DOCKETED	
Docket Number:	01-AFC-25C
Project Title:	Malburg Generating Station-Compliance
TN #:	259770
Document Title:	Malburg Generating Station Quarterly Compliance Report Q3 2024
Description:	N/A
Filer:	Elyse Engel
Organization:	Jacobs Engineering Group Inc.
Submitter Role:	Applicant
Submission Date:	10/30/2024 8:54:00 AM
Docketed Date:	10/30/2024

City of VERNON CALIFORNIA

October 30, 2024

NOTICE OF INTENT TO FILE
2024 Q3 Compliance Report for the
Malburg Generating Station (01-AFC-25C)

Dear Dr. Ali:

Attached please find the Quarterly Compliance Report for the Malburg Generating Station (01-AFC-25C), covering the operational period of July 1, 2024, through September 30, 2024. 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.

Thank you,

Todd Dusenberry
General Manager of Vernon Public Utilities

Copies: Lisa Umeda
Matt Richards
Richard Corbi
Document Control

Enclosure: MGS 2024 Q3 Compliance Report

Jacobs

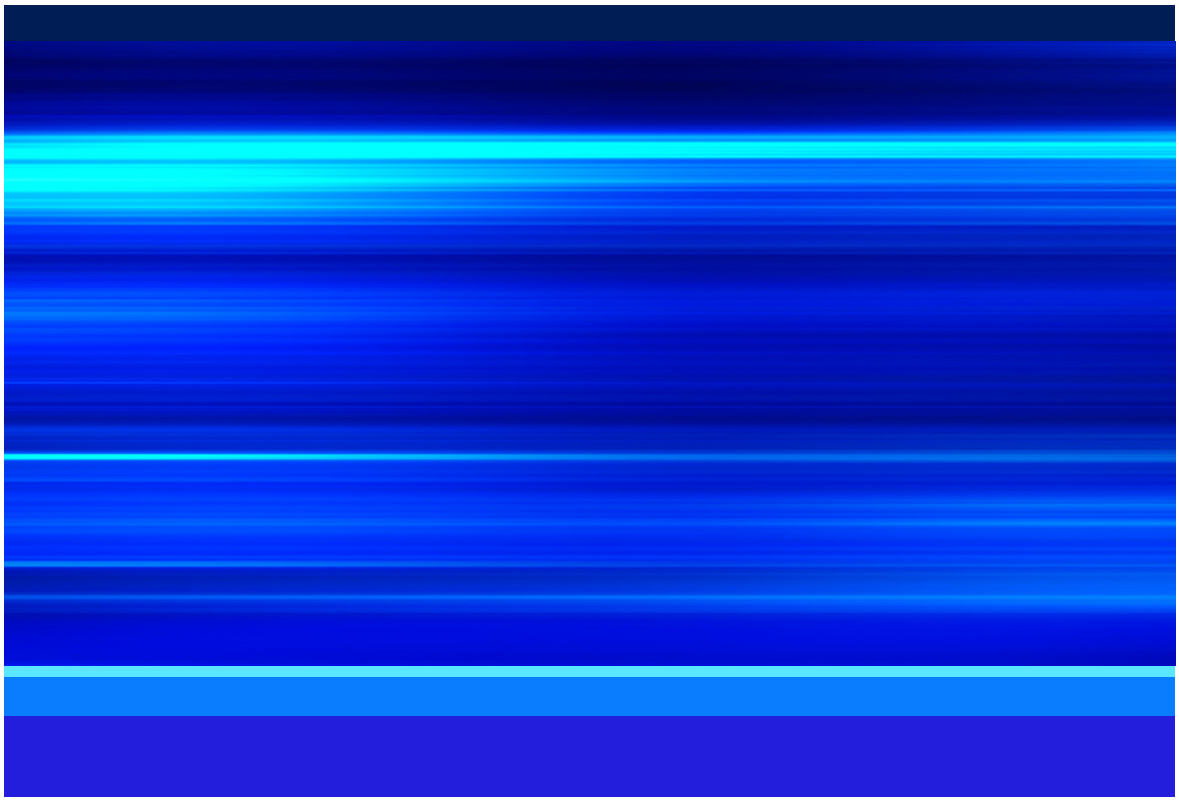
Malburg Generating Station Quarterly Compliance Report (Third Quarter 2024)

Submitted to
California Energy Commission

Submitted by
City of Vernon, Public Utilities Department

Document no: 241025155417_3c96b3ad

October 30, 2024



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Acronyms and Abbreviations

CEC	California Energy Commission
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
lb/hr	pounds per hour
MGS	Malburg Generating Station
NH_3	ammonia
NOx	nitrogen oxides
PM_{10}	particulate matter with aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with aerodynamic diameter less than or equal to 2.5 microns
ppm	parts per million
ppmv	parts per million by volume
ppmw	parts per million by weight
QCR	Quarterly Compliance Report
SCAQMD	South Coast Air Quality Management District
SOx	sulfur oxides
STG	steam turbine generator
TDS	total dissolved solids
VOC	volatile organic compound

1. Introduction

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

1.1 Project Location and Description

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

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

1.2 Organization of the Quarterly Compliance Report

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

2. Required Quarterly Compliance Report Documentation

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

Table 2-1. Required Quarterly Compliance Report Documentation

Condition of Certification	Response
AQ-C6	The weekly total dissolved solids (TDS) results for the third quarter of 2024 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 third quarter of 2024 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 third quarter of 2024 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 third quarter of 2024, including the duration and date of occurrence, are provided in Appendix C, Table 1.

Condition of Certification	Response
AQ-C11	All ammonia (NH3), nitrogen oxides (NOx), sulfur oxides (SOx), carbon monoxide (CO), PM10, and volatile organic compound (VOC) emissions from MGS operation during the third quarter of 2024 are provided in Appendix A, Table 1.
AQ-2	Low sulfur diesel fuel was last purchased on March 20, 2024. The fuel purchase record is provided in Appendix D and demonstrates that the fuel does not contain sulfur compounds in excess of 15 parts per million by weight (ppmw).
AQ-3	See the response for COC AQ-2.
AQ-5	Monthly emissions of CO, PM_{10}, particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM2.5), VOC, and SOx from CTG and duct burner operation during the third quarter of 2024 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 either CTG 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 either CTG 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 either CTG 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 NH3 compliance source testing for CTG 1 and CTG 2 was performed on March 13 and 14, 2024. The test report with results was submitted to the CEC on May 1, 2024, and indicated compliance with the emission limit (0.9 ppm). NH3 emissions are also calculated via the CEMS on an hourly basis and confirmed to comply with the NH3 concentration limit of 5 ppm.

Condition of Certification	Response
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	Year-to-date hours of operation for the diesel-fired emergency firewater pump are provided in Appendix A, Table 10. As shown, the year-to-date 2024 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 3 2024**

Table 1. Quarterly Emissions - July 1, 2024 through September 30, 2024

Source	Quarterly Emissions (lb/quarter)					
	NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
CTG 1 & Duct Burner	6,959	1,524	968	175	3,774	5,793
CTG 2 & Duct Burner	5,237	1,374	802	145.1	3,130	4,657
Cooling Tower	--	--	--	--	115	--
Diesel Firewater Pump	33.6	1.0	0.2	0.0	0.2	0.1
Total	**12,230**	**2,899**	**1,769**	**321**	**7,019**	**10,450**

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 2

Reporting Period: **Quarter 3 2024**

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

Sampling Period		
Start Date	End Date	TDS (ppm)
6/30/2024	7/6/2024	4,470
7/7/2024	7/13/2024	3,860
7/14/2024	7/20/2024	3,380
7/21/2024	7/27/2024	3,480
7/28/2024	8/3/2024	3,200
8/4/2024	8/10/2024	3,980
8/11/2024	8/17/2024	4,000
8/18/2024	8/24/2024	3,980
8/25/2024	8/31/2024	4,440
9/1/2024	9/7/2024	4,060
9/8/2024	9/14/2024	3,860
9/15/2024	9/21/2024	4,140
9/22/2024	9/28/2024	3,360
9/29/2024	10/5/2024	4,120

[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: **July 2024**

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		TDS (ppm)
	Start Date	End Date	
7/2/2024	6/30/2024	7/6/2024	4,470
7/9/2024	7/7/2024	7/13/2024	3,860
7/17/2024	7/14/2024	7/20/2024	3,380
7/22/2024	7/21/2024	7/27/2024	3,480
7/29/2024	7/28/2024	8/3/2024	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]
7/1/2024	38,880,000	4,470	1.45	No
7/2/2024	38,880,000	4,470	1.45	No
7/3/2024	38,880,000	4,470	1.45	No
7/4/2024	38,880,000	4,470	1.45	No
7/5/2024	38,880,000	4,470	1.45	No
7/6/2024	38,880,000	4,470	1.45	No
7/7/2024	38,880,000	3,860	1.25	No
7/8/2024	38,880,000	3,860	1.25	No
7/9/2024	38,880,000	3,860	1.25	No
7/10/2024	38,880,000	3,860	1.25	No
7/11/2024	38,880,000	3,860	1.25	No
7/12/2024	38,880,000	3,860	1.25	No
7/13/2024	38,880,000	3,860	1.25	No
7/14/2024	38,880,000	3,380	1.10	No
7/15/2024	38,880,000	3,380	1.10	No
7/16/2024	38,880,000	3,380	1.10	No
7/17/2024	38,880,000	3,380	1.10	No
7/18/2024	38,880,000	3,380	1.10	No
7/19/2024	38,880,000	3,380	1.10	No
7/20/2024	38,880,000	3,380	1.10	No
7/21/2024	38,880,000	3,480	1.13	No
7/22/2024	38,880,000	3,480	1.13	No
7/23/2024	38,880,000	3,480	1.13	No
7/24/2024	38,880,000	3,480	1.13	No
7/25/2024	38,880,000	3,480	1.13	No
7/26/2024	38,880,000	3,480	1.13	No
7/27/2024	38,880,000	3,480	1.13	No
7/28/2024	38,880,000	3,200	1.04	No
7/29/2024	38,880,000	3,200	1.04	No
7/30/2024	38,880,000	3,200	1.04	No
7/31/2024	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, Table 4

Reporting Period: **August 2024**

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 [1]	Period		TDS (ppm)
	Start Date	End Date	
7/29/2024	7/28/2024	8/3/2024	3,200
8/6/2024	8/4/2024	8/10/2024	3,980
8/13/2024	8/11/2024	8/17/2024	4,000
8/20/2024	8/18/2024	8/24/2024	3,980
8/26/2024	8/25/2024	8/31/2024	4,440

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]
8/1/2024	38,880,000	3,200	1.04	No
8/2/2024	38,880,000	3,200	1.04	No
8/3/2024	38,880,000	3,200	1.04	No
8/4/2024	38,880,000	3,980	1.29	No
8/5/2024	38,880,000	3,980	1.29	No
8/6/2024	38,880,000	3,980	1.29	No
8/7/2024	38,880,000	3,980	1.29	No
8/8/2024	38,880,000	3,980	1.29	No
8/9/2024	38,880,000	3,980	1.29	No
8/10/2024	38,880,000	3,980	1.29	No
8/11/2024	38,880,000	4,000	1.30	No
8/12/2024	38,880,000	4,000	1.30	No
8/13/2024	38,880,000	4,000	1.30	No
8/14/2024	38,880,000	4,000	1.30	No
8/15/2024	38,880,000	4,000	1.30	No
8/16/2024	38,880,000	4,000	1.30	No
8/17/2024	38,880,000	4,000	1.30	No
8/18/2024	38,880,000	3,980	1.29	No
8/19/2024	38,880,000	3,980	1.29	No
8/20/2024	38,880,000	3,980	1.29	No
8/21/2024	38,880,000	3,980	1.29	No
8/22/2024	38,880,000	3,980	1.29	No
8/23/2024	38,880,000	3,980	1.29	No
8/24/2024	38,880,000	3,980	1.29	No
8/25/2024	38,880,000	4,440	1.44	No
8/26/2024	38,880,000	4,440	1.44	No
8/27/2024	38,880,000	4,440	1.44	No
8/28/2024	38,880,000	4,440	1.44	No
8/29/2024	38,880,000	4,440	1.44	No
8/30/2024	38,880,000	4,440	1.44	No
8/31/2024	38,880,000	4,440	1.44	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: **September 2024**

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		TDS (ppm)
	Start Date	End Date	
9/4/2024	9/1/2024	9/7/2024	4,060
9/9/2024	9/8/2024	9/14/2024	3,860
9/17/2024	9/15/2024	9/21/2024	4,140
9/23/2024	9/22/2024	9/28/2024	3,360
9/30/2024	9/29/2024	10/5/2024	4,120

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

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]
9/1/2024	38,880,000	4,060	1.32	No
9/2/2024	38,880,000	4,060	1.32	No
9/3/2024	38,880,000	4,060	1.32	No
9/4/2024	38,880,000	4,060	1.32	No
9/5/2024	38,880,000	4,060	1.32	No
9/6/2024	38,880,000	4,060	1.32	No
9/7/2024	38,880,000	4,060	1.32	No
9/8/2024	38,880,000	3,860	1.25	No
9/9/2024	38,880,000	3,860	1.25	No
9/10/2024	38,880,000	3,860	1.25	No
9/11/2024	38,880,000	3,860	1.25	No
9/12/2024	38,880,000	3,860	1.25	No
9/13/2024	38,880,000	3,860	1.25	No
9/14/2024	38,880,000	3,860	1.25	No
9/15/2024	38,880,000	4,140	1.34	No
9/16/2024	38,880,000	4,140	1.34	No
9/17/2024	38,880,000	4,140	1.34	No
9/18/2024	38,880,000	4,140	1.34	No
9/19/2024	38,880,000	4,140	1.34	No
9/20/2024	38,880,000	4,140	1.34	No
9/21/2024	38,880,000	4,140	1.34	No
9/22/2024	38,880,000	3,360	1.09	No
9/23/2024	38,880,000	3,360	1.09	No
9/24/2024	38,880,000	3,360	1.09	No
9/25/2024	38,880,000	3,360	1.09	No
9/26/2024	38,880,000	3,360	1.09	No
9/27/2024	38,880,000	3,360	1.09	No
9/28/2024	38,880,000	3,360	1.09	No
9/29/2024	38,880,000	4,120	1.33	No
9/30/2024	38,880,000	4,120	1.33	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 3 2024

Table 6. Monthly Turbine-Duct Burner Fuel Flow

Source	July		August		September	
	Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]
CTG 1	202		206		210.2	
CTG 1 Duct Burner	2.43		3.05		3.87	
Total CTG 1 & Duct Burner	**204**	**No**	**209**	**No**	**214.0**	**No**
CTG 2	175.69		222.15		96	
CTG 2 Duct Burner	2.37		3.14		3.67	
Total CTG 2 & Duct Burner	**178.06**	**No**	**225.29**	**No**	**99**	**No**

[1] CTG and Duct Burner 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 - July 2024

Source	Monthly Emissions (lb/month) [1]					
	NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	3,921	489	315	57	1,227	1,878
CTG 2 & Duct Burner	2,888	483	291	53	1,136	1,641
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 - August 2024

Source	Monthly Emissions (lb/month) [1]					
	NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,500	496	323	59	1,259	1,932
CTG 2 & Duct Burner	1,583	556	358	65	1,395	2,078
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 - September 2024

Source	Monthly Emissions (lb/month) [1]					
	NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,538	539	330	60	1,287	1,982
CTG 2 & Duct Burner	766	334	153	28	598	937
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 3 2024**

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	0.80	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 (gal/month) [2]	Monthly Emissions (lb/month)					
	Maintenance	Testing	Emergency		NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
January	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02
February	0.0	1.5	0.0	16.8	7.9	0.23	0.06	0.00	0.05	0.01
March	0.0	2.6	0.0	29.1	13.7	0.40	0.10	0.01	0.09	0.02
April	0.0	2.6	0.0	29.1	13.7	0.40	0.10	0.01	0.09	0.02
May	0.0	1.7	0.0	19.0	8.9	0.26	0.06	0.00	0.06	0.02
June	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02
July	0.0	2.4	0.0	26.9	12.6	0.37	0.09	0.01	0.08	0.02
August	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02
September	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02
Q3 Total	**0.0**	**6.4**	**0.0**	**71.7**	**33.6**	**1.0**	**0.24**	**0.02**	**0.22**	**0.06**
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

July 10, 2024

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

Report No.: 2407013
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 July 02, 2024.

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.

John Schmidt
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: 07/10/24
Submitted: 07/02/24
PLS Report No.: 2407013

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2407013-01) Sampled: 07/02/24 08:00 Received: 07/02/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4470**		1	mg/L	5.0	- SM 2540C	07/08/24	07/09/24	jks	BG40913

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG40913 - -										
Blank	**Prepared: 07/08/24 Analyzed: 07/09/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 07/08/24 Analyzed: 07/09/24**									
Total Dissolved Solids	49.0	5.0	mg/L	50.00		98.0	80-120			
Duplicate **Source: 2407029-01**	**Prepared: 07/08/24 Analyzed: 07/09/24**									
Total Dissolved Solids	4050	5.0	mg/L		3860			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

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: 7-2-24 PAGE: 1 OF ____
FILE NO.: ____ LAB NO.: 2407013

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: 1.9°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
	7.2.24	0800	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
MA	John Barie	7-2-24	0800
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:

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

Arrived at the lab 7.2.24 1110

POSITIVE
LAB SERVICE

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

July 10, 2024

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

Report No.: 2407029
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 July 08, 2024.

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: 07/10/24
Submitted: 07/08/24
PLS Report No.: 2407029

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2407029-01) Sampled: 07/08/24 07:20 Received: 07/08/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3860**		1	mg/L	5.0	- SM 2540C	07/08/24	07/09/24	jks	BG40913

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG40913 - -										
Blank	**Prepared: 07/08/24 Analyzed: 07/09/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 07/08/24 Analyzed: 07/09/24**									
Total Dissolved Solids	49.0	5.0	mg/L	50.00		98.0	80-120			
Duplicate **Source: 2407029-01**	**Prepared: 07/08/24 Analyzed: 07/09/24**									
Total Dissolved Solids	4050	5.0	mg/L		3860			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: 7.8.24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2407029

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 0.0°C

CORRECTED TEMP: 1.0°C

THERMO ID: 66

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		ANALYSES REQUESTED: TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE		
	7.8.24	0720	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA Received by (Signature & Name): Jon Barie Date: 7.8.24 Time: 0720

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:

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

Arrived at the lab 7.8.24 0800

POSITIVE
LAB SERVICE

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

July 24, 2024

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

Report No.: 2407097
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 July 17, 2024.

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: 07/24/24
Submitted: 07/17/24
PLS Report No.: 2407097

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2407097-01) Sampled: 07/17/24 08:00 Received: 07/17/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3380**		1	mg/L	5.0	- SM 2540C	07/18/24	07/19/24	ss	BG41905

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG41905 - -										
Blank	**Prepared: 07/18/24 Analyzed: 07/19/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 07/18/24 Analyzed: 07/19/24**									
Total Dissolved Solids	53.0	5.0	mg/L	50.00		106	80-120			
Duplicate **Source: 2407097-01**	**Prepared: 07/18/24 Analyzed: 07/19/24**									
Total Dissolved Solids	3270	5.0	mg/L		3380			3.22	5	

Notes and Definitions

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

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

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: 7-17-24 PAGE: 1 OF

FILE NO.: LAB NO.: 2407097

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

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

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 1.3°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#: --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	7-17-24	0820	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA Received by (Signature & Name): Date: 7/17/24 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:

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

Arrived at the lab 7-17-24 0940

POSITIVE
LAB SERVICE

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

July 29, 2024

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

Report No.: 2407120
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 July 22, 2024.

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: 07/29/24
Submitted: 07/22/24
PLS Report No.: 2407120

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2407120-01) Sampled: 07/22/24 08:00 Received: 07/22/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3480**		1	mg/L	5.0	- SM 2540C	07/25/24	07/26/24	ss	BG42613

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG42613 - -										
Blank	**Prepared: 07/25/24 Analyzed: 07/26/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 07/25/24 Analyzed: 07/26/24**									
Total Dissolved Solids	57.0	5.0	mg/L	50.00		114	80-120			
Duplicate **Source: 2407142-05**	**Prepared: 07/25/24 Analyzed: 07/26/24**									
Total Dissolved Solids	3970	5.0	mg/L		4060			2.33	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: 7.22.24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2407125

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 0.1°C

CORRECTED TEMP: 1.1°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									
	7.22.24	0825	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): John Barie

Date: 7.22.24

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:

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

Arrived at the lab 7.22.24 0825

POSITIVE
LAB SERVICE

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

August 06, 2024

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

Report No.: 2407189
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 July 29, 2024.

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: 08/06/24
Submitted: 07/29/24
PLS Report No.: 2407189

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2407189-01) Sampled: 07/29/24 08:15 Received: 07/29/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3200**	B	1	mg/L	5.0	- SM 2540C	08/01/24	08/02/24	mv	BH40603

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH40603 - -										
Blank	**Prepared: 08/01/24 Analyzed: 08/02/24**									
Total Dissolved Solids	16.0	5.0	mg/L							B
LCS	**Prepared: 08/01/24 Analyzed: 08/02/24**									
Total Dissolved Solids	55.0	5.0	mg/L	50.00		110	80-120			B
Duplicate **Source: 2407189-01**	**Prepared: 08/01/24 Analyzed: 08/02/24**									
Total Dissolved Solids	3160	5.0	mg/L		3200			1.41	5	B

Notes and Definitions

B	Analyte present in the blank (CLP B-flag).
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: 7-29-24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2407189

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: 2.0°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 1.0°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
	7-29-24	0815	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA Received by (Signature & Name): Jm Barie Date: 7-29-24 Time: 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:

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

Arrived at the lab 7-29-24 0940

POSITIVE
LAB SERVICE

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

August 12, 2024

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

Report No.: 2408021
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 August 06, 2024.

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: 08/12/24
Submitted: 08/06/24
PLS Report No.: 2408021

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2408021-01) Sampled: 08/06/24 08:15 Received: 08/06/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3980**		1	mg/L	5.0	- SM 2540C	08/08/24	08/09/24	ss	BH41208

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH41208 - -										
Blank	**Prepared: 08/08/24 Analyzed: 08/09/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 08/08/24 Analyzed: 08/09/24**									
Total Dissolved Solids	56.0	5.0	mg/L	50.00		112	80-120			
Duplicate **Source: 2408021-01**	**Prepared: 08/08/24 Analyzed: 08/09/24**									
Total Dissolved Solids	4020	5.0	mg/L		3980			0.874	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)

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: 8-6-24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2408021

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 ANALYSES REQUESTED OBSERVED TEMP 0.7°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 1.7°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#: --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	8-6-24	0815	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA Received by (Signature & Name): For John Barie Date: 8-6-24 Time: 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:

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

Arrived at the lab 8-6-24 1020

POSITIVE
LAB SERVICE

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

August 16, 2024

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

Report No.: 2408079
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 August 13, 2024.

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: 08/16/24
Submitted: 08/13/24
PLS Report No.: 2408079

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2408079-01) Sampled: 08/13/24 08:05 Received: 08/13/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4000**		1	mg/L	5.0	- SM 2540C	08/15/24	08/16/24	ss	BH41617

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH41617 - -										
Blank	**Prepared: 08/15/24 Analyzed: 08/16/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 08/15/24 Analyzed: 08/16/24**									
Total Dissolved Solids	41.0	5.0	mg/L	50.00		82.0	80-120			
Duplicate **Source: 2408079-01**	**Prepared: 08/15/24 Analyzed: 08/16/24**									
Total Dissolved Solids	4030	5.0	mg/L		4000			0.955	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)

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: 8-13-24 PAGE: 1 OF ____

FILE NO.: ____ LAB NO.: 2408079

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | ANALYSES REQUESTED | OBSERVED TEMP 0.2°C

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

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 61

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	8-13-24	0805	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): NA | Received by (Signature & Name): Tom Barie | Date: 8-13-24 | Time: 0805

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:

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

Arrived at the lab 8-13-24 1015

POSITIVE
LAB SERVICE

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

August 26, 2024

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

Report No.: 2408118
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 August 20, 2024.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. Analytes flagged ANC are not offered by ELAP for certification. Analytes flagged ANA are offered by ELAP; however, they are not PLS certified.

The laboratory report may not be reproduced, 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) are provided on the 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: 08/26/24
Submitted: 08/20/24
PLS Report No.: 2408118

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2408118-01) Sampled: 08/20/24 07:10 Received: 08/20/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3980**		1	mg/L	5.0	- SM 2540C	08/22/24	08/23/24	ss	BH42321

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH42321 - -										
Blank	**Prepared: 08/22/24 Analyzed: 08/23/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 08/22/24 Analyzed: 08/23/24**									
Total Dissolved Solids	54.0	5.0	mg/L	50.00		108	80-120			
Duplicate **Source: 2408118-01**	**Prepared: 08/22/24 Analyzed: 08/23/24**									
Total Dissolved Solids	3910	5.0	mg/L		3980			1.56	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

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: 8-20-24 PAGE: 1 OF ____

FILE NO.: ____ LAB NO.: 2408118

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

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

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 1.5°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 65

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	8-20-24	0710	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): NA | Received by (Signature & Name): JT Jonbarie | Date: 8-20-24 | Time: 0710

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:

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

Arrived at the lab 8-20-24 0725

POSITIVE
LAB SERVICE

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

September 03, 2024

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

Report No.: 2408163
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 August 26, 2024.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. Analytes flagged ANC are not offered by ELAP for certification. Analytes flagged ANA are offered by ELAP; however, they are not PLS certified.

The laboratory report may not be reproduced, 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) are provided on the 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: 09/03/24
Submitted: 08/26/24
PLS Report No.: 2408163

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2408163-01) Sampled: 08/26/24 09:30 Received: 08/26/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4440**		1	mg/L	5.0	- SM 2540C	08/29/24	08/30/24	ss	BH43014

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH43014 - -										
Blank	**Prepared: 08/29/24 Analyzed: 08/30/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 08/29/24 Analyzed: 08/30/24**									
Total Dissolved Solids	53.0	5.0	mg/L	50.00		106	80-120			
Duplicate **Source: 2408190-01**	**Prepared: 08/29/24 Analyzed: 08/30/24**									
Total Dissolved Solids	1170	5.0	mg/L		1150			1.44	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

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: 8.26.24 PAGE: 1 OF ____

FILE NO.: ____ LAB NO.: 2408163

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | ANALYSES REQUESTED | OBSERVED TEMP 0.1°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#: --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	8.26.24	0930	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA | Received by (Signature & Name): John Barie | Date: 8.26.24 | Time: 0930

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:

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

Arrived at the lab 8.26.24 1000

POSITIVE
LAB SERVICE

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

September 09, 2024

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

Report No.: 2409010
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 04, 2024.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. Analytes flagged ANC are not offered by ELAP for certification. Analytes flagged ANA are offered by ELAP; however, they are not PLS certified.

The laboratory report may not be reproduced, 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) are provided on the 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: 09/09/24
Submitted: 09/04/24
PLS Report No.: 2409010

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2409010-01) Sampled: 09/04/24 08:35 Received: 09/04/24

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	09/05/24	09/06/24	ss	BI40614

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BI40614 - -										
Blank	**Prepared: 09/05/24 Analyzed: 09/06/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 09/05/24 Analyzed: 09/06/24**									
Total Dissolved Solids	51.0	5.0	mg/L	50.00		102	80-120			
Duplicate **Source: 2409010-01**	**Prepared: 09/05/24 Analyzed: 09/06/24**									
Total Dissolved Solids	4030	5.0	mg/L		4060			0.718	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, 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: 9.4.24 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2409010

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | ANALYSES REQUESTED | OBSERVED TEMP 0-7°c

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 1-7°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#: --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	9.4.24	0835	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA | Received by (Signature & Name): John Barie | Date: 9.4.24 | 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:

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

Arrived at the lab 9.4.24 0900

POSITIVE
LAB SERVICE

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

September 16, 2024

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

Report No.: 2409046
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 09, 2024.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. Analytes flagged ANC are not offered by ELAP for certification. Analytes flagged ANA are offered by ELAP; however, they are not PLS certified.

The laboratory report may not be reproduced, 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) are provided on the 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: 09/16/24
Submitted: 09/09/24
PLS Report No.: 2409046

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2409046-01) Sampled: 09/09/24 07:50 Received: 09/09/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3860**		1	mg/L	5.0	- SM 2540C	09/12/24	09/13/24	ss	BI41313

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BI41313 - -										
Blank	**Prepared: 09/12/24 Analyzed: 09/13/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 09/12/24 Analyzed: 09/13/24**									
Total Dissolved Solids	53.0	5.0	mg/L	50.00		106	80-120			
Duplicate **Source: 2409084-01**	**Prepared: 09/12/24 Analyzed: 09/13/24**									
Total Dissolved Solids	9850	5.0	mg/L		9940			0.825	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, 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: 9.9.24 PAGE: 1 OF ____

FILE NO.: ____ LAB NO.: 2409046

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | ANALYSES REQUESTED | OBSERVED TEMP 6.3°C

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	9.9.24	0750	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA | Received by (Signature & Name): John Barie | Date: 9.9.24 | Time: 0750

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:

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

Arrived at the lab 9.9.24 1040

POSITIVE
LAB SERVICE

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

September 23, 2024

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

Report No.: 2409106
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 17, 2024.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. Analytes flagged ANC are not offered by ELAP for certification. Analytes flagged ANA are offered by ELAP; however, they are not PLS certified.

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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: 09/23/24
Submitted: 09/17/24
PLS Report No.: 2409106

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2409106-01) Sampled: 09/17/24 09:15 Received: 09/17/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4140**		1	mg/L	5.0	- SM 2540C	09/19/24	09/20/24	ss	BI42016

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BI42016 - -										
Blank	**Prepared: 09/19/24 Analyzed: 09/20/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 09/19/24 Analyzed: 09/20/24**									
Total Dissolved Solids	50.0	5.0	mg/L	50.00		100	80-120			
Duplicate **Source: 2409106-01**	**Prepared: 09/19/24 Analyzed: 09/20/24**									
Total Dissolved Solids	4050	5.0	mg/L		4140			2.30	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, LACSD No. 10138

Rick Owen Parker

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: 9/17/24 PAGE: 1 OF

FILE NO.: LAB NO.: 2409106

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 ANALYSES REQUESTED OBSERVED TEMP 042c

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

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 61

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	9-17-24	0915	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA Received by (Signature & Name): Tom Barie Date: 9-17-24 Time: 0915

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:

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

Arrived at the lab 9-17-24 950

POSITIVE
LAB SERVICE

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

September 30, 2024

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

Report No.: 2409145
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 23, 2024.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. Analytes flagged ANC are not offered by ELAP for certification. Analytes flagged ANA are offered by ELAP; however, they are not PLS certified.

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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: 09/30/24
Submitted: 09/23/24
PLS Report No.: 2409145

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2409145-01) Sampled: 09/23/24 07:40 Received: 09/23/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3360**		1	mg/L	5.0	- SM 2540C	09/26/24	09/27/24	mv	BI43006

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BI43006 - -										
Blank	**Prepared: 09/26/24 Analyzed: 09/27/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared & Analyzed: 09/27/24**									
Total Dissolved Solids	52.0	5.0	mg/L	50.00		104	80-120			
Duplicate **Source: 2409148-01**	**Prepared: 09/26/24 Analyzed: 09/27/24**									
Total Dissolved Solids	340	5.0	mg/L		415			19.9	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, LACSD No. 10138

Rick Owen Parker

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: 9.23.24 PAGE: 1 OF

FILE NO.: LAB NO.: 2409145

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | ANALYSES REQUESTED | OBSERVED TEMP 0.0°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#: --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	9.23.24	0746	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): NA | Received by (Signature & Name): John Barie | Date: 9.23.24 | Time: 0746

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:

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

Arrived at the lab 9.23.24 0925

POSITIVE
LAB SERVICE

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

October 07, 2024

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

Report No.: 2409182
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 30, 2024.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. Analytes flagged ANC are not offered by ELAP for certification. Analytes flagged ANA are offered by ELAP; however, they are not PLS certified.

The laboratory report may not be reproduced, 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) are provided on the 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: 10/07/24
Submitted: 09/30/24
PLS Report No.: 2409182

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2409182-01) Sampled: 09/30/24 07:35 Received: 09/30/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4120**		1	mg/L	5.0	- SM 2540C	10/03/24	10/04/24	ss	BJ40407

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ40407 - -										
Blank	**Prepared: 10/03/24 Analyzed: 10/04/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 10/03/24 Analyzed: 10/04/24**									
Total Dissolved Solids	54.0	5.0	mg/L	50.00		108	80-120			
Duplicate **Source: 2409182-01**	**Prepared & Analyzed: 10/04/24**									
Total Dissolved Solids	4170	5.0	mg/L		4120			1.13	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, 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: 9.30.24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2409182

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | ANALYSES REQUESTED | OBSERVED TEMP 0.0°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#: --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	9.30.24	0735	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
MA	Jon Barie	9.30.24	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:

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

Arrived at the lab 9.30.24 0915

Appendix C
Operation Logs

Malburg Generating Station
Appendix C, Table 1
Combustion Turbine Generator (CTG) Startup and Shutdown Events
During Quarter 3, 2024

CTG 1

Date	Event Type [1]	Event Start	Event End	Duration (hrs:min)
7/5/2024	Stop	21:52	22:00	0:08
7/9/2024	Cold Start	15:29	17:15	1:46
8/9/2024	Stop	23:57	00:05	0:08
8/12/2024	Cold Start	15:28	16:51	1:23
9/6/2024	Hot Start	18:13	19:29	1:16
9/11/2024	Stop	23:51	00:00	0:09
9/13/2024	Warm Start	20:35	22:18	1:43

CTG 2

Date	Event Type [1]	Event Start	Event End	Duration (hrs:min)
7/5/2024	Cold Start	15:30	17:01	1:31
7/15/2024	Stop	23:52	23:59	0:07
7/17/2024	Warm Start	15:32	16:57	1:25
8/9/2024	Stop	23:57	00:05	0:08
8/9/2024 [2]	Warm Start	21:13	--	--
8/9/2024	Stop	22:09	22:13	0:04
8/9/2024	Hot Start	22:58	00:02	0:51
9/6/2024	Hot Start	16:59	17:42	0:43
9/17/2024	Hot Start	07:29	08:57	1:28
9/17/2024	Stop	16:58	17:05	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.

[2] CTG2 was dispatched to Startup by ADS; however, unable to complete startup due to high HP steam pressure before bypass unlocked.

Malburg Generating Station
Appendix C, Table 2
Diesel Firewater Pump Testing Times
During Quarter 3, 2024

Date	Time (hh:mm)	Start Hours	End Hours	Event Type	Hours of Operation
7/2/2024	7:57	394.1	394.6	Testing	0.5
7/9/2024 [1]	0:00	394.6	395.1	Testing	0.5
7/16/2024	2:08	395.1	395.5	Testing	0.4
7/23/2024	12:53	395.5	396.0	Testing	0.5
7/30/2024	12:23	396.0	396.5	Testing	0.5
8/6/2024	11:21	396.5	397.0	Testing	0.5
8/13/2024	9:19	397.0	397.5	Testing	0.5
8/20/2024	12:27	397.5	398.0	Testing	0.5
8/27/2024	10:12	398.0	398.5	Testing	0.5
9/3/2024	11:20	398.5	399.0	Testing	0.5
9/11/2024	2:18	399.0	399.5	Testing	0.5
9/17/2024	2:26	399.5	400.0	Testing	0.5
9/24/2024	10:36	400.0	400.5	Testing	0.5

[1] The time stamp of the engine start and end hours was not recorded on 7/9/2024 as the handheld's battery went dead and deleted the data before it could be uploaded. The time stamp was neither recorded nor commented by the operator during this run.

Appendix D
Diesel Fuel Oil Purchase Records

SALES QUOTE

ORDER NUMBER: 2607075

DATE:3/20/2024

TERMS: N30
SALES REP: Todd Cripps
PHONE: 714-938-5714

PO#: 00240083
SHIP DATE: 12/31/5999
ROM:
SHIP VIA:
WHSE: 101

SC Commercial, LLC, DBA SC Fuels
1800 West Katella Ave., Suite 400
P.O. Box 14237, Orange, CA 92863-4159

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

HM	ITEM CODE	ITEM DESCRIPTION	QTY ORDERED	QTY DEL	PACKAGE DESC	EXTENDED QTY	UNIT PRICE	EXT PRICE
	O:TODD/POC:ROB 323-583-8811 X257/HRS:8A-2P							
X	**NA1993, DIESEL FUEL, 3 PG III / CARGO TANK**							
	693D055	R99 DYED RENEWABLE CARB DIESEL MAXIMUM 15 PPM SULFUR, DIESEL FUEL #2. MEETS ALL CARB DIESEL SPECS. For use in State of California NON TAXABLE USE ONLY PENALTY FOR TAXABLE USE.	2.00		55 G DR	110.00 GALS	6.06	666.86
	Federal Lust					0.00100		0.11
						6.06340		666.97
	CH253090981D055	CH GST ADVANTAGE EP 32 250054981 REPLACES-GST 2300 ISO 32 253090981	1.00	____	55 G DR	55.00 GALS	25.24	1,388.20
	DRUMDEPOSITC001	DRUM DEPOSIT FEE	3.00	____	MISC CHRG	3.00 EACH	25.00	75.00
	/FUELCHLUBE	FUEL SURCHARGE LUBES		____				9.92
	/RCFLUBE	REG COMPLIANCE FEE LUBES		____				12.95

QUOTE ONLY
DO NOT DISPATCH

**Prices quoted are not firm and are subject to change based upon product availablity, quantity delivered and market fluctuations

Net Order:	2,153.04
Less Discount:	0.00
Freight:	0.00
Sales Tax:	212.99
Order Total:	2,366.03

created by:crippsto1

ver. SCF20240320

www.scfuels.com

FOR CHEMICAL EMERGENCY
Spill, Leak, Fire Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
(800) 424-9300

Appendix E
Excess Emission Report

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/10/2024 22:08 **Location:** Vernon, California

Tag Name: U1_CO_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,981.30 Hours

Non-Operating Time: 226.70 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/10/2024 22:08 **Location:** Vernon, California

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

Total Operating Time: 1,981.30 Hours

Non-Operating Time: 226.70 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/10/2024 22:09 **Location:** Vernon, California

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

Total Operating Time: 1,981.30 Hours

Non-Operating Time: 226.70 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/10/2024 22:09 **Location:** Vernon, California

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

Total Operating Time: 1,981.30 Hours

Non-Operating Time: 226.70 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/10/2024 22:10 **Location:** Vernon, California

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

Total Operating Time: 1,981.30 Hours

Non-Operating Time: 226.70 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/10/2024 22:10 **Location:** Vernon, California

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

Total Operating Time: 1,981.30 Hours

Non-Operating Time: 226.70 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 1 - CO ppmvdc 1-hour during Normal Operation

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:11 **Location:** Vernon, California

Tag Name: U1_CONormal_Ppmvdc_1H
Total Operating Time: 1,988.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 220.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,988.00 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: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:13 **Location:** Vernon, California

Tag Name: U1_NOxNormal_Ppmvdc_1H
Total Operating Time: 1,988.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 220.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,988.00 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: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:13 **Location:** Vernon, California

Tag Name: U1_VOCNormal_Ppmvdc_1H
Total Operating Time: 1,988.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 220.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,988.00 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: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:14 **Location:** Vernon, California

Tag Name: U1_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 1,988.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 220.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,988.00 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: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:17 **Location:** Vernon, California

Tag Name: U1_NOx4H_Ppmvdc_1H
Total Operating Time: 1,988.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 220.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,988.00 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: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/10/2024 22:18 **Location:** Vernon, California

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

Total Operating Time: 1,594.32 Hours

Non-Operating Time: 613.68 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

U2 CO Startup/Shutdown Events

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:18 **Location:** Vernon, California
Tag Name: U2_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission
Total Operating Time: 1,594.32 Hours
Non-Operating Time: 613.68 Hours Report Time: 2,208.00 Hours

Invalid Event Period		Reason	Action
Begin/End	Duration in Minute(s)	Code - Description	Code - Description
08/08/2024 22:36 08/08/2024 23:05	30		
08/09/2024 20:25 08/09/2024 21:13	49		
08/09/2024 21:11 09/06/2024 13:23	39853		
08/09/2024 22:11 08/09/2024 23:41	91		

Total CMS Downtime	**40023**	**Minute(s)**
Total Downtime as a percentage of operating time	**41.84**	**%**
Total Availability as a percentage of operating time	**58.16**	**%**

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/10/2024 22:24 **Location:** Vernon, California

Tag Name: U2_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,594.32 Hours

Non-Operating Time: 613.68 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/10/2024 22:24 **Location:** Vernon, California

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

Total Operating Time: 1,594.32 Hours

Non-Operating Time: 613.68 Hours Report Time: 2,208.00 Hours

Invalid Event Period		Reason	Action
Begin/End	Duration in Minute(s)	Code - Description	Code - Description
08/08/2024 22:36 08/08/2024 23:05	30		
08/09/2024 20:25 08/09/2024 21:13	49		
08/09/2024 21:11 09/06/2024 13:23	39853		
08/09/2024 22:11 08/09/2024 23:41	91		

Total CMS Downtime	**40023**	**Minute(s)**
Total Downtime as a percentage of operating time	**41.84**	**%**
Total Availability as a percentage of operating time	**58.16**	**%**

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:25 **Location:** Vernon, California
Tag Name: U2_VOC_LbPerHr_1M
SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,594.32 Hours
Non-Operating Time: 613.68 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:25 **Location:** Vernon, California
Tag Name: U2_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission
Total Operating Time: 1,594.32 Hours
Non-Operating Time: 613.68 Hours Report Time: 2,208.00 Hours

Invalid Event Period		Reason	Action
Begin/End	Duration in Minute(s)	Code - Description	Code - Description
08/08/2024 22:36 08/08/2024 23:05	30		
08/09/2024 20:25 08/09/2024 21:13	49		
08/09/2024 21:11 09/06/2024 13:23	39853		
08/09/2024 22:11 08/09/2024 23:41	91		

Total CMS Downtime	**40023**	**Minute(s)**
Total Downtime as a percentage of operating time	**41.84**	**%**
Total Availability as a percentage of operating time	**58.16**	**%**

Excess Emission Report

Unit 2 - CO ppmvdc 1-hour during Normal Operation

From: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:27 **Location:** Vernon, California

Tag Name: U2_CONormal_Ppmvdc_1H
Total Operating Time: 1,603.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 605.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,603.00 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: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:28 **Location:** Vernon, California

Tag Name: U2_NOxNormal_Ppmvdc_1H
Total Operating Time: 1,603.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 605.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,603.00 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: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:28 **Location:** Vernon, California

Tag Name: U2_VOCNormal_Ppmvdc_1H
Total Operating Time: 1,603.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 605.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,603.00 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: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:29 **Location:** Vernon, California

Tag Name: U2_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 1,603.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 605.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,603.00 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: 07/01/2024 00:00 **To:** 09/30/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/10/2024 22:27 **Location:** Vernon, California

Tag Name: U2_NOx4H_Ppmvdc_1H
Total Operating Time: 1,603.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 605.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,603.00 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 %**