DOCKETED	
Docket Number:	01-AFC-25C
Project Title:	Malburg Generating Station-Compliance
TN #:	249914
Document Title:	Malburg Generating Station Quarterly Compliance Report Q1 2023
Description:	N/A
Filer:	Elyse Engel
Organization:	Jacobs Engineering Group Inc.
Submitter Role:	Applicant
Submission Date:	4/28/2023 4:19:07 PM
Docketed Date:	4/28/2023

City of Vernon

4305 Santa Fe Avenue, Vernon, California 90058
Telephone (323) 583-8811

April 28, 2023

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

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

Dr. Ali,

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

If you have any questions or need more information, please contact Matt Richards, Utilities Operations Manager, at 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 2023 Q1 Compliance Report

Malburg Generating Station Quarterly Compliance Report (First Quarter 2023)

Submitted to
California Energy Commission

Submitted by
City of Vernon, Public Utilities Department

April 28, 2023

Document no: 230426145101_6a0a1e47
Revision no: 0

Contents

Appendices

Table

Acronyms and Abbreviations

CEC	California Energy Commission's
CEMS	continuous emissions monitoring system
CO	carbon monoxide
COC	Conditions of Certification
CTGs	combustion turbine generators
DAHS	data acquisition and handling system
gr/scf	grain per standard cubic foot
HRSGs	heat recovery steam generators
lb/day	pounds per day
MGS	Malburg Generating Station
NH_3	ammonia
NOx	nitrogen oxides
PM_{10}	10 microns
$PM_{2.5}$	2.5 microns
ppm	parts per million
ppmv	parts per million by volume
ppmw	parts per million by weight
QCR	Quarterly Compliance Report
SOx	sulfur oxides
STG	steam turbine generator
TDS	total dissolved solids
VOC	volatile organic compound

1. Introduction

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

1.1 Project Location and Description

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

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

1.2 Organization of the Quarterly Compliance Report

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

2. Required Quarterly Compliance Report Documentation

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

Table 2-1. Required Quarterly Compliance Report Documentation

Condition of Certification	Response
AQ-C6	The weekly total dissolved solids (TDS) results for the first quarter of 2023 are provided in Appendix A, Table 2; the weekly sample reports collected for the same period are provided in Appendix B.
AQ-C7	Daily particulate matter with aerodynamic diameter less than or equal to 10 microns (PM_{10}) emissions from cooling tower operation during the first quarter of 2023 are provided in Appendix A, Tables 3 through 5. As shown, emissions were below the specified limit of 6.2 pounds per day (lb/day).
AQ-C8	Testing times for the diesel-fired emergency firewater pump during the first quarter of 2023 are provided in Appendix C, Table 2. MGS refrained from testing the diesel-fired emergency firewater pump in the same hour the CTGs were either started or shutdown.
AQ-C9	The CTG startup and shutdown details for the first quarter of 2023, including the duration and date of occurrence, are provided in Appendix C, Table 1.
AQ-C11	All ammonia (NH_3), nitrogen oxides (NOx), sulfur oxides (SOx), carbon monoxide (CO), PM_{10}, and volatile organic compound (VOC) emissions from MGS operation during the first quarter of 2023 are provided in Appendix A, Table 1.
AQ-2	Low sulfur diesel fuel was last purchased on April 11, 2022. The fuel purchase record is provided in Appendix D and demonstrates that the fuel does not contain sulfur compounds in excess of 15 parts per million by weight (ppmw).
AQ-3	See the response for COC AQ-2.

Condition of Certification	Response
AQ-5	Monthly emissions of CO, PM_{10}, particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), VOC, and SOx from CTG and duct burner operation during the first quarter of 2023 are presented in Appendix A, Tables 7 through 9. Fuel usage for each turbine-duct burner pair is provided in Appendix A, Table 6. As shown, emissions were below the monthly limits specified in Condition A63.4 of the site's Title V Permit.
AQ-6	See the response for COC AQ-C9.
AQ-9	See the response for COC AQ-C11. Additionally, quarterly NOx excess emission reports from the data acquisition and handling system (DAHS) are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected NOx emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 parts per million by volume (ppmv). All continuous emissions monitoring system (CEMS) data for MGS' CTGs are stored electronically onsite.
AQ-10	See the response for COC AQ-C11. Additionally, quarterly CO excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected CO emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 ppmv. All CEMS data for MGS' CTGs are stored electronically onsite.
AQ-11	See the response for COC AQ-C11. Additionally, quarterly VOC excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected VOC emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 ppmv. All CEMS data for MGS' CTGs are stored electronically onsite.
AQ-12	See the response for COC AQ-C11. Additionally, compliance with the specified limit of 5 parts per million (ppm) is primarily demonstrated through annual or quarterly source testing. The most recent NH_3 compliance source test, performed on November 1, 2022 with results submitted to the CEC on November 16, 2022, indicated compliance with the emission limits for both CTGs (0.6 ppm for CTG 1 and 0.5 ppm for CTG 2). NH_3 emissions are also calculated via the CEMS on an hourly basis and confirmed to comply with the NH_3 concentration limit of 5 ppm.
AQ-13	See the response for COC AQ-C11. Additionally, the most recent triennial compliance source test, performed in July 2022, indicated compliance with the Rule 475 particulate matter emission limits of 5 kilograms per hour (11 pounds per hour [lb/hr]) or 23 milligrams per cubic meter (0.01 grain per standard cubic foot [gr/scf]) for both CTGs (0.67 lb/hr and 0.0003 gr/scf for CTG 1 and 1.83 lb/hr and 0.0007 gr/scf for CTG 2).
AQ-14	See the response for COC AQ-2.
AQ-15	Quarterly hours of operation for the diesel-fired emergency firewater pump are provided in Appendix A, Table 10. As shown, the first quarter 2023 hours for maintenance and testing did not exceed 50 hours and the total operational hours did not exceed 200 hours.
AQ-27	See the response for COC AQ-5. As shown, fuel consumption per turbine-duct burner pair did not exceed the specified limit of 405 million cubic feet per month.
AQ-36	See the responses for COCs AQ-5 and AQ-6.

Appendix A
MGS Emission Calculations

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 1

Reporting Period: **Quarter 1 2023**

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

Source	Quarterly Emissions (lb/quarter) NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
CTG 1 & Duct Burner	3,361	1,277	704	126	2,749	4,187
CTG 2 & Duct Burner	2,302	776	490	88	1,912	2,902
Cooling Tower	--	--	--	--	127	--
Diesel Firewater Pump	34.1	1.0	0.2	0.0	0.2	0.1
Total	**5,697**	**2,055**	**1,194**	**214**	**4,789**	**7,090**

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 2

Reporting Period: **Quarter 1 2023**

Table 2. Cooling Tower Total Dissolved Solids (TDS) Sampling Results [1]

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

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

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 3

Reporting Period: **January 2023**

Cooling Tower Total Dissolved Solids (TDS) Sampling Results

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

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

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

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

Constants

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

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

[2] Per COC AQ-C4.

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

Cooling Tower Daily PM_{10} Emissions

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

[1] Maximum daily circulation rate conservatively used to estimate PM_{10} 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: **February 2023**

Cooling Tower Total Dissolved Solids (TDS) Sampling Results
Data Source: Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR

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

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

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

Constants

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

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

[2] Per COC AQ-C4.

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

Cooling Tower Daily PM_{10} Emissions

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

[1] Maximum daily circulation rate conservatively used to estimate PM_{10} 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 5

Reporting Period: **March 2023**

Cooling Tower Total Dissolved Solids (TDS) Sampling Results
Data Source: Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR

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

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

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

Constants

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

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

[2] Per COC AQ-C4.

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

Cooling Tower Daily PM_{10} Emissions

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

[1] Maximum daily circulation rate conservatively used to estimate PM_{10} 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 1 2023**

Table 6. Monthly Turbine-Duct Burner Fuel Flow

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

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

Table 7. Monthly Emissions - January 2023

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,303	500	268	48	1,046	1,592
CTG 2 & Duct Burner	568	206	116	21	454	692
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

[1] Unless otherwise noted, monthly emissions data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' RegPerfect Report.
[2] Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.
[3] Monthly NH_3 emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.
[4] Monthly emission limits are per COC AQ-5.

Table 8. Monthly Emissions - February 2023

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,591	529	353	63	1,379	2,104
CTG 2 & Duct Burner	117	97	19	3	73	112
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

[1] Unless otherwise noted, monthly emissions data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' RegPerfect Report.
[2] Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.
[3] Monthly NH_3 emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.
[4] Monthly emission limits are per COC AQ-5.

Table 9. Monthly Emissions - March 2023

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	466.98	249	83	15.0	324	492
CTG 2 & Duct Burner	1,616.75	473	355	63.4	1,385	2,099
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

[1] Unless otherwise noted, monthly emissions data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' RegPerfect Report.
[2] Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.
[3] Monthly NH_3 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 Period: **Quarter 1 2023**

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

Emission Factors

Pollutant	Emission Factor (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).
NH_3	0.800	Default for diesel combustion equipment without an SNCR or SCR given in the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Reporting Procedures - June 2020.

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

Month	Monthly Hours of Operation [1]			Fuel Usage	Monthly Emissions (lb/month)					
	Maintenance	Testing	Emergency	(gal/month) [2]	NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
January	0.0	2.5	0.0	28.0	13.1	0.38	0.10	0.01	0.09	0.02
February	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02
March	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02
April	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
May	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
June	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
July	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
August	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
September	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
October	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
November	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
December	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
Q1 Total	**0.0**	**6.5**	**0.0**	**72.8**	**34.1**	**0.99**	**0.25**	**0.02**	**0.22**	**0.06**
Q2 Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Q3 Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.00**	**0.00**	**0.00**
Q4 Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Annual Total	**0.0**	**6.5**	**0.0**	**72.8**	**34.1**	**1.0**	**0.2**	**0.0**	**0.2**	**0.1**
Annual Limit for Maintenance and Testing [3]			50							
Total Annual Limit [3]			200							
Exceeds Limits?			No							

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

Appendix B
Cooling Tower Blowdown Reports

POSITIVE
LAB SERVICE

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

January 13, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 01/13/23
Submitted: 01/04/23
PLS Report No.: 2301019

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2301019-01) Sampled: 01/04/23 08:35 Received: 01/04/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**5090**		1	mg/L	5.0	- SM 2540C	01/09/23	01/10/23	vc	BA31130

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA31130 - -										
Blank	**Prepared: 01/09/23 Analyzed: 01/10/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/09/23 Analyzed: 01/10/23**									
Total Dissolved Solids	47.0	5.0	mg/L	50.00		94.0	80-120			
Duplicate Source: 2301019-01	**Prepared: 01/09/23 Analyzed: 01/10/23**									
Total Dissolved Solids	4980	5.0	mg/L		5090			2.18	5	
Duplicate Source: 2301011-01	**Prepared: 01/09/23 Analyzed: 01/10/23**									
Total Dissolved Solids	3200	5.0	mg/L		3080			3.73	5	

Notes and Definitions

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

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 1-4-23 PAGE: 1 OF 1

FILE NO.: LAB NO.: 230109

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

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#: --- --- --- --- --- --- --- --- --- --- ---

AIRBILL NO:

OBSERVED TEMP 1.0 °C

CORRECTED TEMP: 0.6 °C

THERMO ID: 61

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	1-4-23	0835	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): John Barie

Date: 1-4-23 Time: 0835

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 1-4-23 1015

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

POSITIVE
LAB SERVICE

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

January 23, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 01/23/23
Submitted: 01/10/23
PLS Report No.: 2301145

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2301145-01) Sampled: 01/10/23 09:20 Received: 01/10/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4290**	R1	1	mg/L	5.0	- SM 2540C	01/18/23	01/19/23	vc	BA32329

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA32329 - -										
Blank	**Prepared: 01/18/23 Analyzed: 01/19/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/18/23 Analyzed: 01/19/23**									
Total Dissolved Solids	46.0	5.0	mg/L	50.00		92.0	80-120			
Duplicate Source: 2301145-01	**Prepared: 01/18/23 Analyzed: 01/19/23**									
Total Dissolved Solids	4410	5.0	mg/L		4290			2.69	5	
Duplicate Source: 2301258-01	**Prepared: 01/18/23 Analyzed: 01/19/23**									
Total Dissolved Solids	4620	5.0	mg/L		4570			1.00	5	

Notes and Definitions

R1	Sample Analyzed Past Holding Time.
NA	Not Applicable
ND	Analyte NOT DETECTED at or above the reported limit(s)
NR	Not Reported
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE
781 East Washington Blvd., Los Angeles, CA 90021
[213] 745-5312 FAX [213] 745-6372

DATE: 1-10-23 PAGE: 1 OF 1
FILE NO.: LAB NO.: 1301145

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

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#: --- --- --- --- --- --- --- --- --- ---

AIRBILL NO:

OBSERVED TEMP 1.5°C

CORRECTED TEMP: 1.7°C

THERMO ID: 66

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	1-10-23	0920	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
NA	JB Jon Barie	1-10-23	0920
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 1-10-23 1045

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

POSITIVE
LAB SERVICE

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

February 01, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

File #:74548
Report Date: 02/01/23
Submitted: 01/17/23
PLS Report No.: 2301317

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2301317-01) Sampled: 01/17/23 09:40 Received: 01/17/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4300**		1	mg/L	5.0	- SM 2540C	01/24/23	01/25/23	vc	BA33145

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA33145 - -										
Blank	**Prepared: 01/24/23 Analyzed: 01/25/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/24/23 Analyzed: 01/25/23**									
Total Dissolved Solids	47.0	5.0	mg/L	50.00		94.0	80-120			
Duplicate Source: 2301317-01	**Prepared: 01/24/23 Analyzed: 01/25/23**									
Total Dissolved Solids	4420	5.0	mg/L		4300			2.75	5	

Notes and Definitions

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

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

Rick Owen Parker

Authorized Signature(s)

POSITIVE LAB SERVICE

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 1-17-23 PAGE: 1 OF

FILE NO.: LAB NO.: 23013017

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO. AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058 OBSERVED TEMP 3.2°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 3.0°C

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 60

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#: --- --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	1-17-23	0940	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): NA Received by (Signature & Name): John Barie Date: 1-17-23 Time: 0940

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 1-17-23 1025

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

POSITIVE
LAB SERVICE

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

February 06, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 02/06/23
Submitted: 01/24/23
PLS Report No.: 2301399

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2301399-01) Sampled: 01/24/23 08:50 Received: 01/24/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3960**		1	mg/L	5.0	- SM 2540C	01/31/23	02/01/23	vc	BB30147

Quality Control Data

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

Notes and Definitions

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

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 1.24.23 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2301399

CLIENT NAME: CITY OF VERNON **PROJECT NAME/NO.** MALBURG GENERATING STATION WEEKLY **P.O.NO.**

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS **PHONE NO:** **FAX NO:**

SAMPLER NAME: JOHN BARIE **SIGNATURE:**

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#:** --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

OBSERVED TEMP 1.4°C
CORRECTED TEMP: 1.6°C
THERMO ID: 66

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	1.24.23	0850	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA

Received by (Signature & Name): John Barie

Date: 1.24.23 Time: 0850

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 1.24.23 1015

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

POSITIVE
LAB SERVICE

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

February 06, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 02/06/23
Submitted: 01/30/23
PLS Report No.: 2301440

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2301440-01) Sampled: 01/30/23 08:55 Received: 01/30/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4060**		1	mg/L	5.0	- SM 2540C	01/31/23	02/01/23	vc	BB30147

Quality Control Data

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

Notes and Definitions

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

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 1-30-23 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2301440

CLIENT NAME: CITY OF VERNON | PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY | P.O.NO. | AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | OBSERVED TEMP 1.0°C

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 1.2°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 66

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#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	1-30-23	0855	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA | Received by (Signature & Name): John Barie | Date: 1-30-23 | Time: 0855

Relinquished by (Signature& Name): | Received by (Signature & Name): | Date: | Time:

Relinquished by (Signature& Name): | Received by (Signature & Name): | Date: | Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 1-30-23 1030

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

POSITIVE
LAB SERVICE

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

February 13, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 02/13/23
Submitted: 02/07/23
PLS Report No.: 2302056

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2302056-01) Sampled: 02/07/23 08:15 Received: 02/07/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4420**		1	mg/L	5.0	- SM 2540C	02/07/23	02/08/23	vc	BB30904

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BB30904 - -										
Blank	**Prepared: 02/07/23 Analyzed: 02/08/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 02/07/23 Analyzed: 02/08/23**									
Total Dissolved Solids	54.0	5.0	mg/L	50.00		108	80-120			
Duplicate **Source: 2302022-01**	**Prepared: 02/07/23 Analyzed: 02/08/23**									
Total Dissolved Solids	1470	5.0	mg/L		1400			4.30	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 2-7-23 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 1302056

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

OBSERVED TEMP 1.3°C

CORRECTED TEMP: 1.5°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

THERMO ID: 60

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#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	2-7-23	0815	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
MA	John Barie	2-7-23	0815
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____ days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 2-7-23 1055

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

POSITIVE
LAB SERVICE

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

February 23, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 02/23/23
Submitted: 02/15/23
PLS Report No.: 2302113

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2302113-01) Sampled: 02/15/23 08:25 Received: 02/15/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4460**		1	mg/L	5.0	SM 2540C	02/21/23	02/22/23	vc	BB32314

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BB32314 - -										
Blank	**Prepared: 02/21/23 Analyzed: 02/22/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 02/21/23 Analyzed: 02/22/23**									
Total Dissolved Solids	54.0	5.0	mg/L	50.00		108	80-120			
Duplicate **Source: 2302113-01**	**Prepared: 02/21/23 Analyzed: 02/22/23**									
Total Dissolved Solids	4650	5.0	mg/L		4460			4.24	5	

Notes and Definitions

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

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE:_____ PAGE:_____ OF_____

FILE NO.:_____ LAB NO.: 2302113

CLIENT NAME: CITY OF VERNON | PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY | P.O.NO. | AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | OBSERVED TEMP 1.1°C

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 1.3°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: JB | THERMO ID: 66

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#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	2-15-23	825	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): NA | Received by (Signature & Name): John Barie | Date: 2-15-23 | Time: 0825

Relinquished by (Signature& Name): | Received by (Signature & Name): | Date: | Time:

Relinquished by (Signature& Name): | Received by (Signature & Name): | Date: | Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 2-15-23 930

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

POSITIVE
LAB SERVICE

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

February 27, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 02/27/23
Submitted: 02/21/23
PLS Report No.: 2302170

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2302170-01) Sampled: 02/21/23 08:25 Received: 02/21/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4400**		1	mg/L	5.0	- SM 2540C	02/21/23	02/22/23	vc	BB32314

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BB32314 - -										
Blank	**Prepared: 02/21/23 Analyzed: 02/22/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 02/21/23 Analyzed: 02/22/23**									
Total Dissolved Solids	54.0	5.0	mg/L	50.00		108	80-120			
Duplicate **Source: 2302113-01**	**Prepared: 02/21/23 Analyzed: 02/22/23**									
Total Dissolved Solids	4650	5.0	mg/L		4460			4.24	5	

Notes and Definitions

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

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

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE:_____ PAGE: ____ OF____

FILE NO.:_____ LAB NO.: 1302470

CLIENT NAME: CITY OF VERNON | PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY | P.O.NO. | AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | OBSERVED TEMP 1.2°C

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 1.4°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 60

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#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	2-2-23	0825	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
MA	John Barie	2-2-23	0825
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date:_____

SPECIAL INSTRUCTION:

Arrived at the lab 2-2-23 1140

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

POSITIVE LAB SERVICE

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

March 07, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 03/07/23
Submitted: 02/27/23
PLS Report No.: 2302245

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2302245-01) Sampled: 02/27/23 07:40 Received: 02/27/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4400**		1	mg/L	5.0	- SM 2540C	02/28/23	03/01/23	vc	BC30216

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC30216 - -										
Blank	**Prepared: 02/28/23 Analyzed: 03/01/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 02/28/23 Analyzed: 03/01/23**									
Total Dissolved Solids	46.0	5.0	mg/L	50.00		92.0	80-120			
Duplicate **Source: 2302245-01**	**Prepared: 02/28/23 Analyzed: 03/01/23**									
Total Dissolved Solids	4310	5.0	mg/L		4400			2.14	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 2-27-23 PAGE: 1 OF 1

FILE NO.: LAB NO.: 120145

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

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#: --- --- --- --- --- --- --- --- --- ---

AIRBILL NO:

OBSERVED TEMP 0.5°C

CORRECTED TEMP: 1.2°C

THERMO ID: 06

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	2-27-23	0740	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): Jonathan

Date: 2-27-23 Time: 0740

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 2-27-23 09a

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

POSITIVE
LAB SERVICE

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

March 17, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 03/17/23
Submitted: 03/08/23
PLS Report No.: 2303104

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2303104-01) Sampled: 03/08/23 08:35 Received: 03/08/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4860**		1	mg/L	5.0	- SM 2540C	03/14/23	03/15/23	vc	BC31609

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC31609 - -										
Blank	**Prepared: 03/14/23 Analyzed: 03/15/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/14/23 Analyzed: 03/15/23**									
Total Dissolved Solids	46.0	5.0	mg/L	50.00		92.0	80-120			
Duplicate **Source: 2303153-01**	**Prepared: 03/14/23 Analyzed: 03/15/23**									
Total Dissolved Solids	4840	5.0	mg/L		4660			3.90	5	

Notes and Definitions

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

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 3-8-23 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2303104

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

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#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

OBSERVED TEMP 1.6°C

CORRECTED TEMP: 1.8°C

THERMO ID: 60

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	3-8-23	0835	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): John Barie

Date: 3-8-23 Time: 0835

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 3-8-23 1200

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

POSITIVE
LAB SERVICE

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

March 17, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2303153-01) Sampled: 03/13/23 08:10 Received: 03/13/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4660**		1	mg/L	5.0	- SM 2540C	03/14/23	03/15/23	vc	BC31609

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC31609 - -										
Blank	**Prepared: 03/14/23 Analyzed: 03/15/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/14/23 Analyzed: 03/15/23**									
Total Dissolved Solids	46.0	5.0	mg/L	50.00		92.0	80-120			
Duplicate **Source: 2303153-01**	**Prepared: 03/14/23 Analyzed: 03/15/23**									
Total Dissolved Solids	4840	5.0	mg/L		4660			3.90	5	

Notes and Definitions

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

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 3-13-23 PAGE: 1 OF 1

FILE NO.: LAB NO.: 1307524

CLIENT NAME: CITY OF VERNON | PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY | P.O.NO. | AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | OBSERVED TEMP 0.8°C

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 1.0°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 60

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#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	3/13/23	0810	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
MT	JB JohnBarie	3/13/23	0810
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____Date:_____

SPECIAL INSTRUCTION:

Arrived at the lab 3-13-23 0850

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

POSITIVE
LAB SERVICE

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

April 06, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

D Sandy

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 04/06/23
Submitted: 03/21/23
PLS Report No.: 2303253

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2303253-01) Sampled: 03/21/23 08:20 Received: 03/21/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4400**		1	mg/L	5.0	- SM 2540C	03/27/23	03/28/23	vc	BC32902

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC32902 - -										
Blank	**Prepared: 03/27/23 Analyzed: 03/28/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/27/23 Analyzed: 03/28/23**									
Total Dissolved Solids	55.0	5.0	mg/L	50.00		110	80-120			
Duplicate Source: 2303253-01	**Prepared: 03/27/23 Analyzed: 03/28/23**									
Total Dissolved Solids	4600	5.0	mg/L		4400			4.33	5	
Duplicate Source: 2303283-07	**Prepared: 03/27/23 Analyzed: 03/28/23**									
Total Dissolved Solids	55.0	5.0	mg/L		54.0			1.83	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 3-21-23 PAGE: 1 OF ____

FILE NO.: ____ LAB NO.: 2303253

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

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#: --- --- --- --- --- --- --- --- --- ---

OBSERVED TEMP 0.9°C

CORRECTED TEMP: 1.1°C

THERMO ID: 61

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	3-21-23	0820	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA Received by (Signature & Name): Jon Barie Date: 3-21-23 Time: 0820

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 3-21-23 1115

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

POSITIVE
LAB SERVICE

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

March 31, 2023

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

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

Dear Matt Richards,

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

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

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

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 03/31/23
Submitted: 03/27/23
PLS Report No.: 2303329

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2303329-01) Sampled: 03/27/23 07:35 Received: 03/27/23

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3200**		1	mg/L	5.0	- SM 2540C	03/28/23	03/29/23	vc	BC33126

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC33126 - -										
Blank	**Prepared: 03/28/23 Analyzed: 03/29/23**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/28/23 Analyzed: 03/29/23**									
Total Dissolved Solids	46.0	5.0	mg/L	50.00		92.0	80-120			
Duplicate Source: 2303329-01	**Prepared: 03/28/23 Analyzed: 03/29/23**									
Total Dissolved Solids	3350	5.0	mg/L		3200			4.52	5	
Duplicate Source: 2303293-07	**Prepared: 03/28/23 Analyzed: 03/29/23**									
Total Dissolved Solids	2340	5.0	mg/L		2240			4.59	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 3.27.23 PAGE: 1 OF 1

FILE NO.: LAB NO.: 1303329

CLIENT NAME: CITY OF VERNON | PROJECT NAME/NO.: MALBURG GENERATING STATION WEEKLY | P.O.NO.: | AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | OBSERVED TEMP: 0.9°C

PROJECT MANAGER: MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 1.1°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 66

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#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	3.27.23	0735	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
NA	John Barie	3.27.23	0735
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 3.27.23 1200

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

Appendix C
Operation Logs

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

CTG 1

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

CTG 2

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

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

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

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

Appendix D
Diesel Fuel Oil Purchase Records

Invoice

INVOICE: 2100721-IN

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
SALEPERSON: Todd Cripps
714-938-5714

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

ACCT NO (Bill-to): 01-0001045

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
CH277210983D400	CH MEROPA 150 277210983 $3.39 PER TC	1 **Whse:** 101	1.00	400 LB DR	400.00	3.39000	1,356.00
422D055	DYED CARB ULS DIESEL NON TAXABLE USE ONLY - PENALTY FOR TAXABLE USE 15 PPM OR LESS SULFUR - MAY CONTAIN UP TO 5% BIODIESEL MTO/ $4.35 PER TC	2 **Whse:** 101	2.00	55 G DR	110.00	4.35000	478.50
Federal Lust						0.00100	0.11
Federal Oil Spill						0.00214	0.24
CA - AB 32 - DSL						0.00828	0.91
						4.36142	479.76
CH273204981D055	CH REGAL R&O ISO 150 273204981 FORMERLY - 273213981 1 BACKORDERED ON 2104708	0 **Whse:** 101	0.00	55 G DR	0.00	0.00000	0.00
/FUELCHLUBE	FUEL SURCHARGE LUBES						9.92
/RCFLUBE	REG COMPLIANCE FEE LUBES						12.95
DRUMDEPOSITC001	DRUM DEPOSIT FEE	3 **Whse:** 101	3.00	MISC CHRG	3.00	25.00000	75.00
MSRTNDRMC001	RETURN DRUM	0 **Whse:** 101	-2.00	MISC CHRG	2.00-	15.00000	30.00-

Save time, pay online! View invoices, make payments and more.
Sign up for the Customer Portal today. Email: creditinquiries@scfuels.com or Call 888-SCFuels
Ext. 6017 or login to Customer Portal: **https://customerportal.scfuels.com**
24-hour Emergency Response Call CHEMTREC: 800-424-9300

Net Invoice:	1,903.63
Less Discount:	0.00
Freight:	0.00
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.

Appendix E
Excess Emission Reports

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

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

Generated: 04/07/2023 08:54 **Location:** Vernon, California

Tag Name: U1_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,383.47 Hours

Non-Operating Time: 776.53 Hours Report Time: 2,160.00 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: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/07/2023 08:54 **Location:** Vernon, California

Tag Name: U1_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,383.47 Hours

Non-Operating Time: 776.53 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

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

Generated: 04/07/2023 08:55 **Location:** Vernon, California

Tag Name: U1_NOxRECLM_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,383.47 Hours

Non-Operating Time: 776.53 Hours Report Time: 2,160.00 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 NOx Startup/Shutdown

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

Generated: 04/07/2023 08:55 **Location:** Vernon, California

Tag Name: U1_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,383.47 Hours

Non-Operating Time: 776.53 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 08:55 **Location:** Vernon, California
Tag Name: U1_VOC_LbPerHr_1M
SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,383.47 Hours
Non-Operating Time: 776.53 Hours Report Time: 2,160.00 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 VOC Startup/Shutdown

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

Generated: 04/07/2023 08:55 **Location:** Vernon, California

Tag Name: U1_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,383.47 Hours

Non-Operating Time: 776.53 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 1 - CO ppmvdc 1-hour during Normal Operation

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 08:56 **Location:** Vernon, California

Tag Name: U1_CONormal_Ppmvdc_1H
Total Operating Time: 1,388.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 772.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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

Excess Emission Report

Unit 1 - NOx ppmvdc 1-hour during Normal Operation

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 08:57 **Location:** Vernon, California

Tag Name: U1_NOxNormal_Ppmvdc_1H
Total Operating Time: 1,388.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 772.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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

Excess Emission Report

Unit 1 - VOC ppmvdc 1-hour during Normal Operation

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 08:57 **Location:** Vernon, California

Tag Name: U1_VOCNormal_Ppmvdc_1H
Total Operating Time: 1,388.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 772.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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

Quad K Excess Emissions Report

U1 NOX 4-Hour Events

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

Generated: 04/07/2023 08:58 **Location:** Vernon, California

Tag Name: U1_NOx4H_Ppmvdc_1H

Total Operating Time: 1,388.00 Hour(s) **No Exclusions Allowed**

Non-Operating Time: 772.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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

Excess Emission Report

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

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 09:04 **Location:** Vernon, California

Tag Name: U1_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 1,388.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 772.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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

Startup/Shutdown Event Report

U2 CO Startup/Shutdown Events

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

Generated: 04/07/2023 08:59 **Location:** Vernon, California

Tag Name: U2_CO_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 960.87 Hours

Non-Operating Time: 1,199.13 Hours Report Time: 2,160.00 Hours

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 Event Report

U2 CO Startup/Shutdown Events

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

Generated: 04/07/2023 08:59 **Location:** Vernon, California

Tag Name: U2_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 960.87 Hours

Non-Operating Time: 1,199.13 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

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

Generated: 04/07/2023 08:59 **Location:** Vernon, California

Tag Name: U2_NOxRECLM_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 960.87 Hours

Non-Operating Time: 1,199.13 Hours Report Time: 2,160.00 Hours

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

U2 NOx Startup/Shutdown

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

Generated: 04/07/2023 08:59 **Location:** Vernon, California

Tag Name: U2_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 960.87 Hours

Non-Operating Time: 1,199.13 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 09:00 **Location:** Vernon, California
Tag Name: U2_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 960.87 Hours
Non-Operating Time: 1,199.13 Hours Report Time: 2,160.00 Hours

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 Event Report

U2 VOC Startup/Shutdown Events

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

Generated: 04/07/2023 09:00 **Location:** Vernon, California

Tag Name: U2_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 960.87 Hours

Non-Operating Time: 1,199.13 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 2 - CO ppmvdc 1-hour during Normal Operation

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 09:01 **Location:** Vernon, California

Tag Name: U2_CONormal_Ppmvdc_1H
Total Operating Time: 965.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,195.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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

Excess Emission Report

Unit 2 - NOx ppmvdc 1-hour during Normal Operation

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 09:01 **Location:** Vernon, California

Tag Name: U2_NOxNormal_Ppmvdc_1H
Total Operating Time: 965.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,195.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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

Excess Emission Report

Unit 2 - VOC ppmvdc 1-hour during Normal Operation

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 09:02 **Location:** Vernon, California

Tag Name: U2_VOCNormal_Ppmvdc_1H
Total Operating Time: 965.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,195.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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

Quad K Excess Emissions Report

U2 NOX 4-Hour Events

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

Generated: 04/07/2023 09:02 **Location:** Vernon, California

Tag Name: U2_NOx4H_Ppmvdc_1H

Total Operating Time: 965.00 Hour(s) **No Exclusions Allowed**

Non-Operating Time: 1,195.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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

Excess Emission Report

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

From: 01/01/2023 00:00 **To:** 03/31/2023 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/07/2023 09:03 **Location:** Vernon, California

Tag Name: U2_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 965.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,195.00 Hour(s) Report Time: 2,160.00 Hour(s)

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

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