DOCKETED		
Docket Number:	01-AFC-25C	
Project Title:	Malburg Generating Station-Compliance	
TN #:	248601	
Document Title:	Malburg Generating Station Quarterly Compliance Report Q4 2022	
Description:	N/A	
Filer:	Elyse Engel	
Organization:	Jacobs Engineering Group Inc.	
Submitter Role:	Applicant	
Submission Date:	1/30/2023 11:03:50 AM	
Docketed Date:	1/30/2023	



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January 30, 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: 2022 Q4 Compliance Report October 1, 2022, through December 31, 2022 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 October 1, 2022, through December 31, 2022. 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 MRichards@cityofvernon.org or (323) 583-8811 x378.

Sincerely,

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

Enclosure: MGS 2022 Q4 Compliance Report

Exclusively Industrial

Malburg Generating Station Quarterly Compliance Report (Fourth Quarter 2022)

Submitted to California Energy Commission

Submitted by City of Vernon, Public Utilities Department

January 30, 2023

Document no: da8881fa_23012514 Revision no: 0



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Acronyms and Abbreviations

CEC	California Energy Commission
CEMS	continuous emissions monitoring system
СО	carbon monoxide
COC	Conditions of Certification
СТБ	combustion turbine generator
DAHS	data acquisition and handling system
gr/scf	grains per standard cubic foot
HRSG	heat recovery steam generator
lb/day	pounds per day
lb/hr	pounds per hour
MGS	Malburg Generating Station
NH ₃	ammonia
NOx	nitrogen oxides
PM10	particulate matter with an aerodynamic diameter less than or equal to 10 microns
PM _{2.5}	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
ppm	parts per million
ppmv	parts per million by volume
ppmw	parts per million by weight
QCR	Quarterly Compliance Report
RECLAIM	Regional Clean Air Incentives Market
SCAQMD	South Coast Air Quality Management District
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 fourth quarter of 2022 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 fourth quarter of 2022 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 fourth quarter of 2022 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 fourth quarter of 2022, 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 fourth quarter of 2022 are provided in Appendix A, Table 1B. Annual emissions of these same pollutants are provided in Appendix A, Table 1A. ¹

Table 2-1. Required Quarterly Compliance Report Documentation

¹ During preparation of the 2022 Quarter 2 Emissions Data Report for submittal to the U.S. Environmental Protection Agency (EPA), missing data procedures were triggered for combustion turbine fuel flow measurements made between April 1, 2022 and May 19, 2022. As a result, the annual emissions presented in Appendix A, Table 1A incorporate revised emission estimates for the 2nd quarter of 2022, where dependent on data substituted fuel flow.

Condition of Certification	Response
AQ-2	Low sulfur diesel fuel was last purchased on April 11, 2022 (second quarter). 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.
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 fourth quarter of 2022 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 fourth quarter 2022 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-32	The NOx Regional Clean Air Incentives Market (RECLAIM) annual emission allocation information for the MGS facility, received from the SCAQMD for compliance year 2022 – 2023, is provided in Appendix F.
AQ-36	See the responses for COCs AQ-5 and AQ-6.

Malburg Generating Station Quarterly Compliance Report (Fourth Quarter 2022)

Appendix A MGS Emission Calculations

Malburg Generating Station Quarterly Compliance Report Appendix A, Tables 1 and 1A

Reporting Period: Quarter 4 2022

Table 1A. Annual Emissions - Calendar Year 2022¹

	Annual Emissions (lb/year)					
Source	NOx	СО	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃
CTG 1 & Duct Burner	13,439	4,971	2,856	520	11,153	17,058
CTG 2 & Duct Burner	14,534	5,042	3,041	550	11,873	18,149
Cooling Tower					452	
Diesel Firewater Pump	128	3.7	0.9	0.1	0.8	
Total	28,101	10,016	5,898	1,071	23,479	35,207

Protection Agency (EPA), missing data procedures were triggered for combustion turbine fuel flow measurements made between April 1, 2022 and May 19, 2022. As a result, the annual emissions presented above incorporate data substituted fuel flow and revised emission estimates for the 2nd quarter of 2022, where dependent on fuel flow.

Table 1B. Quarterly Emissions - October 1, 2022 through December 31, 2022

	Quarterly Emissions (lb/quarter)					
Source	NOx	СО	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃
CTG 1 & Duct Burner	2,969	1,053	629	114	2,456	3,764
CTG 2 & Duct Burner	3,693	1,292	778	140	3,038	4,640
Cooling Tower					120	
Diesel Firewater Pump	34.7	1.0	0.3	0.0	0.2	
Total	6,697	2,346	1,407	254	5,615	8,404

Malburg Generating Station Quarterly Compliance Report Appendix A, Table 2

Reporting Period: Quarter 4 2022

Table 2. Cooling Tower Total Dissolved Solids (TDS) Sampling Results ^{1,2}

Sampling Period		
Start Date	End Date	TDS (ppm)
9/25/2022	10/1/2022	4,080
10/2/2022	10/8/2022	4,520
10/9/2022	10/15/2022	4,680
10/16/2022	10/22/2022	4,120
10/23/2022	10/29/2022	3,900
10/30/2022	11/5/2022	3,800
11/6/2022	11/12/2022	3,980
11/13/2022	11/19/2022	
11/20/2022	11/26/2022	4,220
11/27/2022	12/3/2022	4,550
12/4/2022	12/10/2022	4,360
12/11/2022	12/17/2022	3,970
12/18/2022	12/24/2022	4,560
12/25/2022	12/31/2022	4,280

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

² MGS experienced an outage November 13 through November 17, 2022; therefore, a Cooling Tower Blowdown Report was not prepared during this time.

Malburg Generating Station Quarterly Compliance Report Appendix A, Table 3

Reporting Period: October 2022

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

Sample Date	Period Start Date	End Date	TDS (ppm)
9/27/2022	9/25/2022	10/1/2022	4,080
10/5/2022	10/2/2022	10/8/2022	4,520
10/10/2022	10/9/2022	10/15/2022	4,680
10/18/2022	10/16/2022	10/22/2022	4,120
10/24/2022	10/23/2022	10/29/2022	3,900
11/2/2022	10/30/2022	11/5/2022	3,800

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)	21,000	
Water Density	8.334	
(lb/gal)	8.554	
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 Limit
Date	(gal/day) ¹	TDS (ppm)	(lb/day)	2
10/1/2022	38,880,000	4,080	1.32	No
10/2/2022	38,880,000	4,520	1.46	No
10/3/2022	38,880,000	4,520	1.46	No
10/4/2022	38,880,000	4,520	1.46	No
10/5/2022	38,880,000	4,520	1.46	No
10/6/2022	38,880,000	4,520	1.46	No
10/7/2022	38,880,000	4,520	1.46	No
10/8/2022	38,880,000	4,520	1.46	No
10/9/2022	38,880,000	4,680	1.52	No
10/10/2022	38,880,000	4,680	1.52	No
10/11/2022	38,880,000	4,680	1.52	No
10/12/2022	38,880,000	4,680	1.52	No
10/13/2022	38,880,000	4,680	1.52	No
10/14/2022	38,880,000	4,680	1.52	No
10/15/2022	38,880,000	4,680	1.52	No
10/16/2022	38,880,000	4,120	1.33	No
10/17/2022	38,880,000	4,120	1.33	No
10/18/2022	38,880,000	4,120	1.33	No
10/19/2022	38,880,000	4,120	1.33	No
10/20/2022	38,880,000	4,120	1.33	No
10/21/2022	38,880,000	4,120	1.33	No
10/22/2022	38,880,000	4,120	1.33	No
10/23/2022	38,880,000	3,900	1.26	No
10/24/2022	38,880,000	3,900	1.26	No
10/25/2022	38,880,000	3,900	1.26	No
10/26/2022	38,880,000	3,900	1.26	No
10/27/2022	38,880,000	3,900	1.26	No
10/28/2022	38,880,000	3,900	1.26	No
10/29/2022	38,880,000	3,900	1.26	No
10/30/2022	38,880,000	3,800	1.23	No
10/31/2022	38,880,000	3,800	1.23	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.

Malburg Generating Station Quarterly Compliance Report Appendix A, Table 4

Reporting Period: November 2022

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	5 I.D. (
Sample Date ¹	Start Date	End Date	TDS (ppm)
11/2/2022	10/30/2022	11/5/2022	3,800
11/7/2022	11/6/2022	11/12/2022	3,980
	11/13/2022	11/19/2022	
11/23/2022	11/20/2022	11/26/2022	4,220
11/29/2022	11/27/2022	12/3/2022	4,550

¹ MGS experienced an outage November 13 through November 17, 2022; therefore, a Cooling Tower Blowdown Report was not prepared during this time.

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)	21,000
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.

	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day PM ₁₀
Jate	(gal/day) ¹	TDS (ppm) ²	(lb/day)	Limit? ²
11/1/2022	38,880,000	3,800	1.23	No
11/2/2022	38,880,000	3,800	1.23	No
11/3/2022	38,880,000	3,800	1.23	No
11/4/2022	38,880,000	3,800	1.23	No
11/5/2022	38,880,000	3,800	1.23	No
11/6/2022	38,880,000	3,980	1.29	No
11/7/2022	38,880,000	3,980	1.29	No
11/8/2022	38,880,000	3,980	1.29	No
11/9/2022	38,880,000	3,980	1.29	No
11/10/2022	38,880,000	3,980	1.29	No
11/11/2022	38,880,000	3,980	1.29	No
11/12/2022	38,880,000	3,980	1.29	No
11/13/2022	0		0.00	No
11/14/2022	0		0.00	No
11/15/2022	0		0.00	No
11/16/2022	0		0.00	No
11/17/2022	0		0.00	No
11/18/2022	38,880,000	4,220	1.37	No
11/19/2022	38,880,000	4,220	1.37	No
11/20/2022	38,880,000	4,220	1.37	No
11/21/2022	38,880,000	4,220	1.37	No
11/22/2022	38,880,000	4,220	1.37	No
11/23/2022	38,880,000	4,220	1.37	No
11/24/2022	38,880,000	4,220	1.37	No
11/25/2022	38,880,000	4,220	1.37	No
11/26/2022	38,880,000	4,220	1.37	No
11/27/2022	38,880,000	4,550	1.47	No
11/28/2022	38,880,000	4,550	1.47	No
11/29/2022	38,880,000	4,550	1.47	No
11/30/2022	38,880,000	4,550	1.47	No

Cooling Tower Daily PM₁₀ Emissions

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 MGS experience an outage November 13 through November 17, 2022; therefore, a Cooling Tower Blowdown Report was not prepared during this time. For days that MGS operated during the week of November 13 through November 19, 2022, sample results were assumed to be best represented by the results sampled on November 23, 2022.

² Daily emissions limit established in COC AQ-C7.

Malburg Generating Station Quarterly Compliance Report Appendix A, Table 5

Reporting Period: December 2022

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

Sample Date	Period Start Date	End Date	TDS (ppm)
11/29/2022	11/27/2022	12/3/2022	4,550
12/6/2022	12/4/2022	12/10/2022	4,360
12/12/2022	12/11/2022	12/17/2022	3,970
12/20/2022	12/18/2022	12/24/2022	4,560
12/27/2022	12/25/2022	12/31/2022	4,280

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	0.3
(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 PM₁₀ Emissions

	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day PM ₁
ate	(gal/day) ¹	TDS (ppm)	(lb/day)	Limit? ²
12/1/2022	38,880,000	4,550	1.47	No
12/2/2022	38,880,000	4,550	1.47	No
12/3/2022	38,880,000	4,550	1.47	No
12/4/2022	38,880,000	4,360	1.41	No
12/5/2022	38,880,000	4,360	1.41	No
12/6/2022	38,880,000	4,360	1.41	No
12/7/2022	38,880,000	4,360	1.41	No
12/8/2022	38,880,000	4,360	1.41	No
12/9/2022	38,880,000	4,360	1.41	No
12/10/2022	38,880,000	4,360	1.41	No
12/11/2022	38,880,000	3,970	1.29	No
12/12/2022	38,880,000	3,970	1.29	No
12/13/2022	38,880,000	3,970	1.29	No
12/14/2022	38,880,000	3,970	1.29	No
12/15/2022	38,880,000	3,970	1.29	No
12/16/2022	38,880,000	3,970	1.29	No
12/17/2022	38,880,000	3,970	1.29	No
12/18/2022	38,880,000	4,560	1.48	No
12/19/2022	38,880,000	4,560	1.48	No
12/20/2022	38,880,000	4,560	1.48	No
12/21/2022	38,880,000	4,560	1.48	No
12/22/2022	38,880,000	4,560	1.48	No
12/23/2022	38,880,000	4,560	1.48	No
12/24/2022	38,880,000	4,560	1.48	No
12/25/2022	38,880,000	4,280	1.39	No
12/26/2022	38,880,000	4,280	1.39	No
12/27/2022	38,880,000	4,280	1.39	No
12/28/2022	38,880,000	4,280	1.39	No
12/29/2022	38,880,000	4,280	1.39	No
12/30/2022	38,880,000	4,280	1.39	No
12/31/2022	38,880,000	4,280	1.39	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.

Malburg Generating Station Quarterly Compliance Report Appendix A, Tables 6, 7, 8, & 9

Reporting Period: Quarter 4 2022

Table 6. Monthly Turbine-Duct Burner Fuel Flow

	October	Above 405	November	Above 405	December	Above 405
Fuel Flow Source (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	168.0		159		77	
CTG 1 Duct Burner	1.88		1.52		1.93	
Total CTG 1 & Duct Burner	170	No	160	No	78	No
CTG 2	101		158		242	
CTG 2 Duct Burner	0.40		1.34		3.00	
Total CTG 2 & Duct Burner	101	No	159	No	245	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 - October 2022

	Monthly Emissions (Nonthly Emissions (lb/month) ¹				
Source	NOx ²	СО	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃ ³
CTG 1 & Duct Burner	1,224	444	261	47	1,022	1,563
CTG 2 & Duct Burner	739	243	155	28	608	924
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 - November 2022

	Monthly Emissions (Monthly Emissions (lb/month) ¹				
Source	NOx ²	СО	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃ ³
CTG 1 & Duct Burner	1,196	424	246	45	963	1,470
CTG 2 & Duct Burner	1,217	499	245	45	958	1,461
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 - December 2022

	Monthly Emissions (Monthly Emissions (lb/month) ¹				
Source	NOx ²	СО	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃ ³
CTG 1 & Duct Burner	548.15	185	121	21.9	472	732
CTG 2 & Duct Burner	1,737.23	551	377	67.4	1,472	2,254
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. Malburg Generating Station Quarterly Compliance Report Appendix A, Table 10

Reporting Peric Quarter 4 2022

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.
CO	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).

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

	Monthly Hours o	of Operation ¹		Fuel Usage	Monthly Er	nissions (l	b/month)		
Month	Maintenance	Testing	Emergency	(gal/month) ²	NOx	СО	VOC	SOx	PM ₁₀ /PM _{2.5}
January	0.0	2.5	0.0	28.0	13.1	0.38	0.10	0.01	0.09
February	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07
March	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07
April	0.0	1.9	0.0	21.3	10.0	0.29	0.07	0.00	0.07
May	0.0	1.2	0.0	13.4	6.3	0.18	0.05	0.00	0.04
June	0.0	1.6	0.0	17.9	8.4	0.24	0.06	0.00	0.05
July	0.5	2.0	0.0	28.0	13.1	0.38	0.10	0.01	0.09
August	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07
September	0.0	2.1	0.0	23.5	11.0	0.32	0.08	0.00	0.07
October	0.0	2.5	0.0	28.0	13.1	0.38	0.10	0.01	0.09
November	0.0	2.1	0.0	23.5	11.0	0.32	0.08	0.00	0.07
December	0.0	2.0	0.0	22.4	10.51	0.31	0.08	0.00	0.07
Q1 Total	0.0	6.5	0.0	72.8	34.1	0.99	0.25	0.02	0.22
Q2 Total	0.0	4.7	0.0	52.6	24.7	0.72	0.18	0.01	0.16
Q3 Total	0.5	6.1	0.0	73.9	34.7	1.0	0.25	0.02	0.23
Q4 Total	0.0	6.6	0.0	73.9	34.7	1.0	0.3	0.0	0.2
Annual Total	0.5	23.9	0.0	273.3	128.2	3.7	0.9	0.1	0.8
Annual Limi	t for Maintenance ar	nd Testing ³	50	_					
	Total Annual Limit ³		200						

Total Annual Limit ³ Exceeds Limits?

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

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



October 05, 2022

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

Report No.: 2209247 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 September 27, 2022.

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: 10/05/22

PLS Report No.: 2209247

Submitted: 09/27/22

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 Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	4080		1	mg/L	5.0	•	SM 2540C	10/03/22	10/04/22	VC	BJ20443
Total Dissolved Solids	4080					ol Data		10/03/22	10/04/22	vc	DJ2

Total Dissolved	Source: 2209247-01	4240	1.0/03/22 An: 5.0	ma/L	122	4080			3.72	5	
Duplicate	Courses 2200247 01		0 (03 /33 4-	<u>.</u>	/22		~				
Total Dissolved	l Solids	56.0	5,0	mg/L	50.00		112	80-120			
LCS	· · · · ·	Prepared: 1	.0/03/22 An	alyzed: 10/04	/22						
Total Dissolved	Solids	ND	5.0	mg/L							
Blank		Prepared: J	.0/03/22 An	alyzed: 10/04	/22						
Batch BJ20442											

Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

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 Par lin

Authorized Signature(s)

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		NB S	ERVICE			FAX (21)								, FILE 1		14			NO.:
CLIENT	NAME:	CITY OF	FVERNON	PROJE	CT N	AME/NO	D.	MALBU	RG GENEI	RATING S	FATION	WEEKL		P.O.N	*******				AIRBILL NO:
ADDRE	SS:	4963 SOT	ΓΟ ST. VERNON CA 90058									AN	IALY	SES F	REQUE	ESTI	ED		OBSERVED TEMP 1. 0 2
PROJE	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:										corrected temp: <u>D13</u> 20
SAMPL	ER NAMI	l:	JOHN BARIE	SIGNA	TURE	: P	/												THERMO ID:
TAT (TI	ırn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal												
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; H	P=Plastic	; G=G	lass; V=	=VOA V	vial; ()=Oth	er	:								
UST PR	OJECT:	Y N	GLOBAL ID#:																
SAMPLE		TIME	SAMPLE DESCRIPTION		MA	TRIX	1	TAT		AINER	S								SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								CONTAINER/COMMENTS
	927-22	0925	COOLING TOWER BLOWDOWN	X				N	1	Р	Х								
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SFECIA		UCTION	Arrived at the lab 9.27	22 1	000														
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE				BLIEFE	R 7-		D									



October 12, 2022

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

Report No.: 2210041 Project Name: Malburg Generating Station

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on October 05, 2022.

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.

Alle Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 10/12/22

PLS Report No.: 2210041

Submitted: 10/05/22

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

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

Project: Malburg Generating Station

Attn: Matt Richards

Analyte	Results	Flag	D,F.	Units	PQL	Prep/1	Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	4520		1	mg/L	5.0	-	SM 2540C	10/11/22	10/12/22	VC	BJ21225

					Spike	Source	%REC	RPD	
Analyte		Result	PQL	Units	Level	Result %F	REC Limits	RPD Limit	Qualifier
Batch BJ2122	5								
Blank		Prepared: 1	0/11/22 Ana	lyzed: 10/12	/22		······································	· · · · · · · · · · · · · · · · · · ·	
Total Dissolve	d Solids	ND	5.0	mg/L					
LCS		Prepared: 1	0/11/22 Ana	lyzed: 10/12	/22				
Total Dissolve	d Solids	40.0	5.0	mg/L	50.00	80	0.0 80-120		
Duplicate	Source: 2210101-01	Prepared: 1	0/11/22 Ana	lyzed: 10/12	/22				

Notes and Definitions

mg/L

4680

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

4710

Rick Owen Par

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Authorized Signature(s)

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Salist2 P														NO.:		1		10.: <u>14004</u>
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ADDRES	SS:	4963 SOT	TO ST. VERNON CA 90058	8								ANA	LYSES	REQU	EST	ED		DBSERVED TEMP <u>]- 4%</u>
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX N	NO:			-+	_					CORRECTED TEMP: 1.1.2
SAMPLI	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	:10							- 10 C				Т	HERMO ID
TAT (Tu	rn-Arour	nd-Time):	0=Same Day; 1=24 Hour;	2=48Hour;	(ETC	.) N=Noi	rmal											
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ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS		_				0	CONTAINER/COMMENTS
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		UCTION	Arrived at the lab /1 2-H2SO4 3-HCL 4- ZINC			H 6-NH4	BUFFI	ER 7-	OTHE	R								



October 14, 2022

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

Report No.: 2210101 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 October 10, 2022.

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: 10/14/22

PLS Report No.: 2210101

Submitted: 10/10/22

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	Re	esults	Flag	D.F.	Units	PQL	Pre	p/Test Metho	d	Prepared	Analy	zed	Ву	Batch
Total Dissol	ved Solids 4	4680		1	mg/L	5.0	-	SM 25	640C	10/11/22	10/12	/22	vc	BJ21225
				Qı	uality	Contro	ol Data	1						
							Spike	Source		%REC		RPD		
Analyte		Resu	llt	PQL		Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BJ2122	3													
Blank		Prep	ared: 10,	/11/22	Analyzed	1: 10/12/	22							
Total Dissolve	d Solids	ND		5.0		mg/L								
LCS		Prep	ared: 10,	/11/22	Analyzed	i: 10/12/	22							
Total Dissolve	d Solids	40.0)	5.0		mg/L	50.00		80.0	80-120				
Duplicate	Source: 2210101-01	Prep	ared: 10,	/11/22	Analyzed	i: 10/12/	22							
Total Dissolve	d Solids	4710)	5.0		mg/L		4680			0.710	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

Rite Owen U RA

Authorized Signature(s)

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			ERVICE	[213] 74	5-5312	FAX (21)	3) 745-63	72					FI	LE NO.:			LAB	PAGE: OF NO.: 2210101
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/N	0.	MALBU	RG GENEI	RATING S	TATION	WEEKLY		0.NO.				AIRBILL NO:
ADDRES	SS:	4963 SOT	FO ST. VERNON CA 90058									ANA	LYS	ES REQ	UEST	ED	3	OBSERVED TEMP <u>1 · 1 ⁻ 1</u>
PROJEC	T MANA	GER	MATT RICHARDS	PHONE				FAX	NO:									CORRECTED TEMP $D: \frac{7}{2}^{2c}$
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: P												THERMO ID:
TAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=				rmal			•* 								
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Oth	er								
			GLOBAL ID#:				,		r									
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION				OTHER		CONT #		rDS							SAMPLE CONDITIONS/ CONTAINER/COMMENTS
ID ·	SAMPLED	SAMPLED	COOLING TOWER BLOWDOWN	WATER X	SOIL	SLUDGE	UINER	N	#	TYPE P	T X							CONTAINER/COMMENTS
	10 10 00	COLL	COOLING TO WER BLOWDOWN					11	1	1						1		
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	<u>/</u>	A-	٢	fr-	J.J.	Barie				/c	2.10:2	12 (Bi	٢		1. San	iples re	turned to client? Yes No
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																By:		Date:
SPECIA	L INSTR	UCTION	: Arrived at the lab $\mathcal{D}'\mathcal{D}\mathcal{D}$															
PRESE		1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	C JOL TATE 5	/∽j -NaOŀ	H 6-NH4	BLIEF	-R 7-	OTHE	R								



October 25, 2022

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

Report No.: 2210192 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 October 18, 2022.

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

City of Ver 4963 Soto Vernon, C Attn: Matt Project: N	St. A 90058		: (323) 476 V	-3626	FAX:(3	23) 476-	3640		R	ubmitted	548 ate: 10/2 1: 10/18 ort No.	/22	
Sample ID: C	Cooling Tower Blowdown	Water	(2210192	-01) Sai	npled: 1	0/18/22	08:40 R	eceived:	10/18/22				
Analyte	Res	33.5	Flag D.F.	1000	4,354.94		p/Test Met	v N0	Prepared		yzed	Ву	Batch
Total Dissol	ved Solids 41	20	1	_{mg/L} Juality	5.0 Contro	- ol Data		2540C	10/24/22	10/2	25/22	VC	BJ22517
Analyte		Result	PQI		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Q	ualifier
Batch BJ22517	/												
Blank		Prepare	d: 10/24/22	Analyze	d: 10/25/	22							
Total Dissolve	d Solids	ND	5.0		mg/L								
LCS		Prepare	d: 10/24/22	Analyze	d: 10/25/	22							
Total Dissolve	d Solids	60.0	5.0		mg/L	50.00		120	80-120		_		
Duplicate	Source: 2210232-01	Prepare	d: 10/24/22	Analyze	d: 10/25/	22							
Total Dissolve	d Solids	3920	5.0		mg/L		3900			0.640	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)

CHAIN OF CUSTODY AND ANALYSIS REQUEST THE AND FOR CUSTODY AND ANALYSIS REQUEST DATE: JURG: OF THE ast Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372 CILENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO. AIRBILL NO: CLIENT NAME: CITY OF VERNON CA 90058 ANALYSES REQUESTED OBSERVED TEMP! 3? C. CONTAINER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP! 3? C. CONTAINER TYPES: B-Brass; E-Encore/Easy Draw; P-Plastic; G=Glass; V=VOA Vial; O=Other TAT CONTAINER SAMPLE DATE TIME SAMPLED ESCRIPTION MATRIX TAT CONTAINER DATE TIME SAMPLE DESCRIPTION MATRIX TAT CONTAINER DATE TIME SAMPLED BESCRIPTION MATRIX TAT CONTAINER DATE TIME SAMPLED SAMPLE DESCRIPTION MATRIX TAT CONTAINER DATE TIME SAMPLED BESCRIPTION MATRIX TAT CONTAINER DATE TIME SAMPLED SAMPLE ONL SLUDGE OTHER # TYPE E DATE TIME
CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO. AIRBILL NO: ADDRESS: 4963 SOTO ST. VERNON CA 90058 ANALYSES REQUESTED OBSERVED TEMP. 98588742 (CORRECTED TEMP. 08588742 (CORRECTED TEMP. 972 (CORRECTED TEMP. 972 (CORRECTED TEMP. 974 (COR
CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO. AIRBILL NO: ADDRESS: 4963 SOTO ST. VERNON CA 90058 ANALYSES REQUESTED OBSERVED TEMP!
PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP!./# GAMPLER NAME: JOHN BARIE SIGNATURE:
GAMPLER NAME: JOHN BARIE SIGNATURE: Image: Container/Contain
GAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 1000000000000000000000000000000000000
CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other UST PROJECT: Y N GLOBAL ID#:
UST PROJECT: Y N GLOBAL ID#:
SAMPLE DATE TIME SAMPLE DESCRIPTION MATRIX TAT CONTAINER ID SAMPLED SAMPLED WATER Soil Sludge other # TYPE P CONTAINER/COMMENTS
ID SAMPLED SAMPLED WATER SOIL SLUDGE OTHER # TYPE
1517;400946 COOLING TOWER BLOWDOWN X N I P X
Relinquished by (Signature & Name): Date: Time: SAMPLE DISPOSITION
MA Jo Jombore 10 100 000 1. Samples returned to client? Yes No
Relinquished by (Signature & Name): Date: Time: 2. Samples will not be stored over 30 days.
unless additional storage time is requested
Relinquished by (Signature & Name): Date: Time: 3. Storage time requested:days,
By:Date:
Arrived at the lab 0182 1155
PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER



October 28, 2022

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

Report No.: 2210232 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 October 24, 2022.

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: 10/28/22

PLS Report No.: 2210232

Submitted: 10/24/22

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 Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	3900		1	mg/L	5.0	-	SM 2540C	10/24/22	10/25/22	VC	BJ22517

					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BJ22517											
Blank		Prepared: 10	0/24/22 Ana	lyzed: 10/25	5/22	<u></u>					
Total Dissolved Solids		ND	5.0	mg/L							
LCS		Prepared: 10)/24/22 Ana	lyzed: 10/25	5/22						
Total Dissolved Solids		60.0	5.0	mg/L	50.00		120	80-120			
Duplicate	Source: 2210232-01	Prepared: 1	0/24/22 Ana	lyzed: 10/25	5/22						
Total Dissolved Solids		3920	5.0	mg/L		3900			0.640	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 Pan lin

Authorized Signature(s)

											_					_				
CHAIN OF CUSTODY AND ANALYSIS 1 781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372												EQUI		ST DATE: <u>10.242</u> PAGE: <u>l</u> OF <u>l</u> FILE NO.: <u>LAB NO.: <u>M</u>OM</u>						
CLIENT													2 6 1 6					AIRBILL NO:		
CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING S ADDRESS: 4963 SOTO ST. VERNON CA 90058 490058												ANALYSES REQUESTED						OBSERVED TEMP_1.3~~		
PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:																				
SAMPLER NAME: JOHN BARIE SIGNATURE:																corrected temp: <u>1</u> /3c thermo id: <u>66</u>				
																		THERIO ID.		
	TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal																			
	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other UST PROJECT: Y N GLOBAL ID#:																			
SAMPLE	DATE	TIME	MATRIX				TAT CONTA		AINER								SAMPLE CONDITIONS/			
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS							CONTAINER/COMMENTS		
	102422	0755	COOLING TOWER BLOWDOWN	x				N	1	P	x									
							-													
Relinquis	shed by (S	ignature&	Name):	Receive		Signature	& Nam	e):		,	Date:						IPLE DISPOSITION			
MAT Dragance								102422						0755 1. Samp				les returned to client? Yes No		
Relinquished by (Signature & Name): Received by (Signature & Name):											Date:							ill not be stored over 30 days, onal storage time is requested		
Relinquished by (Signature & Name): Received by (Signature & Name):									Date:		Time	Time: 3. Sto By: _			orage time requested:days,days,					
SPECIA	L INSTR	UCTION:	Arrived at the lab 0.22	122 C	BS	5														
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOŀ	1 6-NH4	BUFFE	R 7-	OTHE	R										



November 08, 2022

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

Report No.: 2211016 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 November 02, 2022.

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.

All Project Manager



Certificate of Analysis

Page 2 of 2

File #:74548 Report Date: 11/08/22 Submitted: 11/02/22 **PLS Report No.: 2211016**

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/1	Fest Method	Prepared	Analyzed	Бу	Batch
Total Dissolved Solids	3800		1	mg/L	5.0	-	SM 2540C	11/03/22	11/04/22	VC	BK20723

					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BK20723											
Blank		Prepared:	11/03/22 An	alyzed: 11/04	1/22						
Total Dissolved	Solids	ND	5.0	mg/L							
LCS		Prepared:	11/03/22 An	alyzed: 11/04	4/22						
Total Dissolved	Solids	45.0	5.0	mg/L	50.00		90.0	80-120			
Duplicate	Source: 2211016-01	Prepared:	11/03/22 Am	alyzed: 11/04	1/22						
Total Dissolved	Solids	3790	5.0	mg/L		3800			0.483	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 Parlies

		1.6. V *					**			****	0.0-	1077	DOT				
	$\Delta \mathbf{P}$	OS	TIVE CHA 781 East Was	IN OF	r CU Ivd., Lo	STOD s Angeles	Y AN , ca 900	N D A 121	NAI	LYSI	S RI	QU	LSI	DATE	: 71	1.21	PAGE: OF
Mr.		AB SI	ERVICE	(213) 74	5-5312	FAX (213) 745-63	72					FILI	E NO.:_			AB NO .: 201010
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N.	AME/NC).	MALBU	RG GENEI	RATING ST	TATION	WEEKLY	in the second	.NO.			AIRBILL NO:
ADDRES			TO ST. VERNON CA 90058								9	ANA	LYSES	S REQU	ESTI	ED	OBSERVED TEMP 1.42
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX N	NO:								CORRECTED TEMP: 1.2 C
SAMPLI	ER NAMI	E:	JOHN BARIE	SIGNA'	TURE	B											THERMO ID: 60
TAT (Tu	rn-Aroun	nd-Time):	0=Same Day; 1=24 Hour; 2=4	48Hour;	(ETC) N=Nor	mal										
CONTAI	NER TY	PES: B=B	rass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	VOA V	/ial; ()=Oth	er							
		r	GLOBAL ID#:					_	-								
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION	WATER	MA	TRIX	OTHER	TAT	CONT	AINER	IDS						SAMPLE CONDITIONS/ CONTAINER/COMMENTS
ID	sampled	SAMPLED		X	SOIL	SLUDGE	OTHER	N	#	P	E X						CONTAINER/COMMENTS
	11000	0050	COOLING TOWER BLOWDOWN	<u>л</u>				18	1		Λ				_		
		ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tin			SAMP	PLE DISPOSITION
1	LPJ			4	N					1	1.2:2	2	ÓĘ	30		1. Sampl	les returned to client? Yes No
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tin	ne:			les will not be stored over 30 days, dditional storage time is requested
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tin	ne:		3. Storag By:	ge time requested:days,days,
SPECIA	L INSTR	UCTION	Arrived at the lab (1.200	10905	/												
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOł	H 6-NH4	BUFF	ER 7-	OTHE	R							



November 14, 2022

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

Report No.: 2211085 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 November 07, 2022.

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



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······································		Certi	ificate of	F Analy	ysis		Page 2 of 2	
· · · ·					• • • • •	Fi	le #:74548	·. ·
City of Vernon						R	eport Date: 11/	14/22
4963 Soto St.				·		S	ubmitted: 11/07	7/22
Vernon, CA 90058	ч					· P	LS Report No	: 2211085
Attn: Matt Richards	Phone: (32	3) 476-362	26 FAX:(3	323) 476-	-3640			
Project: Malburg General	ting Station Weekly							
Sample ID: Cooling Tower B	llowdown Water (221	1085-01)	Sampled: 1	.1/07/22	11:10 Recei	ved: 11/07/22		
Analyte	Results Flag	D.F. l	Jnits PQL	Pre	p/Test Method	Prepared	Analyzed	By Batch
Total Dissolved Solids	3980	.1 r	ng/L 5.0	-	SM 2540	IC 11/10/22	11/11/22	VC BK21119
		Qua	lity Contr	ol Data)			
				Spike	Source	%REC	RPD	
Analyte	Result	PQL	Units	Level	Result %	REC Limits	RPD Limit	Qualifier
Batch BK21119								- 19 19 19 19 19 19 19 19 19 19 19 19 19
Blank	Prepared: 11,	/10/22 Ana	alyzed: 11/11,	/22				
Total Dissolved Solids	ND	5.0	mg/L					
LCS	Prepared: 11	/10/22 Ana	aiyzed: 11/11	/22				

Notes and Definitions

mg/L

mg/L

5.0

5.0

Prepared: 11/10/22 Analyzed: 11/11/22

50.00

3980

88.0

80-120

NA Not Applicable

Total Dissolved Solids

Total Dissolved Solids

Duplicate

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

Source: 2211085-01

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

44.0

4170

Fick Gaven Par li

4.58

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			TIVE RVICE CHA 781 East Was	hington B (213) 74	lvd., Lo 5-5312	is Angele: FAX (21)	s, CA 900 31 745-63	121						J	DATE:	<u>/1-7</u>	1.22	P PA	AGE: OF
TEA2	- 3hua /-		e iz v ice	()			,	-			·			FILE 1	10.:		I	LAB	NO .: 721085
CLIENT	NAME:	CITY OF	F VERNON	PROJE	CT N	AME/N	0.	MALBU	RG GENE	RATING S	TATION	WEEKL	Y	P.O.N	0.				AIRBILL NO:
ADDRES	SS:	4963 SOT	TO ST. VERNON CA 90058									AN	ALY	SES F	EQUI	ESTE	D		observed temp <u>().</u> 9%
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX I	NO:										CORRECTED TEMP: 2.74
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: S-	~											ŀ	THERMO ID: 6/2
TAT (Tu	rn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Noi	rmal												
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Othe	er									
UST PR	OJECT:	Y N	GLOBAL ID#:																
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX	1	TAT	CONT	AINER								ľ	SAMPLE CONDITIONS/
ю	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								CONTAINER/COMMENTS
	1172	1112	COOLING TOWER BLOWDOWN	X		ļ		N	1	Р	x								
										<u> </u>	ļ								
									ļ										
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		:	SAMI	PLE I	DISPOSITION
	M	/		Fil	~ ~	Jon B	สกริ				(1.)	22	1110				1. Samp	oles reta	urned to client? Yes No
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		2	2. Samp	oles wil	l not be stored over 30 days,
																	unless a	uddition	nal storage time is requested
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:			3. Stora	.ge time	e requested:days,
																J	Ву:		Date:
SPECIA	L INSTR	UCTION	•																
			Arrived at the lab 1/8-2	2073	30														
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE			- 6-NH4	BUFFE	ER 7-	OTHE	R									



December 05, 2022

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

Report No.: 2211343 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 November 23, 2022.

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

City of Vernon 4963 Soto St. Vernon, CA 90058 File #:74548 Report Date: 12/05/22 Submitted: 11/23/22 PLS Report No.: 2211343

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 Metho	d Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4220		1	mg/L	5.0	- SM 25	40C 11/30/22	12/01/22	VC	BL2052
			Q	uality (Contro	l Data				

, many co		кезиіс	- FYE	Unita		IVESUIC	TURLS			Litrate	Quantica
Batch BL2052	6		8 19 S 16 16 1								
Blank		Prepared: 1	1/30/22 Ana								
Total Dissolve	d Solids	ND	5.0	mg/L							
LCS		Prepared: 1	1/30/22 Ana	lyzed: 12/01	/22						
Total Dissolve	d Solids	48.0	5.0	mg/L	50.00		96.0	80~120			
Duplicate	Source: 2211367-01	Prepared: 1	1/30/22 Ana	lyzed: 12/01	/22						
Total Dissolve	d Solids	4350	5.0	mg/L		4550			4.43	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

																122672
	TVE CHAIN OF	CUSTO	IA YC	ND A	NAL	YSI				DAT	:: <u>//</u>	23.2	22		PA	GEOF/
	781 East Washington Blvd (213) 745-5312 FAX (213	I., Los Ange 3) 745-6372	les, CA 9	90021			LOG	ILL NC BOOK): NO		_ FIL	E NO.		1	LAB N(0.22 343
CLIENT NAME: W	Project Nar				erea	m		*				. NO.				OBSERV. TEMP: <u>/- 学^っ</u> CORREC. TEMP: <u>/- プ^っ</u>
ADDRESS:										REQU	ESTE	D:				THERMO ID: 67
PROJECT MANAGER: Math	TChasds PHONE NO:		FAX	NO:												PRESERVATIVE:
SAMPLER NAME: Jon Beije	(Printed)	(Signature)														REMARKS:
TAT (Analytical Turn Around Time):	: 0 = Same Day; 1 = 1 Day; 2 = 2 Days; 3	3 = 3 Days;	N = Norr	nal (5-	7 Work	ing Da	ays)									
CONTAINER TYPES: B = Brass,	E = Encore, G = Glass, P = Plastic, V = V	VOA Vial, O	= Other	•												
UST Project: Y N - Glol	oal ID#		<u></u>	-				35								
SAMPLE DATE TIME NO. SAMPLED SAMPLE	D SAMPLE DESCRIPTION		ATRIX	OTHER	TAT	CONT #	AINER	7-								SAMPLE CONDITION/ CONTAINER /COMMENTS:
11:23-22 08 25	- Lessing Tone Blandon	K			N	۱	P	مر								
							-									×
										_						
								-								*
								>				-				· · ·
	8			<u> </u>						-						
															<u> </u>	
D Bolingwiched Ruy (Circothurs and Bristod Name)	Dessived By (Gasetyr	and Brinted Non					, Date:		Time:			MDLE	DIEDO	OSITIO		
Relinquished By: (Signature and Printed Name) Relinquished By: (Signature and Printed Name)	Received By: (Signature FReceived By: (Signature Received By: (Signature					/	Date: 1:23:2 Date:	V	<u>O'B</u> Time:	2	1.	Samp	les retu	irned to	o client?	
Relinquished By: (Signature and Printed Name)	Received By: (Signature	and Printed Nar	ne)				Date:		Time:			additio	onal sto	orage ti	ime is re	over 30 days, unless equested.
SPECIAL INSTRUCTIONS:	Arrived at the lab /1.23-22 0930										3. 	10.000	ge time	reques	sted:	day Date
	SO4, 3-HCL, 4-Zinc Acetate, 5-NaOH	l, 6-NH4 Bi	uffer, 7-	Other				-								LAB COPY



December 05, 2022

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

Report No.: 2211367 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 November 29, 2022.

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



Blank

LCS

781 East Washington Blvd., Los Angeles, CA 90021 (213) 745-5312 FAX (213) 745-6372

			Ce	rtifica	ite of	Analy	/sis			Page 2	of 2		
City of Vernon 4963 Soto St. Vernon, CA 90058							·		R	le #:745 eport Da ubmitted L S Rep o	te: 12/0 : 11/29	/22	
Attn: Matt Richards	Pho	one: (323	8) 476-	3626	FAX:(3	23) 476-	3640		•	LO KCP			1007
Project: Malburg Generating Sta	tion We	ekly											÷
Sample ID: Cooling Tower Blowdov	vn Wat	er (221	1367-0	1) Sam	pled: 1	1/29/22	09:25 R	eceived:	11/29/22			<u>.</u>	
Anaiyte R	esults	Flag	D.F.	Units	PQL	Pre	o/Test Met	hod	Prepared	Anal	/zed	Ву	Batch
Total Dissolved Solids	4550		1	mg/L	5.0	-	SM	2540C	11/30/22	12/0	1/22	vc	BL2052
			Q	uality	Contro	ol Data							
Analyte	Resu	ilt	PQL		Inits	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qi	ualifier
Batch BL20526													0.03.08.97
Blank	Prep	ared: 11/	30/22	Analyzed	12/01/	22							
Total Dissolved Solids	ND	-	5.0	г	ng/L								
LCS	Prep	ared: 11/	30/22	Analyzed	12/01/2	22							
Total Dissolved Solids	48.0)	5.0	n	ng/L	50,00		96.0	80-120				
Duplicate Source: 2211367-01	Prep	ared: 11/	30/22	Analyzed:	: 12/01/	22							
)	5.0	_	ng/L		4550			4.43	5		-

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 Par lin

CLIENT	NAME:	CITY OF	FVERNON	PROJE	CT N	AME/NC).	MALBUI	RG GENE	RATING ST	TATION	VEEKLY	P.O.1	NO.				AIRBILL NO:
ADDRES	S:	4963 SOT	FO ST. VERNON CA 90058									ANA	LYSES	REQU	JEST	ED		OBSERVED TEMP 1.002
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX N	10:									CORRECTED TEMP:
SAMPLI	RNAME	D:	JOHN BARIE	SIGNA	TURE	: D	~		_									THERMO ID
TAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	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								
)JECT:		GLOBAL ID#:	 I		////												
SAMPLE ID	DATE SAMPLED	TIME	SAMPLE DESCRIPTION	WATER	SOIL	SLUDGE	OTHER	IAI	CONT #	TYPE	rds							SAMPLE CONDITIONS/ CONTAINER/COMMENTS
U U	1.2			X	SUIL	SLODGE	OTHER	N	1	P	E X		-					
	1.201.20	OAN	COOLING TOWER BLOWDOWN					IN	1	r			-					
										1								
										1								
Relinquis	hed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	:		SAM	PLE	DISPOSITION
)	VA		J	- J	mh	ଜ୍ୟାର				11.	201.22	/	092	5		1. Sam	ples re	eturned to client? Yes No
Relinquis	hed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time			2. Sam	ples w	vill not be stored over 30 days,
														_		unless :	additio	onal storage time is requested
Relinquis	hed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	:		3. Stora	age tin	me requested:days,
																By:		Date:
SPECIA	L INSTR	UCTION:	Arrived at the lab 11.292	n/ ,														
			11 - 12	1	3													



December 12, 2022

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

Report No.: 2212054 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 December 06, 2022.

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



			Cer	rtifica	ite of	Analy	/sis			Page 2	of 2		· . • .
City of Vernon 4963 Soto St. Vernon, CA 90058	•				·				Re	ile #:745 eport Da ubmitted LS Repo	ite: 12/1 1: 12/06,	/22	
Attn: Matt Richards	Pho	one: (323	3) 476-:	3626	FAX:(3	23) 476-	3640			•			
Project: Malburg Generating S	Station We	ekly											
Sample ID: Cooling Tower Blowd	own Wat	ter (221	2054-0	1) Sam	pled: 1	2/06/22	07:30 R	eceived:	12/06/22				
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Anal	yzed	By	Batch
Total Dissolved Solids	4360		1	mg/L	5.0	-	SM	2540C	12/07/22	12/0	8/22	VC	BL2090
			Qı	uality (Contro	ol Data	i						,
						Spike	Source		%REC		RPD		
Analyte	Resu	ılt	PQL	U	Jnits	Level	Result	%REC	Limits	RPD	Limit	Qı	ualifier
Batch BL20907		51651864039											
3lank	Prep	pared: 12/	07/22	Analyzed:	12/08/	22			<u></u>			<u>alitica a voieg</u>	<u></u>
Total Dissolved Solids	ND	1	5.0	m	ng/L								
LCS		pared: 12/	07/22 /	Analyzed:	12/08/:	22							
Total Dissolved Solids	52.0	-	5.0		ng/L	50.00		104	80-120				
Duplicate Source: 2212054-0		pared: 12/		-		22							
Total Dissolved Solids	4220	0	5.0	m	ng/L		4360			3.15	5		

N ND Analyte NOT DETECTED at or above the reported limit(s) Not Reported NR MDL Method Detection Limit PQL Practical Quantitation Limit

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

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			ERVICE CHA	shington B	lvd., Lo		s, CA 900	121			~ 11	-~~~		DAT E NO.:	E: <u>/2</u> _	6-2	ر P LAB	AGE: <u>1</u> OF <u>1</u> NO.: <u>12</u> 2054
CLIENT	NAME:	CITY OF	F VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENEF	RATING ST	TATION '	WEEKLY).NO.				AIRBILL NO:
ADDRES	S:	4963 SO]	TO ST. VERNON CA 90058									AN	ALYSE	S REQ	UEST	TED		OBSERVED TEMP <u>1.3 %</u>
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:	2		FAX 1	NO:									CORRECTED TEMP: 1.1.2
SAMPLE	R NAMI	E:	JOHN BARIE	SIGNA	TURE	: TT	-											THERMO ID: <u>61</u>
TAT (Tu	n-Aroun	id-Time):	0=Same Day; 1=24 Hour; 2	=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; ()=Othe	er								
UST PRO	JECT:	Y N	GLOBAL ID#:					-						ļ				
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	ATRIX		TAT	CONT	AINER	S							SAMPLE CONDITIONS/
TD	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS							CONTAINER/COMMENTS
/	2622	0730	COOLING TOWER BLOWDOWN	X	ļ			N	1	Р	X							<u> </u>
				_											-			
													_	_				
																-	<u> </u>	
																		-
D . I			<u> </u>		31	1	8 NI	->-			Date:			ne:		GAM		DISPOSITION
Relinquis /	neu by (S	ignature&	TName):			Signature	& Nam	e):		13	Date:							
			•	John			P. M	-).		/2				730			-	turned to client? Yes No
Relinquis	nea by (S	ignature&	Name):	Keceive	a by (:	Signature	& Nam	e):			Date:		111	ne:		1·	-	ill not be stored over 30 days,
D alin avia	had by (C		Nomole	D i	J 1	01	e NI	<u> </u>			Date:		T:-	ne:		-		
Relinquis	neu by (S	ignaturea		Receive	a oy (i	Signature	& Nam	e):			Date:		1 11	ne.		3. Stor	rage tin	ne requested:days,
SPECIAI	INSTR	UCTION	•													^{Dy.}		Date
SILCIA		UCTION	: Arrived at the lab	622,	/20×													
PRESER	VATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC AC	ETATE 5	-NaOl	H 6-NH4	BUFFE	ER 7-	OTHE	R								
																		· · · · ·

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December 22, 2022

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

Report No.: 2212149 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 December 12, 2022.

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	
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Page 2 of 2

	······································	- PLS Report No.: 2212149
Vernon, CA 90058		PLS Report No.: 2212149
4963 Soto St.		Submitted: 12/12/22
,		Report Date: 12/22/22
City of Vernon		Depart Date: 12/22/22
		File #:74548

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

POSITIVE LAB SERVICE

Sample ID: Cooling Tower Blow	wdown Wate	r (221	2149-0	1) Sam	pled: 12/1	2/22 08:20 Received:	12/12/22			
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	3970		1	mg/L	5.0 -	SM 2540C	12/15/22	12/16/22	VC	BL22034
			Q	uality (Control I	Data				

Analyte		Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BL22034											
Blank		Prepared: 1	2/15/22	Analyzed: 12/16/	'22						
Total Dissolved	1 Solids	ND	5.0	mg/L							
LCS		Prepared: 1	2/15/22	Analyzed: 12/16/	22						
Total Dissolved	1 Solids	55.0	5.0	mg/L	50.00		110	80-120			
Duplicate	Source: 2212149-01	Prepared: 1	2/15/22	Analyzed: 12/16/	'22						
Total Dissolved	1 Solids	3930	5.0	mg/L		3970			1.10	5	
Duplicate	Source: 2212216-02	Prepared: 1	2/15/22	Analyzed: 12/16/	'22						
Total Dissolved	t Solids	5820	5.0	mg/L		6110	21-11-		4.86	5	-

Notes and Definitions

NA	Not Applicable	
ND	Analyte NOT DETECTED at or above the reported limit(s)	
NR	Not Reported	-2.1 K
MDL,	Method Detection Limit	Fick V.
PQL	Practical Quantitation Limit	Aut
Environme	tal Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138	Aut

Owen Tarlin

CLIENT NAME: CITY OF VERNON	PROJE	CT N	AME/NO).	MALRIN	RG GENEI	RATING ST	TATION	VEEKLY	P.O.				AB NO.: 2	
ADDRESS: 4963 SOTO ST. VERNON CA 90		01 11								LYSES	REQU	EST	ED	OBSERVE	D TEMP 0.92
PROJECT MANAGER MATT RICHARDS	PHONE	NO:			FAX N	NO:								CORREC	гер <u>темр<i>0</i>-7</u> %
SAMPLER NAME: JOHN BARIE	SIGNA	TURE	: Ir	-										THERMO	ID.61
TAT (Turn-Around-Time): 0=Same Day; 1=24 Ho	ur; 2=48Hour;	(ETC) N=Nor	mal											응 ^한 19
CONTAINER TYPES: B=Brass; E=Encore/Easy D					'ial; ()=Oth	er								
UST PROJECT: Y N GLOBAL ID#:															
SAMPLE DATE TIME SAMPLE DESCRIP	TION	MA	TRIX		TAT	CONT	AINER	s						SAMPLE	CONDITIONS/
ID SAMPLED SAMPLED	WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS						CONTAIN	ER/COMMENTS
12-12-22 23 20 COOLING TOWER BLOW	DOWN X				N	1	Р	X		-	$\left \right $				
		<u> </u>									$\left - \right $				
										-	$\left \right $				
											+		-		
					-										1
								_							
Relinquished by (Signature& Name):	Receive	ed by (S	l Signature	& Nam	e):			Date:		Tim	e:		SAMP	LE DISPOS	TION
At	· ^	-	nAR		-/-		12	-122)	Oppo			1. Sampl	les returned to cli	ent? Yes No
Relinquished by (Signature& Name):	∇		Signature		e):			Date:		Tim	e:/		2. Sampl	les will not be sto	red over 30 days,
(orginantico)			0				7	1		To	R		unless ad	dditional storage	time is requested
Relinquished by (Signature& Name):	Receive	ed by (S	Signature	& Nam	e):			Date:		Tim	e:		3. Storag	ge time requested	:days,
1													Ву:	Date	
SPECIAL INSTRUCTION:												e ^{n e}	10 10 10	- *	
SPECIAL INSTRUCTION: Arrived at the lab	UR-W2102	5										ċ,	8.3	4 4	

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December 28, 2022

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

Report No.: 2212289 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 December 20, 2022.

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: 12/28/22

PLS Report No.: 2212289

Submitted: 12/20/22

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 Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4560		1	mg/L	5.0	- SM 2540C	12/21/22	12/22/22	VC	BL2213

			0.000		Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BL2213	j										
Blank		Prepared:	12/20/22 Ana	lyzed: 12/21	L/22						
Total Dissolve	d Solids	ND	5.0	mg/L							
LCS		Prepared:	12/20/22 Ana	lyzed: 12/21	L/22						
Total Dissolve	d Solids	48.0	5.0	mg/L	50.00		96.0	80-120			
Duplicate	Source: 2212226-01	Prepared:	12/20/22 Ana	lyzed: 12/21	L/22						
Total Dissolve	d Solids	1790	5.0	mg/L	2015 (A 1000)	1730	(1000) (1000)		3.29	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 Par leis

			TIVE CHA 781 East Wash	IN OH nington B (213) 74	F CU Ivd., Lo 5-5312	STOD is Angeles FAX (213	Y AN 5. CA 900 6] 745-63	ND A 121 172	NAI	LYSI	S RI	EQUI		DAT .E NO.:				AGE:OF] NO.::U1189
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENEI	RATING ST	TATION	WEEKLY	P. C).NO.				AIRBILL NO:
ADDRES			TO ST. VERNON CA 90058									ANA	LYSE	S REQ	UEST	ED		OBSERVED TEMP /.2 [°] C
PROJEC		GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: // ^J
SAMPLI			JOHN BARIE	SIGNA	TURE	: 77												THERMO ID: <u>66</u>
			0=Same Day; 1=24 Hour; 2=4															
`			Frass; E=Encore/Easy Draw; P					/ial; ()=Othe	er								
			GLOBAL ID#:															
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION			TRIX	1	TAT	CONT	AINER								SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER	ļ	#	TYPE	TDS				<u> </u>	ļ		CONTAINER/COMMENTS
	12-60-27	6950	COOLING TOWER BLOWDOWN	X				N	1	Р	X				ļ			
										<u> </u>								
Relinguis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		Ti	ne:		SAM	(PLE)	DISPOSITION
	MA	-		70-	Jén	Bin	-			F2	Via		O_{γ}	750		1. Sam	iples ret	urned to client? Yes No
Relinaui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	ie):			Date		Ti	me:		2, Sam	nples wi	ll not be stored over 30 days,
1	•	0	, ,													unless	additio	nal storage time is requested
Relinaui	shed by (S	lignature&	Name):	Receive	d by (S	Signature	& Nam	ıe):			Date		Ti	me:		3. Stor	rage tim	e requested:days,
	-2 (-	0	,		•	-										By:		Date:
SPECIA	L INSTR	UCTION	: Arrived at the lab $12-12$	22 11	42													
					(

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



January 04, 2023

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

Report No.: 2212342 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 December 27, 2022.

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: 01/04/23

PLS Report No.: 2212342

Submitted: 12/27/22

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 Wal	ter (221	2342-0	1) Sam	pled: 12	2/27/22 0	8:10 Received	: 12/27/22			
Analyte	Results	Flag	D.F.	Units	PQL	Prep/	Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4280		1	mg/L	5.0	*	SM 2540C	12/29/22	12/30/22	VC	BA30424
			Q	uality (Contro	ol Data					

la en desta de					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Límit	Qualifier
Batch BA30424	[
Blank		Prepared: 1	2/29/22 Ana	lyzed: 12/30)/22						
Total Dissolved	l Solids	ND	5.0	mg/L							
LCS		Prepared: 1	2/29/22 Ana	lyzed: 12/30)/22						
Total Dissolved	Solids	52.0	5.0	mg/L	50.00		104	80-120			
Duplicate	Source: 2212342-01	Prepared: 1	2/29/22 Ana	lyzed: 12/30	/22						
Total Dissolved	l Solids	4420	5.0	mg/L		4280			3.22	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 Dwen Par

Authorized Signature(s)

				IN OF	CU	STOD	YAN	ND A	NAI	LYSI	S RI	EQU	JES	Г					
			TIVE 781 East Was			s Angeles FAX (213						·]	I FILE N	DATE:_ IO.:	22	.722	P. LAB	AGE: OF NO.: UN342
CLIENT	NAME:	CITY OF	FVERNON	PROJE	CT N	AME/NO).	MALBU	RG GENER	RATING S'	TATION '	WEEKL		P.O.N					AIRBILL NO:
ADDRE	SS:	4963 SOT	FO ST. VERNON CA 90058									AN	ALY	SES R	EQUE	ISTI	ED		OBSERVED TEMP
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:		* **	FAX N	io:										CORRECTED TEMP: 12-2
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA'	ΓURE		•												THERMO ID: 50
TAT (Tu	ırn-Arour	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; P	=Plastic;	G=G	lass; V=	=VOA V	⁷ ial; ()=Othe	er									
UST PR	OJECT:	Y N	GLOBAL ID#:																
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX	T	TAT	CONT		s								SAMPLE CONDITIONS/
D	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								CONTAINER/COMMENTS
	1227.22	UBIO	COOLING TOWER BLOWDOWN	X				N	1	Р	Х			\rightarrow					
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Pelingui	shed by (S	l ignature&	Name).	Receive	l d by (9	l	& Nam	e).			Date:			Time			SAM	PLE	DISPOSITION
Kennqui	· •	A	Name).	T		Signature JJrnl		<i>c).</i>		14	127.2		Ĥ	10 045	۹ ۲				aurned to client? Yes No
Relinqui	· · ·	ignature&	Name).			Signature	<u> </u>				Date:		{	Time:	Þ			•	ill not be stored over 30 days,
Kennqui	silcu by (S	ignaturede	ivanc).	Receive	u 0y (.	Signature	oc ivain	0).			Date.			1 1110.				-	onal storage time is requested
Relinqui	ched by (S	ignature&	Name):	Receive		Signature	& Nam	e).			Date:			Time:			1		ne requested:days,
rteiniqui	shed by (b	ignaturee	ivancj.	Receive	u 09 (i	Jignature	ce i tain	•).			Dute.			1 1110.			By:	450 111	
SPECIA	L INSTR	UCTION	•																
			Arrived at the lab 1227	er 1045	,														
PRESE	RVATIVE	1_HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	NaOl	1 6-NH4	BUFF	-R 7-	OTHE	R									

Appendix C Operation Logs

Malburg Generating Station Appendix C, Table 1 Combustion Turbine Generator (CTG) Startup and Shutdown Events During Quarter 4, 2022 CTG 1

ciui						
Date	Event Type ¹	Event Start	Event End	Duration (hrs:min)		
10/21/2022	Shutdown	22:03	22:11	0:08		
10/31/2022	Cold Start	15:45	16:55	1:10		
11/3/2022	Trip / Shutdown	7:46	7:46	0:00		
11/3/2022	Warm Start	14:13	15:18	1:05		
11/12/2022	Shutdown	7:56	8:06	0:10		
11/22/2022	Cold Start	14:44	15:59	1:15		
12/9/2022	Shutdown	22:26	22:34	0:08		

CTG 2

Date	Event Type ¹	Event Start	Event End	Duration (hrs:min)
10/18/2022	Cold Start	14:43	15:55	1:12
11/3/2022	Trip / Shutdown	07:46	07:46	0:00
11/3/2022	Warm Start	16:32	17:03	0:31
11/3/2022	Trip / Shutdown	17:03	17:03	0:00
11/3/2022	Warm Start	21:15	22:16	1:01
11/12/2022	Shutdown	21:59	22:07	0:08
11/18/2022	Cold Start	10:53	12:17	1:24
11/23/2022	Shutdown	22:32	22:40	0:08
11/28/2022	Cold Start	14:43	16:05	1:22
12/5/2022	Shutdown	7:19	7:25	0:06
12/6/2022	Warm Start	14:56	16:02	1:06

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 4, 2022

During Quarter 4, 2022							
Date ¹	Time (hh:mm)	Start Hours	End Hours	Event Type	Hours of Operation		
10/2/2022	19:29	348.6	349.1	Testing	0.5		
10/9/2022	22:46	349.1	349.6	Testing	0.5		
10/16/2022	22:22	349.6	350.1	Testing	0.5		
10/23/2022	23:00	350.1	350.6	Testing	0.5		
10/30/2022	22:18	350.6	351.1	Testing	0.5		
11/6/2022	21:22	351.1	351.6	Testing	0.5		
11/13/2022		351.6	352.1	Testing	0.5		
11/20/2022	21:59	352.1	352.6	Testing	0.5		
11/27/2022	21:23	352.6	353.2	Testing	0.6		
12/4/2022	21:25	353.2	353.7	Testing	0.5		
12/11/2022	17:17	353.7	354.2	Testing	0.5		
12/18/2022	22:18	354.2	354.7	Testing	0.5		
12/25/2022	23:20	354.7	355.2	Testing	0.5		

¹ The actual record from the run conducted on November 13, 2022 is not available as the site experienced an issue with the handheld device used to record the data, such that the runtime record was lost before it could be uploaded. The runtime is based on the initial hour reading taken during the next testing period on November 20, 2022. The total hours included in the log are correct as the hour meter was operational and not affected by the handheld device issue.

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:	10/01/2022 00:00	To: 12/31/2022 23	:59 Facility Name:	Malburg Generating Station
Generated:	01/09/2023 22:38		Location:	Vernon, California
Tag Name:	U1_CO_LbPerHr_1M		SI = SampleInvalid, * =	= Excess Emission
Total Opera	ting Time:	1,192.00 Hours		
Non-Operati	ng Time: 1,016.00 Ho	urs Report Time:	2,208.00 Hours	

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.

Startup/Shutdown Excess Emissions Report U1 CO Startup/Shutdown



From:10/01/2022 00:00To:12/31/2022 23:59Facility Name:Malburg Generating StationGenerated:01/09/2023 22:38Location:Vernon, CaliforniaTag Name:U1_CO_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,192.00HoursNon-Operating Time:1,016.00HoursReport Time:2,208.00Hours

No invalid events were found in the reporting period.

U1 NOx Startup/Shutdown



From:10/01/2022 00:00To:12/31/2022 23:59Facility Name:Malburg Generating StationGenerated:01/09/2023 22:39Location:Vernon, CaliforniaTag Name:U1_NOXRECLM_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,192.00HoursNon-Operating Time:1,016.00HoursReport Time:2,208.00Hours

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.

U1 NOx Startup/Shutdown



From:	10/01/2022 00:00	To: 12/3	31/2022 23:	59 Facility Name:	Malburg	Generating Station
Generated:	01/09/2023 22:39			Location:	Vernon,	California
Tag Name:	U1_NOXRECLM_LbPe	rHr_1M		<pre>SI = SampleInvalid, * =</pre>	Excess Emission	1
Total Opera	ting Time:	1,192.00	Hours			
Non-Operatio	ng Time: 1,016.00 He	ours R	Report Time:	2,208.00 Hours		

No invalid events were found in the reporting period.

U1 VOC Startup/Shutdown



From:	10/01/2022 00:00	To: 12/31/2022 2	3:59 Facility Name:	Malburg Generating Station
Generated:	01/09/2023 22:41		Location:	Vernon, California
Tag Name:	U1_VOC_LbPerHr_1M	1	<pre>SI = SampleInvalid, *</pre>	= Excess Emission
	- 5	1,192.00 Hours		
Non-Operati	ng Time: 1,016.00 Ho	urs Report Time	e: 2,208.00 Hours	

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.

U1 VOC Startup/Shutdown



From:10/01/2022 00:00To:12/31/2022 23:59Facility Name:Malburg Generating StationGenerated:01/09/2023 22:41Location:Vernon, CaliforniaTag Name:U1_VOC_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,192.00HoursNon-Operating Time:1,016.00HoursReport Time:2,208.00Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 1 - CO ppmvdc 1-hour during Normal Operation

 From:
 10/01/2022
 00:00
 To:
 12/31/2022
 23:59
 Facility Name:

 Generated:
 01/09/2023
 22:44
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_CONormal_Ppmvdc_1HTotal Operating Time:1,196.00 Hour(s)Non-Operating Time:1,012.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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

Total Operating Time:	1,196.00 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:
 10/01/2022
 00:00
 To:
 12/31/2022
 23:59
 Facility Name:

 Generated:
 01/09/2023
 22:44
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_NOxNormal_Ppmvdc_1HTotal Operating Time:1,196.00 Hour(s)Non-Operating Time:1,012.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,196.00 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:
 10/01/2022
 00:00
 To:
 12/31/2022
 23:59
 Facility Name:

 Generated:
 01/09/2023
 22:45
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_VOCNormal_Ppmvdc_1HTotal Operating Time:1,196.00 Hour(s)Non-Operating Time:1,012.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,196.00 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:10/01/2022 00:00To:12/31/2022 23:59Generated:01/09/2023 22:46

9 Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name: U1_NOx4H_Ppmvdc_1H Total Operating Time: 1,196.00 Hour(s) Non-Operating Time: 1,012.00 Hour(s) Report Time: 2,208.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,196.00 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:
 10/01/2022 00:00
 To:
 12/31/2022 23:59
 Facility Name:
 Malburg Generating Station

 Generated:
 01/09/2023 22:47
 Location:
 Vernon, California



Tag Name:U1_C0_3HrRoll_Ppmvdc_1HTotal Operating Time:1,196.00 Hour(s)Non-Operating Time:1,012.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,196.00 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:	10/01/2022 00:00	To: 12/3	1/2022 23:5	9 Facility Name:	Malburg Generating Station
Generated:	01/09/2023 22:48	1		Location:	Vernon, California
Tag Name:	U2_CO_LbPerHr_1N	l		<pre>SI = SampleInvalid, * =</pre>	Excess Emission
Total Opera	ting Time:	1,496.73	Hours		
Non-Operati	ng Time: 711.27 н	ours Re	eport Time: 2	2,208.00 Hours	

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: 10/01/2022 00:00 To: 12/31/2022 23:59 Facility Name: Malburg Generating Station Generated: 01/09/2023 22:48 Location: Vernon, California Tag Name: U2_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission Total Operating Time: 1,496.73 Hours Non-Operating Time: 711.27 Hours Report Time: 2,208.00 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			
Beg	jin/End	Duration in Minute(s)	Lb/Event	Limit	Code - Description	Code - Description			

No excess emissions were found in the reporting period.



Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown



From:	10/01/2022 00:	00 то:	12/31/2022 23	:59 Facility Name	e: Malburg Generating Sta	ation
Generated:	01/09/2023 22:	49		Location:	Vernon, California	
Tag Name:	U2_NOXRECLM_Lb	PerHr_1M		<pre>SI = SampleInvalid,</pre>	* = Excess Emission	
Total Opera	ting Time:	1,496	.73 Hours			
Non-Operati	ng Time: 711.27	Hours	Report Time:	2,208.00 Hours		

No invalid events were found in the reporting period.

U2 VOC Startup/Shutdown Events



From:	10/01/2022 00:	00 To: 12	2/31/2022 23:	59 Facility Name:	Malburg	Generating	Station
Generated:	01/09/2023 22:	50		Location:	Vernon,	California	
Tag Name:	e: U2_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission						
Total Opera	ting Time:	1,496.7	'3 Hours				
Non-Operati	ng Time: 711.27	Hours	Report Time:	2,208.00 Hours			

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 VOC Startup/Shutdown Events



From:10/01/2022 00:00To:12/31/2022 23:59Facility Name:Malburg Generating StationGenerated:01/09/2023 22:50Location:Vernon, CaliforniaTag Name:U2_VOC_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,496.73HoursNon-Operating Time:711.27HoursReport Time: 2,208.00

No invalid events were found in the reporting period.

Unit 2 - CO ppmvdc 1-hour during Normal Operation

 From:
 10/01/2022
 00:00
 To:
 12/31/2022
 23:59
 Facility Name:

 Generated:
 01/09/2023
 22:51
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_CONormal_Ppmvdc_1HTotal Operating Time:1,504.00 Hour(s)Non-Operating Time:704.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,504.00 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:
 10/01/2022
 00:00
 To:
 12/31/2022
 23:59
 Facility Name:

 Generated:
 01/09/2023
 22:51
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_NOxNormal_Ppmvdc_1HTotal Operating Time:1,504.00 Hour(s)Non-Operating Time:704.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,504.00 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:
 10/01/2022
 00:00
 To:
 12/31/2022
 23:59
 Facility Name:

 Generated:
 01/09/2023
 22:52
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_VOCNormal_Ppmvdc_1HTotal Operating Time:1,504.00 Hour(s)Non-Operating Time:704.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,504.00 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:10/01/2022 00:00To:12/31/2022 23:59Generated:01/09/2023 22:52

Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name:U2_NOx4H_Ppmvdc_1HTotal Operating Time:1,504.00 Hour(s)Non-Operating Time:704.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,504.00 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:
 10/01/2022 00:00
 To:
 12/31/2022 23:59
 Facility Name:
 Malburg Generating Station

 Generated:
 01/09/2023 22:53
 Location:
 Vernon, California



Tag Name:U2_CO_3HrRoll_Ppmvdc_1HTotal Operating Time:1,504.00 Hour(s)Non-Operating Time:704.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,504.00 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 %

Appendix F MGS RECLAIM Annual Emission Allocation Information



Section B	Page: 1
Facility ID:	Page: 1 195802
Revision #:	18
Date:	July 01, 2022

FACILITY PERMIT TO OPERATE VERNON PUBLIC UTILITIES

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Yea Begin (month/	End	Zone	NOx RTC Initially Allocated	NOx RTC ¹ Holding as of 07/01/2022 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
1/2021	12/2021	Coastal	0	35409	0
7/2021	6/2022	Coastal	28480	19397	0
1/2022	12/2022	Coastal	0	15663	0
7/2022	6/2023	Coastal	28480	15663	0
1/2023	12/2023	Coastal	0	15663	0
7/2023	6/2024	Coastal	28480	15663	0
1/2024	12/2024	Coastal	0	15663	0
7/2024	6/2025	Coastal	28480	15663	0
1/2025	12/2025	Coastal	0	15663	0
7/2025	6/2026	Coastal	28480	15663	0
1/2026	12/2026	Coastal	0	15663	0
7/2026	6/2027	Coastal	28480	15663	0
1/2027	12/2027	Coastal	0	15663	0
7/2027	6/2028	Coastal	28480	15663	0
1/2028	12/2028	Coastal	0	15663	0
7/2028	6/2029	Coastal	28480	15663	0
1/2029	12/2029	Coastal	0	15663	0

Footnotes:

This number may change due to pending trades, emissions reported under Quarterly Certification
of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required
pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC
information can be obtained from the District's RTC Listing.

2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.



Section B	Page: 3 195802
Facility ID:	195802
Revision #:	18
Date:	July 01, 2022

FACILITY PERMIT TO OPERATE VERNON PUBLIC UTILITIES

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. If the facility submits a permit application to increase in an annual allocation to a level greater than the facility's starting Allocation plus Non-Tradable credits as listed below, the application will be evaluated for compliance with Rule 2005 (c)(4). Rule 2005 (e) - Trading Zone Restrictions applies if an annual allocation is increased to a level greater than the facility's Starting Allocation plus Non-Tradable Credits:

Year			NOx RTC	Non-Tradable
Begin (month/y	End year)	Zone	Starting Allocation (pounds)	Credits(NTC) (pounds)
7/1994	6/1995	Coastal	296280	7720