener over alle									6916161	electre est
Blank		Prepared: 0)2/21/23 Ana	lyzed: 02/22	/23						
Total Dissolved	Solids	ND	5.0	mg/L							
LCS		Prepared: ()2/21/23 Ana	lyzed: 02/22	/23						
Total Dissolved	Solids	54.0	5.0	mg/L	50.00		108	80-120			
Duplicate	Source: 2302113-01	Prepared: ()2/21/23 Anz	lyzed: 02/22	2/23						
Total Dissolved	Solids	4650	5.0	mg/L		4460			4.24	5	

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Rick Owen Parlie

Authorized Signature(s)

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				[2] J 740	3-331Z	FAA (21	Jj / 40~03						FI	.E NO.:		<u></u>	LAB	NO.: 2302113
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/N	0.	MALBU	RG GENEI	RATING S	TATION	WEEKLY	P.(D.NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	ГО ST. VERNON CA 90058									AN	ALYSI	S REQ	UEST	ED		OBSERVED TEMP <u>1.10</u>
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX I	NO:									CORRECTED TEMP: $\frac{1.3\%}{66}$ THERMO ID:
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA'	TURE	: TA	~ر											THERMO ID:
TAT (Tu	irn-Aroun	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Noi	rmal								1			
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	=VOA V	/ial; (O=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:					•										
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	ATRIX		TAT	CONT	AINER	Ş							SAMPLE CONDITIONS/
ID.	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS							CONTAINER/COMMENTS
	2-15-23	825	COOLING TOWER BLOWDOWN	X				N	1	Р	X							·····
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Relinqui		ignature&	Name):	Receive	d <u>by (</u> S	Signature	& Nam	e):		~	Date:			me:	,	SAM	IPLE	DISPOSITION
	MA-			J~	Je	h-n/Sam	1			2	~15	23		1925		1. San	iples re	turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:		2. Sarr	iples w	ill not be stored over 30 days,
																unless	additic	onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:		3. Stor	rage tin	ne requested:days,
																By:		Date:
SPECIA	L INSTR	UCTION	Arrived at the lab 215	<														
										_								
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOl	H 6-NH4	BUFFE	ER 7-	OTHE	R								



February 27, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2302170 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 21, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

VIII



Certificate of Analysis

Page 2 of 2

Report Date: 02/27/23

PLS Report No.: 2302170

Submitted: 02/21/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower F	Blowdown Wat	er (230	2170-0	1) Sam	pled: 02	2/21/23 0	8:25 Received	: 02/21/23	포영 관리 관리		
Analyte	Results	Flag	D.F.	Units	PQL	Prep/	Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4400		1	mg/L	5.0	-	SM 2540C	02/21/23	02/22/23	vc	BB32314
			Q	uality (Contro	ol Data					

					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BB32314			e g pere								ne state
Blank	<u> </u>	Prepared: 0	2/21/23 Ana	lyzed: 02/22	/23						
Total Dissolved	l Solids	ND	5.0	mg/L							
LCS		Prepared: 0	2/21/23 Ana	lyzed: 02/22	/23						
Total Dissolved	Solids	54.0	5.0	mg/L	50.00		108	80-120			
Duplicate	Source: 2302113-01	Prepared: 0	2/21/23 Ana	lyzed: 02/22	2/23						
Total Dissolved	Solids	4650	5.0	mg/L		4460			4.24	5	

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL. Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Fick Owen Parlies

Authorized Signature(s)

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Altel.		AB S	ERVICE	[213] 74	5-5312	FAX (21)	3) 745-63	172					F	TILE NO	D.:		LAB	3 NO .: 1902170
CLIENT	NAME:	CITY OI	FVERNON	PROJE	CT N	AME/N).	MALBU	RG GENE	RATING S	TATION	WEEKLY	r P	P.O.NO				AIRBILL NO:
ADDRE	SS:	4963 SOT	FO ST. VERNON CA 90058									AN	ALYS	SES RE	QUES	TED		OBSERVED TEMP 1.20
PROJE	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.44
SAMPL	ER NAM	E:	JOHN BARIE	SIGNA	TURE	÷												THERMO ID: 6
TAT (T	urn-Aroun	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal											
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; 1	P=Plastic	; G=G	lass; V=	=VOA V	Vial; ()=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:															
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER								SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS				_			CONTAINER/COMMENTS
<u> </u>	2:21:23	OBIE	COOLING TOWER BLOWDOWN	X			<u> </u>	N	1	Р	X							
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Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature		e):			Date:		ſ	Time:		SAN	IPLE	DISPOSITION
	M	\downarrow		Y	35	Tor	Asort			2	121	13	Õ	82f	-	1. Sar	nples re	eturned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		1	Time:		2. Sar	nples w	vill not be stored over 30 days,
																unless	s additi	ional storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		1	Time:		3. Sto	rage tir	me requested:days,
						_										By:		Date:
SPECIA	L INSTR	UCTION	$\Delta rejugate the lab 2 2$	() -														
			Arrived at the lab 2=2															
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOl	16-NH4	BUFFE	R 7-	OTHE	R								



March 07, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2302245 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 27, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 03/07/23

PLS Report No.: 2302245

Submitted: 02/27/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep)/Test Met	hod	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4400		1	mg/L	5.0	-	SM	2540C	02/28/23	03/01/23	VC	BC3021
			Q	uality (Control	Data						
						Spike	Source		%REC	RPD		
Analyte	R	esult	PQL	5 8 9 1	Jnits	Level	Result	%REC	Limits	RPD Limit	Q	ualifier
Batch BC30216										3337330		8
Blank	P	repared: 02	/28/23	Analyzed:	: 03/01/23	3						
Total Dissolved Solids		ND	5.0	n	ng/L				····			
LCS	Р	repared: 02	/28/23	Analyzed	: 03/01/2	3						
Total Dissolved Solids		46.0	5.0	n	ng/L	50.00		92.0	80-120			
Duplicate Source: 23022	45-01 P	repared: 02	/28/23	Analyzed:	: 03/01/23	3						

Notes and Definitions

mg/L

4400

5.0

NA Not Applicable

Total Dissolved Solids

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

4310

Rick Buren Parlier

2,14

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Authorized Signature(s)

	n			IN OF	r CU	STOD	YAN	ND A	NAI	JYSI	S RI	EQU	EST	Г					
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		AB SI	ERVICE	[213] 74	5-5312	FAX (213	8] 745-63	72					F	ILE 1	NO.:			LAB	NO.: 00045
CLIENT	NAME:	CITY OF	F VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENER	ATING S	TATION	WEEKLY	<u> </u>	2.0.N	0.				AIRBILL NO:
ADDRES	SS:	4963 SOT	TO ST. VERNON CA 90058									AN	ALYS	SES F	REQU	EST	ED		OBSERVED TEMP
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX N	NO:										CORRECTED TEMP: 1-2"
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: ジー				:									THERMO ID:
TAT (Tu	rn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=4	48Hour;	(ETC	.) N=Nor	mal												
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	=VOA V	'ial; (D=Othe	er									
UST PR	OJECT:	Y N	GLOBAL ID#:		****	~ ~~~			-										
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA I	ATRIX	1	TAT	CONT	AINER	s								SAMPLE CONDITIONS/
ID.	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								CONTAINER/COMMENTS
	とわら	0740	COOLING TOWER BLOWDOWN	X				N	1	Р	Х								
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L																			
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:			SAM	PLE	DISPOSITION
		1A-		\mathcal{N}^{ν}		Julia	Ù			- 4	127	rZ	07	60			1. Sam	ples ret	turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		r	l'ime:			2. Sam	iples wi	ill not be stored over 30 days,
		•															unless	additio	onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:			3. Stor	age tim	ne requested:days,
																	Ву:		Date:
SPECIA	L INSTR	UCTION	Arrived at the lab	• •															
			Arrived at the lab	300	12														
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOł	H 6-NH4	BUFFE	R 7-	OTHEI	R									,

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March 17, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2303104 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 08, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 03/17/23

PLS Report No.: 2303104

Submitted: 03/08/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tov	ver Blowdown	Wate	er (230	3104-0	11) Sar	npled: 0	3/08/23	08:35 R	eceived:	03/08/23				
Analyte	Resul	ts	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Analy	/zed	Ву	Batch
Total Dissolved Solids	486	0		1	mg/L	5.0	-	SM	2540C	03/14/23	03/1	5/23	vc	BC3160
				Q	uality	Contro	ol Data	1						
							Spike	Source		%REC		RPD		
Analyte		Resul	t	PQL		Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC31609														
Blank	ân 111 în 11 în	Prepa	nred: 03	/14/23	Analyzed	1: 03/15/	23							i
Total Dissolved Solids		ND		5.0		mg/L								
LCS		Prepa	ired: 03,	14/23	Analyzed	i: 03/15/	23							
Total Dissolved Solids		46.0		5.0		mg/L	50.00		92.0	80-120				
Duplicate Source	: 2303153-01	Prepa	red: 03	14/23	Analyzed	1: 03/15/	23							
Total Dissolved Solids		4840		5.0		mg/L		4660			3.90	5		

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Rick Owen Parlie

Authorized Signature(s)

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rahul		OS AB SI	TIVE C. 781 East	HAII Washin (2	N OF Ington Bl 213) 745	vd., Lo -5312	STOD os Angeles FAX (213	Y AN 6, CA 900 8) 745-63	ND A 121 172	ANAI	LYSI	S RI	EQUE		DATE	:3~8	~ <u>~3</u>		AGE: _/_ OF / NO.: 7903104
CLIENT	NAME:	CITY OF	F VERNON	P	ROJE	CT N	AME/NO).	MALBU	RG GENE	RATING S	TATION	WEEKLY	P.O.	NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 9005	8							21		ANA	LYSES	REQU	EST	ED		OBSERVED TEMP 1.6%
PROJEC	CT MANA	GER	MATT RICHARDS	Pl	HONE	NO:			FAX	NO:									corrected temp: <u>1.8⁰c</u>
SAMPL	ER NAMI	E:	JOHN BARIE	S	IGNAT	TURE	:4												THERMO ID: 60
TAT (TI	ırn-Arour	nd-Time):	0=Same Day; 1=24 Hour	; 2=48	Hour;	ETC.	.) N=Nor	mal											
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Drav	w; P=F	Plastic;	G=G	lass; V=	=VOA V	/ial; (0=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:				-												
SAMPLE	DATE	TIME	SAMPLE DESCRIPTIO	DN	1	MA	TRIX		TAT	CONT	AINER	s							SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		<u> </u>	WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS		_	+				CONTAINER/COMMENTS
	3-8-23	OBST	COOLING TOWER BLOWDO	WN	Х				N	1	Р	X		+	+				
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Relinqui	shed by (S	ignature&	Name):	S		- 18 - SA	Signature	& Nam	e):			Date:		Tim			SAM	PLE	DISPOSITION
/	A			N	5	Joh	Bane				3-	8.0	3	DE	335		1. Samj	ples ret	turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	R	Receive	d by (S	Signature	& Nam	e):			Date:		Tim	e:		2. Samj	ples wi	Il not be stored over 30 days,
						_											unless a	additio	nal storage time is requested
Relinqui	shed by (S	ignature&	Name):	R	Receive	d by (S	Signature	& Nam	e):			Date:		Tim	e:		3. Stora	age tim	e requested:days,
																	Ву:		Date:
SPECIA	L INSTR	UCTION	:	5															
			Arrived at the lab 3 g			-													
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC	ACET	ATE 5-	NaOł	H 6-NH4	BUFFE	=R 7-	OTHE	R								



March 17, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2303153 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 13, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



Certificate of Analysis

Page 2 of 2

File #:74548 Report Date: 03/17/23 Submitted: 03/13/23 **PLS Report No.: 2303153**

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling	Tower Blowdown	n Wate	er (230	3153-0	1) Sar	npled: 0	3/13/23	08:10 R	eceived:	03/13/23			SP 2554	
Analyte	Res	ults	Flag	D.F.	Units	PQL	Pre	o/Test Met	hod	Prepared	Analy	/zed	Ву	Batch
Total Dissolved Soli	ds 46	60		1	mg/L	5.0	-	SM	2540C	03/14/23	03/1	5/23	VC	8C3160
				Q	uality	Contro	ol Data							
							Spike	Source		%REC		RPD		
Analyte		Resul	t	PQL		Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC31609														
Blank		Prepa	red: 03/	14/23	Analyzed	l: 03/15/	23							
Total Dissolved Solids		ND		5.0		mg/L								
LCS		Prepa	red: 03/	14/23	Analyzeo	l: 03/15/	23							
Total Dissolved Solids		46.0		5.0		mg/L	50.00		92.0	80-120				
Duplicate So	urce: 2303153-01	Prepa	red: 03/	14/23	Analyzed	1: 03/15/	23							
Total Dissolved Solids		4840		5.0		mg/L		4660			3.90	5		

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL. Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Rick Owen Terlin

Authorized Signature(s)

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CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENEI	RATING S'	TATION	WEEKLI	۲ I	P.O.N				AIRBILL NO:
ADDRES	SS:	4963 SOT	FO ST. VERNON CA 90058									AN	ALY	SES I	REQU	ESTEI)	OBSERVED TEMP <u>OBC</u>
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.02
SAMPLI	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: K	>											THERMO ID:
TAT (Tu	rn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=-	48Hour;	(ETC	.) N=Nor	mal											
CONTA	INER TY	PES: B=B	Frass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:			an ar-an-m												
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX	1	TAT	CONT	AINER	S							SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS							CONTAINER/COMMENTS
	3-13-23	OBIS	COOLING TOWER BLOWDOWN	X				N	1	P	X							
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							ļ			<u> </u>								· · · · · · · · · · · · · · · · · · ·
-	shed by (S	ignature&	Name):		d by (S Dh	Signature n Beriz	& Nam	e):		3,	Date: パント	Ð		Time つ	:			LE DISPOSITION s returned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	ie):			Date	:		Time	:		•	s will not be stored over 30 days, litional storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	ed by (Signature	& Nam	ie):			Date	:		Time	:		Storage	time requested:days,Date:
SPECIA	L INSTR	UCTION	: Arrived at the lab 3-73-	2300	ζv													

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER



April 06, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2303253 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 21, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 04/06/23

PLS Report No.: 2303253

Submitted: 03/21/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Co	oling Tower Blowdov	wn Wat	er (230)3253-0	1) Sam	pled: 0	3/21/23	08:20 R	eceived:	03/21/23				
Analyte	R	lesults	Flag	D.F.	Units	PQL	Pre	o/Test Met	hod	Prepared	Anal	yzed	Ву	Batch
Total Dissolve	ed Solids	4400		1	mg/L	5.0	-	SM	2540C	03/27/23	03/2	8/23	vc	BC32902
				Qi	uality (Contro	ol Data	l						
							Spike	Source		%REC		RPD		
Analyte		Resi	ult	PQL	ι	Inits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC32902		unter de lass												
Blank		Prep	ared: 03	/27/23	Analyzed:	03/28/	23							
Total Dissolved	Solids	ND		5.0	n	ng/L								
LCS		Prep	ared: 03	/27/23	Analyzed:	03/28/	23							
Total Dissolved	Solids	55.	0	5.0	n	ng/L	50.00		110	80-120				
Duplicate	Source: 2303253-01	Prep	ared: 03	/27/23	Analyzed:	03/28/	23							
Total Dissolved	Solids	460	0	5.0	n	1g/L		4400			4.33	5		

Notes and Definitions

mg/L

54.0

Prepared: 03/27/23 Analyzed: 03/28/23

5.0

NA Not Applicable

Total Dissolved Solids

Duplicate

ND Analyte NOT DETECTED at or above the reported limit(s)

Source: 2303283-07

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

55.0

Rick Owen Parles

1.83

Authorized Signature(s)

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			TIVE 781 East Was ERVICE	hington B (213) 74	lvd., Lo 5-5312	s Angele: FAX (21)	s, CA 900 31 7 <i>4</i> 5-63	21 172								123	Р	AGE: _/_ OF/
	~ ⊾∕		ekvile 	د ا رداع			-,						FIL	E NO.:			LAB	NO.: 2703253
CLIENT	NAME:	CITY OF	F VERNON	PROJE	CT N	AME/N	D.	MALBUI	RG GENEI	RATING ST	TATION	WEEKLY	P.0	.NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									ANA	LYSE	S REQ	UEST	ED		OBSERVED TEMP_ <u>6).92</u>
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: <u>/ ./ ℃</u>
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE		,											THERMO ID: <u>60</u>
TAT (Tu	rn-Aroun	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Noi	rmal									ļ		
CONTA	INER TY	PES: B=E	Brass; E=Encore/Easy Draw; 1	Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Oth	er								
UST PR	UST PROJECT: Y N GLOBAL ID#:																	
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		M.A I	ATRIX	1	TAT	CONT	AINER	s		l l					SAMPLE CONDITIONS/
D	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS		_					CONTAINER/COMMENTS
	3-4-23	2320	COOLING TOWER BLOWDOWN	X	ļ			N	1	Р	X					<u> </u>	ļ	
					ļ		ļ		ļ	ļ					<u> </u>			
					ļ					ļ								
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tin	ne:		SAM	IPLE	DISPOSITION
ې	In		T	S Ji	m.l	TAR				321	13		α	620		1. Sam	nples re	turned to client? Yes No
Relinqui	shed by (S	ignature&				Signature	& Nam	e):			Date:		Tin	ne:		2. San	nples w	ill not be stored over 30 days,
						_										unless	additic	onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tin	ne:		3. Stor	rage tin	te requested: days,
		-	, ,		•	C		,								By:	-	Date:
SPECIA	L INSTR	UCTION	•										<u></u>					
			: Arrived at the lab 3-2/	23 1113	5													
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE			- 6-NH4	BUFF	R 7-	OTHE	R								



March 31, 2023

Matt Richards City of Vernon 4963 Soto St. Vernon, CA 90058

Report No.: 2303329 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 27, 2023.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 03/31/23

PLS Report No.: 2303329

Submitted: 03/27/23

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: C	Cooling Tower Blowdo	wn Wat	er (230	3329-0	1) Sar	npled: 0	3/27/23	07:35 R	eceived:	03/27/23				
Analyte	1	Results	Flag	D.F.	Units	PQL	Prer	o/Test Met	hod	Prepared	Anal	yzed	Ву	Batch
Total Dissolv	ved Solids	3200		1	mg/L	5.0	-	SM	2540C	03/28/23	03/2	9/23	vc	BC33126
				Qı	uality	Contr	ol Data	Ì						
					10 AU 22		Spike	Source		%REC		RPD		
Analyte		Resi	llt	PQL		Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC3312	6													
Blank		Prep	ared: 03	/28/23	Analyze	d: 03/29/	23							
Total Dissolved	d Solids	ND		5.0		mg/L								
LCS		Prep	ared: 03	/28/23	Analyze	d: 03/29/	23							
Total Dissolve	d Solids	46.0	0	5.0		mg/L	50.00		92.0	80-120				
Duplicate	Source: 2303329-0	1. Ргер	ared: 03	/28/23	Analyze	d: 03/29/	23							
Total Dissolved	d Solids	335	0	5.0		mg/L		3200			4.52	5		
Duplicate	Source: 2303293-0	7 Prep	ared: 03	/28/23	Analyze	d: 03/29/	23							
Total Dissolve	d Solids	234	0	5.0		mg/L		2240			4.59	5		

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

MDL. Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Rik Owen Parlier

Authorized Signature(s)

	n		CHA	IN OF	r CU	STOD	Y AN	ND A	NAI	LYSI	S RI	EQU	ES]	Г				
	<u>yr</u>		TIVE CHA 781 East Was ERVICE	hington B	lvd., Lo	s Angeles	s, CA 900	21							ATE:3-	27.2	3 F	PAGE: OF
		AB SI	ERVICE	[213] 74	5-5312	FAX (213	3] 745-63	72					ł	FILE N	0.:		LAB	NO .: 1403320
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NC).	MALBUI	RG GENEI	RATING S	TATION	WEEKLY	د <u>ا</u>	P.O.NC).			AIRBILL NO:
ADDRES	SS:	4963 SOT	FO ST. VERNON CA 90058									AN	ALY	SES RI	EQUES	TED		OBSERVED TEMP O. She
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX I	NO:									CORRECTED TEMP: <u>/・/</u> と Thermo id: <u></u>
SAMPLI	ER NAMI	£:	JOHN BARIE	SIGNA	TURE	· Tr-				:								THERMO ID:
TAT (Tu	rn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=			U U												
CONTA	INER TY	PES: B=B	erass; E=Encore/Easy Draw; P	-Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Oth	er					1			
UST PR	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other JST PROJECT: Y N GLOBAL ID#:																	
SAMPLE	SAMPLE DATE TIME SAMPLE DESCRIPTION MATRIX TAT CONTAINER												SAMPLE CONDITIONS/					
D	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER	<u> </u>	#	TYPE	TDS					_		CONTAINER/COMMENTS
	22723	7250	COOLING TOWER BLOWDOWN	X				N	1	P	X					_		
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					<u> </u>													
	•		·										_				-	
Relinquis	•	ignature&				Signature		e):		ر ۲	Date:			Time:	,			DISPOSITION
	NA		<u>.</u>		151	M BAR	è			37	272	3	0	735		1. Sai	mples re	eturned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		2. Sar	mples w	ill not be stored over 30 days,
																		onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (Signature	& Nam	e):			Date:			Time:		3. Sto	orage tir	ne requested:days,
																By:		Date:
SPECIA	L INSTR	UCTION			-t c													
			Arrived at the lab 3.27				DIICCI	-07	OTHE	D								

Appendix C Operation Logs

Malburg Generating Station Appendix C, Table 1 Combustion Turbine Generator (CTG) Startup and Shutdown Events During Quarter 1, 2023 CTG 1

		Clui		
Date	Event Type ¹	Event Start	Event End	Duration (hrs:min)
1/9/2023	Cold Start	1:43	1:56	0:13
1/25/2023	Shutdown	22:14	22:22	0:08
1/26/2023	Warm Start	10:05	10:18	0:13
3/3/2023	Shutdown	0:01	0:10	0:09
3/9/2023	Cold Start	15:09	15:34	0:25
3/11/2023	Shutdown	0:01	0:09	0:08
3/28/2023	Cold Start	4:16	4:29	0:13

CTG 2

Date	Event Type ¹	Event Start	Event End	Duration (hrs:min)
1/8/2023	Trip / Shutdown	22:02	22:02	0:00
1/24/2023	Cold Start	14:31	14:44	0:13
1/26/2023	Shutdown	11:14	11:22	0:08
2/27/2023	Cold Start	14:45	14:58	0:13
3/29/2023	Shutdown	22:00	22:07	0:07

¹ A startup event is defined as initiation of combustion until the system becomes emissions compliant, for consistency with the Title V Permit definitions.

Malburg Generating Station Appendix C, Table 2 Diesel Firewater Pump Testing Times During Quarter 1, 2023

During Quarter 1													
Date	Time (hh:mm)	Start Hours	End Hours	Event Type	Hours of Operation								
1/1/2023	19:15	355.2	355.7	Testing	0.5								
1/8/2023	18:18	355.7	356.2	Testing	0.5								
1/15/2023	18:17	356.2	356.7	Testing	0.5								
1/22/2023	21:20	356.7	357.2	Testing	0.5								
1/29/2023	18:04	357.2	357.7	Testing	0.5								
2/5/2023	18:51	357.7	358.2	Testing	0.5								
2/12/2023	18:23	358.2	358.7	Testing	0.5								
2/19/2023	22:06	358.7	359.2	Testing	0.5								
2/26/2023	18:12	359.2	359.7	Testing	0.5								
3/5/2023	17:26	359.7	360.2	Testing	0.5								
3/12/2023	19:51	360.2	360.7	Testing	0.5								
3/19/2023	18:42	360.7	361.2	Testing	0.5								
3/26/2023	18:14	361.2	361.7	Testing	0.5								

Appendix D Diesel Fuel Oil Purchase Records



SC Commercial, LLC, DBA SC Fuels 1800 West Katella Ave, Suite 400 P.O. Box 4159, Orange, CA 92863-4159

PLEASE REMIT ALL PAYMENTS TO: P.O. BOX 14237

ORANGE, CA 92863-1237

Ph: (800) 659-5823 Credit Inquiries: (888) SCFUELS Ext.6017

01-0001045 ACCT NO (Bill-to):

CITY OF VERNON 4305 SANTA FE AVE ATTN: DEPARTMENT D VERNON, CA 90058 (323) 583-8811

ACCT NO (Ship-to)

01-0001045 103L

CITY OF VERNON-SOTO ST-L 4963 SOTO ST VERNON, CA 90058

ITEM CODE		ITEM DESCRIPTION	QUANTITY ORDERED	QUANTITY DELIVERED	PACKAGE DESCRIPTION	EXTENDED QTY	UNIT PRICE	EXT PRICE
CH277210983D40 0	CH MEROP/ 277210983 \$3.39 PER TC	A 150	1 Whse:	1.00 101	400 LB DR	400.00	3.39000	1,356.00
422D055	DYED CARE NON TAXAB PENALTY FO 15 PPM OR	BULS DIESEL LE USE ONLY - DR TAXABLE USE LESS SULFUR - MAY P TO 5% BIODIESEL R TC	2 Whse:	2.00 101	55 G DR	110.00	4.35000	478.50
Federal Lust Federal Oil Spill							0.00100 0.00214	0.11 0.24
CA - AB 32 - DSL							0.00828	0.91
							4.36142	479.76
CH273204981D05 5	273204981 FORMERLY	R&O ISO 150 - 273213981 ED ON 2104708	0 Whse:	0.00 101	55 G DR	0.00	0.00000	0.00
/FUEI	CHLUBE	FUEL SURCHARGE LUBES						9.92
/RCFI	UBE	REG COMPLIANCE FEE LUBE	S					12.95
DRUMDEPOSITC 001	DRUM DEPO	DSIT FEE	3 Whse:	3.00 101	MISC CHRG	3.00	25.00000	75.00
MSRTNDRMC001	RETURN DF	RUM	0 Whse:	-2.00 101	MISC CHRG	2.00-	15.00000	30.00-

Save time, pay online! View invoices, make payments and more.	Net Invoice:	1,903.63
Sign up for the Customer Portal today. Email: creditinguiries@scfuels.com or Call 888-SCFuels	Less Discount:	0.00
Ext. 6017 or login to Customer Portal: https://customerportal.scfuels.com	Freight:	0.00
24-hour Emergency Response Call CHEMTREC: 800-424-9300	Sales Tax:	190.52
	Invoice Total:	2,094.15

- IN THE EVENT THAT THE ABOVE CHARGES ARE NOT PAID WHEN DUE, SC COMMERCIAL, LLC, DBA SC FUELS RESERVES THE RIGHT TO REFUSE FURTHER

- CHARGES TO THE ACCOUNT. A SERVICE CHARGE OF 1.5% PER MONTH{A.P.R. 18%} WILL APPLY TO ALL PAST DUE INVOICES.

- ERRORS IN PRICE, EXTENSION, AND ADDITION SUBJECT TO CORRECTION.

- It is the purchaser's responsibility to verify that all applicable taxes are being charged in accordance with fedral and state laws. - Prices shown on this invoice reflect discounts received for Payment by Cash, Check, or Electronic Funds Transfer (EFT). Payment by other means is subject to a 3% surcharge.

INVOICE DATE: 4/11/2022 DUE DATE: 5/11/2022 SHIP DATE: 4/11/2022

SHIP VIA: 924

ORDER DATE: 4/1/2022 ORDER NUMBER: 2100721 CUSTOMER PO: 055.0002948

TERMS: N30

Page 1 of 1

SALEPERSON: Todd Cripps

714-938-5714

Appendix E Excess Emission Reports

U1 CO Startup/Shutdown



From:	01/01/2023 00:00	To: 03/31/2023 2	3:59 Facility Name:	Malburg Generating Station			
Generated:	04/07/2023 08:54		Location:	Vernon, California			
Tag Name:	U1_CO_LbPerHr_1M		SI = SampleInvalid, * =	= Excess Emission			
Total Operating Time: 1,383.47 Hours							
Non-Operati	ng Time: 776.53 н	ours Report Time	: 2,160.00 Hours				

Unit Operation						
Event Period				Reason	Action	
Duration in Begin/EndDuration in Minute(s)Limit			Limit	Code - Description	Code - Description	

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report U1 CO Startup/Shutdown



From:01/01/2023 00:00To:03/31/2023 23:59Facility Name:Malburg Generating StationGenerated:04/07/2023 08:54Location:Vernon, CaliforniaTag Name:U1_CO_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,383.47HoursNon-Operating Time:776.53HoursReport Time:2,160.00Hours

No invalid events were found in the reporting period.

U1 NOx Startup/Shutdown



Unit Operation							
Event Period				Reason Action			
Duration in Begin/EndDuration in Minute(s)Lb/Event			Limit	Code - Description	Code - Description		

No excess emissions were found in the reporting period.



U1 NOx Startup/Shutdown



From:	01/01/2023 00	:00 To:	03/31/2023 23	:59 Facility Name:	Malburg Generating Station		
Generated:	04/07/2023 08	:55		Location:	Vernon, California		
Tag Name:	U1_NOXRECLM_L	bPerHr_1M		SI = SampleInvalid, * =	SI = SampleInvalid, * = Excess Emission		
Total Operating Time: 1,383.47 Hours							
Non-Operation	ng Time: 776.53	Hours	Report Time:	2,160.00 Hours			

No invalid events were found in the reporting period.

U1 VOC Startup/Shutdown



From:	01/01/2023 00:0) то:	03/31/2023 23	:59 Facility Name:	Malburg Generating Station		
Generated:	04/07/2023 08:5	5		Location:	Vernon, California		
Tag Name:	U1_VOC_LbPerHr_	Lм		SI = SampleInvalid, * =	SI = SampleInvalid, * = Excess Emission		
Total Operating Time: 1,383.47 Hours							
Non-Operati	ng Time: 776.53	lours	Report Time:	2,160.00 Hours			

Unit Operation						
Event Period				Reason	Action	
Duration in Begin/EndDuration in Minute(s)Lb/Event			Limit	Code - Description	Code - Description	

No excess emissions were found in the reporting period.

U1 VOC Startup/Shutdown



From:01/01/2023 00:00To:03/31/2023 23:59Facility Name:Malburg Generating StationGenerated:04/07/2023 08:55Location:Vernon, CaliforniaTag Name:U1_VOC_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,383.47HoursNon-Operating Time:776.53HoursReport Time:2,160.00Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 1 - CO ppmvdc 1-hour during Normal Operation

 From:
 01/01/2023
 00:00
 To:
 03/31/2023
 23:59
 Facility Name:

 Generated:
 04/07/2023
 08:56
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_CONormal_Ppmvdc_1HTotal Operating Time:1,388.00 Hour(s)Non-Operating Time:772.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

No incidents have been reported for this reporting period. Data is 100% in compliance.

Total Operating Time:	1,388.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 1 - NOx ppmvdc 1-hour during Normal Operation

 From:
 01/01/2023
 00:00
 To:
 03/31/2023
 23:59
 Facility Name:

 Generated:
 04/07/2023
 08:57
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_NOxNormal_Ppmvdc_1HTotal Operating Time:1,388.00 Hour(s)Non-Operating Time:772.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,388.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 1 - VOC ppmvdc 1-hour during Normal Operation

 From:
 01/01/2023
 00:00
 To:
 03/31/2023
 23:59
 Facility Name:

 Generated:
 04/07/2023
 08:57
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_VOCNormal_Ppmvdc_1HTotal Operating Time:1,388.00 Hour(s)Non-Operating Time:772.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,388.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Quad K Excess Emissions Report

U1 NOX 4-Hour Events

From:01/01/2023 00:00To:03/31/2023 23:59Generated:04/07/2023 08:58

Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name:U1_NOx4H_Ppmvdc_1HTotal Operating Time:1,388.00 Hour(s)Non-Operating Time:772.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,388.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 1 - CO ppmvdc 3-hour Rolling during Normal Operation

 From:
 01/01/2023 00:00
 To:
 03/31/2023 23:59
 Facility Name:
 Malburg Generating Station

 Generated:
 04/07/2023 09:04
 Location:
 Vernon, California



Tag Name:U1_C0_3HrRoll_Ppmvdc_1HTotal Operating Time:1,388.00 Hour(s)Non-Operating Time:772.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,388.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

U2 CO Startup/Shutdown Events



From:	01/01/2023 00:00	To: 03,	/31/2023 23:	59 Facil	ity Name:	Malburg	Generating	Station
Generated:	04/07/2023 08:59			Locat	ion:	Vernon,	California	
Tag Name:	U2_CO_LbPerHr_1M			SI = Samp	leInvalid, * = Ex	cess Emissior	1	
•	ting Time: ng Time: 1,199.13 Hou	960.87 Jrs	Hours Report Time:	2,160.00 H	ours			

Unit Operation								
Event Period				Reason	Action			
Begin/End	Duration in Minute(s)	Lb/Event	Limit	Code - Description	Code - Description			

No excess emissions were found in the reporting period.

U2 CO Startup/Shutdown Events From: 01/01/2023 00:00 To: 03/31/2023 23:59 Facility Name: Malburg Generating Station Generated: 04/07/2023 08:59 Location: Vernon, California Tag Name: U2_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission Total Operating Time: 960.87 Hours Non-Operating Time: 1,199.13 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.



Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown



	Unit Operation								
	Event Period			Reason	Action				
Duration in Begin/End Minute(s) Lb/Event Limit			Limit	Code - Description	Code - Description				

No excess emissions were found in the reporting period.



Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown



From:	01/01/2023 00:00	To: 03	3/31/2023 23	:59 Facility Name:	Malburg Generating	Station
Generated:	04/07/2023 08:59			Location:	Vernon, California	
Tag Name:	U2_NOxRECLM_LbPe	rHr_1M		SI = SampleInvalid, * =	Excess Emission	
Total Opera	ting Time:	960.87	Hours			
Non-Operati	ng Time: 1,199.13 Ho	ours	Report Time:	2,160.00 Hours		

No invalid events were found in the reporting period.

U2 VOC Startup/Shutdown Events



From:	01/01/2023 00:00	то: 03	/31/2023 23:	59 Facility Name	: Malburg Generating Station	n
Generated:	04/07/2023 09:00			Location:	Vernon, California	
Tag Name:	U2_VOC_LbPerHr_1M	l		<pre>SI = SampleInvalid,</pre>	* = Excess Emission	
•	l ting Time: ng Time: 1,199.13 How			2,160.00 Hours		

Unit Operation							
Event Period				Reason	Action		
Begin/End	Duration in Minute(s)		Limit	Code - Description	Code - Description		

No excess emissions were found in the reporting period.

U2 VOC Startup/Shutdown Events



From:01/01/2023 00:00To:03/31/2023 23:59Facility Name:Malburg Generating StationGenerated:04/07/2023 09:00Location:Vernon, CaliforniaTag Name:U2_VOC_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:960.87HoursNon-Operating Time:1,199.13HoursReport Time:2,160.00Hours

No invalid events were found in the reporting period.

Unit 2 - CO ppmvdc 1-hour during Normal Operation

 From:
 01/01/2023
 00:00
 To:
 03/31/2023
 23:59
 Facility Name:

 Generated:
 04/07/2023
 09:01
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_CONormal_Ppmvdc_1HTotal Operating Time:965.00 Hour(s)Non-Operating Time:1,195.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	965.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 2 - NOx ppmvdc 1-hour during Normal Operation

 From:
 01/01/2023
 00:00
 To:
 03/31/2023
 23:59
 Facility Name:

 Generated:
 04/07/2023
 09:01
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_NOxNormal_Ppmvdc_1HTotal Operating Time:965.00 Hour(s)Non-Operating Time:1,195.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	965.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 2 - VOC ppmvdc 1-hour during Normal Operation

 From:
 01/01/2023
 00:00
 To:
 03/31/2023
 23:59
 Facility Name:

 Generated:
 04/07/2023
 09:02
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_VOCNormal_Ppmvdc_1HTotal Operating Time:965.00 Hour(s)Non-Operating Time:1,195.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	965.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Quad K Excess Emissions Report

U2 NOX 4-Hour Events

From:01/01/202300:00To:03/31/202323:59Generated:04/07/202309:02

9 Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name:U2_NOx4H_Ppmvdc_1HTotal Operating Time:965.00 Hour(s)Non-Operating Time:1,195.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	965.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 2 - CO ppmvdc 3-hour Rolling during Normal Operation

 From:
 01/01/2023 00:00
 To: 03/31/2023 23:59
 Facility Name:
 Malburg Generating Station

 Generated:
 04/07/2023 09:03
 Location:
 Vernon, California



Tag Name:U2_CO_3HrRoll_Ppmvdc_1HTotal Operating Time:965.00 Hour(s)Non-Operating Time:1,195.00 Hour(s)Report Time:2,160.00 Hour(s)Report Time:2,160.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	965.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %