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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 <u>MRichards@cityofvernon.org</u> 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

Vernon Public Utilities 4305 Santa Fe Avenue, Vernon, CA, 90058 323.583.8811 | CityofVernon.org

# 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
СО	carbon monoxide
сос	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
NH₃	ammonia
NOx	nitrogen oxides
PM <sub>10</sub>	particulate matter with aerodynamic diameter less than or equal to 10 microns
PM <sub>2.5</sub>	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.

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 <sub>10</sub> ) 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.

 Table 2-1. Required Quarterly Compliance Report Documentation

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.

Malburg Generating Station Quarterly Compliance Report (Third Quarter 2024)

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.

Malburg Generating Station Quarterly Compliance Report (Third Quarter 2024)

## Appendix A MGS Emission Calculations

Reporting Period: Quarter 3 2024

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

	Quarterly Emissions (lb/quarter)					
Source	NOx	C0	VOC	SOx	PM <sub>10</sub> /PM <sub>2.5</sub>	NH <sub>3</sub>
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	
<b>Diesel Firewater Pump</b>	33.6	1.0	0.2	0.0	0.2	0.1
Total	12,230	2,899	1,769	321	7,019	10,450

**Reporting Period:** 

#### Quarter 3 2024

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

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

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

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

	Period		
Sample Date	Start Date	End Date	TDS (ppm)
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<sub>10</sub> 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	12 500
Pump (gal/min) <sup>[1]</sup>	13,500
Number of Pumps	2
Total Circulation	27.000
Rate (gal/min)	27,000
Water Density	Q 33/
(lb/gal)	0.554
Drift Factor (%) <sup>[2]</sup>	0.0005
Correction Factor	0.2
(unitless) <sup>[3]</sup>	0.2

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

<sup>[2]</sup> Per COC AQ-C4.

<sup>[3]</sup> Source: SPX Cooling Technologies' Cooling Tower Drift Mass Distribution.

#### Cooling Tower Daily PM<sub>10</sub> Emissions

	Circulation Rate		PM <sub>10</sub> Emissions	Above 6.2 lb/day
Date	(gal/day) <sup>[1]</sup>	TDS (ppm)	(lb/day)	PM <sub>10</sub> Limit? <sup>[2]</sup>
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

<sup>[1]</sup> Maximum daily circulation rate conservatively used to estimate PM<sub>10</sub> 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.

 $^{\mbox{\scriptsize [2]}}$  Daily emissions limit established in COC AQ-C7.

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			
	Period		
Sample Date <sup>[1]</sup>	Start Date	End Date	TDS (ppm)
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<sub>10</sub> Emissions (lb/day) = Circulation Rate (gal/day) x Density of Water (lb/gal) x Total Dissolved Solids (ppm) / 1,000,000 x Drift Factor (%) / 100 x Correction Factor

#### Constants

Parameter	Value
Circulation Rate per Pump	12 000
(gal/min) <sup>[1]</sup>	15,500
Number of Pumps	2
Total Circulation Rate	27.000
(gal/min)	27,000
Water Density (lb/gal)	8.334
Drift Factor (%) <sup>[2]</sup>	0.0005
Correction Factor	0.2
(unitless) <sup>[3]</sup>	0.2

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

<sup>[2]</sup> Per COC AQ-C4.

<sup>[3]</sup> Source: SPX Cooling Technologies' Cooling Tower Drift Mass Distribution.

	Circulation Rate		PM <sub>10</sub> Emissions	Above 6.2 lb/day PM <sub>10</sub>
Date	(gal/day) <sup>[1]</sup>	TDS (ppm)	(lb/day)	Limit? <sup>[2]</sup>
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

#### Cooling Tower Daily PM<sub>10</sub> Emissions

<sup>[1]</sup> Maximum daily circulation rate conservatively used to estimate PM<sub>10</sub> 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.

 $^{\mbox{\scriptsize [2]}}$  Daily emissions limit established in COC AQ-C7.

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 OCR

	Period	Period						
Sample Date	Start Date	End Date	TDS (ppm)					
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					
9/30/2024	9/29/2024	10/5/2024	4,120					

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

PM<sub>10</sub> 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

Value
12 500
13,500
2
27.000
27,000
8.334
0.0005
0.2
0.2

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

<sup>[2]</sup> Per COC AQ-C4.

<sup>[3]</sup> Source: SPX Cooling Technologies' Cooling Tower Drift Mass

#### Cooling Tower Daily PM<sub>10</sub> Emissions

<u> </u>	Circulation Rate		PM <sub>10</sub> Emissions	Above 6.2 lb/day PM <sub>10</sub>
Date	(gal/day) <sup>[1]</sup>	TDS (ppm)	(lb/day)	Limit? <sup>[2]</sup>
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

<sup>[1]</sup> Maximum daily circulation rate conservatively used to estimate PM<sub>10</sub> 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.

<sup>[2]</sup> Daily emissions limit established in COC AQ-C7.

#### **Reporting Period:** Quarter 3 2024

#### Table 6. Monthly Turbine-Duct Burner Fuel Flow

	July		August		September		
		Above 405		Above 405		Above 405	
	Fuel Flow	MMscf/month	Fuel Flow	MMscf/month	Fuel Flow	MMscf/month	
Source	(MMscf/month) <sup>[1]</sup>	Limit? <sup>[2]</sup>	(MMscf/month) <sup>[1]</sup>	Limit? <sup>[2]</sup>	(MMscf/month) <sup>[1]</sup>	Limit? <sup>[2]</sup>	
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	

<sup>[1]</sup>CTG and Duct Burner fuel flow data obtained from 'U1/U2\_MonthlySummary\_MassEmissionsAndFuel' and 'All\_12MonthSummary\_GasUsage' RegPerfect Reports.

<sup>[2]</sup> Monthly fuel flow limit is per Condition of Certification (COC) AQ-27.

#### Table 7. Monthly Emissions - July 2024

	Monthly Emissions (lb/month) <sup>[1]</sup>									
Source	NOx <sup>[2]</sup>	СО	VOC	SOx	PM <sub>10</sub> /PM <sub>2.5</sub>	NH3 <sup>[3]</sup>				
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 <sup>[4]</sup>	N/A	7,633	3,236	227	4,876	N/A				
Exceeds Limit?	N/A	No	No	No	No	N/A				

<sup>[1]</sup> Unless otherwise noted, monthly emissions data obtained from 'U1/U2\_MonthlySummary\_MassEmissionsAndFuel' RegPerfect Report.

<sup>[2]</sup> Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1\_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report. <sup>[3]</sup> Monthly NH<sub>3</sub> 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.

<sup>[4]</sup> Monthly emission limits are per COC AQ-5.

#### Table 8. Monthly Emissions - August 2024

	Monthly Emissions (lb/month) <sup>[1]</sup>								
Source	NOx <sup>[2]</sup>	C0	VOC	SOx	PM <sub>10</sub> /PM <sub>2.5</sub>	NH <sub>3</sub> <sup>[3]</sup>			
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			

<sup>[1]</sup> Unless otherwise noted, monthly emissions data obtained from 'U1/U2\_MonthlySummary\_MassEmissionsAndFuel' RegPerfect Report.

<sup>[2]</sup> Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1\_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.

<sup>[3]</sup> Monthly NH<sub>3</sub> 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.

<sup>[4]</sup> Monthly emission limits are per COC AQ-5.

#### Table 9. Monthly Emissions - September 2024

	Monthly Emissions (lb/month) <sup>[1]</sup>								
Source	NOx <sup>[2]</sup>	СО	voc	SOx	PM <sub>10</sub> /PM <sub>2.5</sub>	NH3 <sup>[3]</sup>			
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 <sup>[4]</sup>	N/A	7,633	3,236	227	4,876	N/A			
Exceeds Limit?	N/A	No	No	No	No	N/A			

<sup>[1]</sup> Unless otherwise noted, monthly emissions data obtained from 'U1/U2\_MonthlySummary\_MassEmissionsAndFuel' RegPerfect Report. <sup>[2]</sup> Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1\_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.

<sup>[3]</sup> Monthly NH<sub>3</sub> 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.

<sup>[4]</sup> Monthly emission limits are per COC AQ-5.

Reporting Period: Quarter 3 2024

#### Methodology

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

#### **Emission Factors**

	Emission Factor	
Pollutant	(lb/Mgal)	Reference
NOx	469	Emission factor provided in the facility's Title V Permit.
CO	13.62	Emission factor converted from the factor provided in the facility's Title V Permit (0.4 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
VOC	3.41	Emission factor converted from the factor provided in the facility's Title V Permit (0.1 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
SOx	0.21	Default for Diesel/Distillate Oil, ICEs given in the SCAQMD's Combustion Default Emission Factors - January 2022.
PM <sub>10</sub> /PM <sub>2.5</sub>	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 <sub>3</sub>	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

	Monthly Hours of Operation <sup>[1]</sup>		1]	Fuel Usage	Fuel Usage Monthly Emissions (lb/month)					
Month	Maintenance	Testing	Emergency	(gal/month) <sup>[2]</sup>	NOx	CO	VOC	SOx	PM <sub>10</sub> /PM <sub>2.5</sub>	NH <sub>3</sub>
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 Ma	intenance and Testi	ng <sup>[3]</sup>	50							

Total Annual Limit<sup>[3]</sup> 200

Exceeds Limits? No

<sup>[1]</sup> Monthly hours of operation calculated from Device 385/403 run timer readings.

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

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

Appendix B Cooling Tower Blowdown Reports



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.

Project Manage



#### **Certificate of Analysis**

Page 2 of 2

Report Date: 07/10/24

PLS Report No.: 2407013

Submitted: 07/02/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower B	lowdown Wa	ter (24	07013-0	1) Sam	pled: 0	7/02/24	08:00 R	eceived:	07/02/24				
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolved Solids	4470		1	mg/L	5.0	-	SM	2540C	07/08/24	07/0	09/24	jks	BG40913
			Qı	uality	Contro	ol Data	3						
	19 19 19 19 19 19 19 19 19 19 19 19 19 1	1005	<u>,</u>			Spike	Source		%REC		RPD		
Analyte	Re	sult	PQL	ι	Inits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BG40913		Sect.		2.34	= itom	10 M	10-T	1.1		-11 	12.1	1	
Blank	Pre	pared: 07	/08/24	Analyzed	07/09/	24							
Total Dissolved Solids	N	D	5.0	n	ng/L								
LCS	Pre	pared: 07	/08/24 /	Analyzed	07/09/	24							
Total Dissolved Solids	49	0.0	5.0	n	ng/Ł	50.00		98.0	80-120				
Duplicate Source: 2407	'029-01 Pre	pared: 07	/08/24 /	Analyzed	07/09/	24							
Total Dissolved Solids	40	50	5.0	n	ng/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

Fick Procen Parlier

Authorized Signature(s)

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		OS A B SI	TIVE 781 East Was	hington B	lvd., Lo 5-5312	ISTOL Is Angele: FAX (21)	5, CA 900 8) 745-63	10 F 121 172		6131	5 N	LQU1	201	DAT	Е: <u>7-1</u>	iry	. P	'AGE: OF
51.37.319		AD SI	ERVICE				J 1 40 00						FILE	E NO.:_	_		LAB	NO.: 140 103
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO	Э.	MALBU	RG GENE	RATING S	FATION	WEEKLY	<b>P.O</b> .	NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	FO ST. VERNON CA 90058									ANA	LYSES	REQ	UEST	ED		OBSERVED TEMP D.9%
PROJE	CT MANA	AGER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.9°
SAMPL	ER NAM	E:	JOHN BARIE	SIGNA	TURE	-e												THERMO ID: 66
TAT (T	ırn-Arou	nd-Time):	0=Same Day: 1=24 Hour: 2=	48Hour:	ÆTC	.) N=Nor	mal											05 8
CONTA	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other																	
UST PR	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other         UST PROJECT: Y N GLOBAL ID#:																	
SAMPLE	JST PROJECT:       Y       N       GLOBAL ID#:            GAMPLE       DATE       Time       SAMPLE DESCRIPTION       MATRIX       TAT       CONTAINER       CONDITIONS/																	
ID     SAMPLED     SAMPLED     SAMPLED     SAMPLED     SAMPLED     SAMPLE     SAMPLED     SAMPLE     SAMPLED     SAMPLE     SAMPLE														CONTAINER/COMMENTS				
	N.224	0300	COOLING TOWER BLOWDOWN	X				N	1	Р	X							
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																	1	
Relingui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):	1		Date:		Time	e:		SAM	IPLE	DISPOSITION
	MA	0	,	F		0	Joh	n Bar	ie	0	7.2.2	14	OF	500		1 Sam	unles re	turned to client? Yes No
Relinqui	shed by (S	ionature&	Name).	Receive	d by (S	Signature	& Nam	e).			Date:	1	Tim	<b>a</b> .		2 Sam	nples re	ill not be stored over 30 days
rtonnqui	shea by (E	ignaturose	ramoj.	Receive	u oy (i	Signature	oc ivani	0).			Date.		1 1111	<i>v.</i>		2, San	ipies w	in not be stored over 50 days,
D .1'	-1 - 1 1 (6	1 <sup>*</sup> 0	N	<b>D</b> !	11. 70		0 NT	<b>.</b>			D		<b>T</b> '			unless	additic	inal storage time is requested
Kelinqui	elinquished by (Signature & Name): Received by (Signature & Name): Date: Time: 3. Storage time requested:days,																	
<u> </u>	By: Date:																	
SPECIA	L INSTR	UCTION:	1															

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

Arrived at the lab 722 11/0



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 Mahager



#### **Certificate of Analysis**

Page 2 of 2

Report Date: 07/10/24

PLS Report No.: 2407029

Submitted: 07/08/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling	Tower Blowdown	Water	(24070	29-0	)1) Sar	npled: 0	7/08/24	07:20 R	eceived:	07/08/24	The state	- inter	100	a e trade
Analyte	Resul	ts	Flag D	).F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	By	Batch
Total Dissolved Solid	ds 386	C		1	mg/L	5.0	-	SM	2540C	07/08/24	07/0	)9/24	jks	BG40913
				Q	uality	Contr	ol Data	3						
N. S. Physics		132			140	199	Spike	Source	6.1973	%REC	S. C. D. N.	RPD		205
Analyte		Result		PQL	1200	Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BG40913		1512			Sec. 19	i verser	51924	5 4 1	RATE	1-201-24				1.001
Blank		Prepare	ed: 07/08	/24	Analyze	d: 07/09/	24							
Total Dissolved Solids		ND		5.0		mg/L								
LCS		Prepare	ed: 07/08	/24	Analyze	d: 07/09/	24							
Total Dissolved Solids		49.0		5.0		mg/L	50.00		98.0	80-120				
Duplicate So	urce: 2407029-01	Prepare	ed: 07/08,	/24	Analyze	d: 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

Rit Bren Parlie

Authorized Signature(s)

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attain b	8	AD SI	ERVICE	(									FIL	E NO.:			LAB	NO .: 2407029
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO	0.	MALBU	RG GENE	RATING S	TATION	WEEKLY	e P.C	).NO.				AIRBILL NO:
ADDRES	S:	4963 SOT	TO ST. VERNON CA 90058									AN	ALYSE	S REQ	UEST	ED		OBSERVED TEMP 0. 0そ
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.0%
SAMPLE	R NAM	E:	JOHN BARIE	SIGNA	TURF	5												THERMO ID: 66
TAT (Tu	rn-Arour	d-Time)•	0=Same Day: 1=24 Hour: 2=	48Hour	(FTC	) N=Nor	mal											
CONTAI	NED TV	DES. D-D	wasse E-Encove/Easy Draws B	-Diastia				Ziele (	0-Oth	<b>AM</b>								
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SAMPLE	ST PROJECT:       Y       N       GLOBAL ID#:																	
10	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER	1	#	TYPE	Ê							CONTAINER/COMMENTS
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1	MA	-8	Ţ	a.	J	mb	Ni	-)-		-	). 8	24	0	720		1. Sam	ples retu	urned to client? Yes No
Relinguis	hed by (S	ignature&	Name):	Receive	d by (	Signature	& Nam	e):			Date:		Tir	ne:		2. Sam	ples wil	I not be stored over 30 days,
	• ``	U				0										unless a	addition	al storage time is requested
Relinguis	hed by (S	ignature&	Name):	Receive	d by (	Signature	& Nam	e):			Date:		Tir	ne:		3. Stora	age time	e requested: days.
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of Lent																		
PRESER	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOl	16-NH4	BUFFE	ER 7-	OTHE	R	_				_			
	an particular is for	~	AND ARAM	analogical processing and the						n ng K								
	Arrived at	the lab	644 000															



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



#### **Certificate of Analysis**

Page 2 of 2

Report Date: 07/24/24

PLS Report No.: 2407097

Submitted: 07/17/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blo	wdown Wa	ter (240	7097-0	1) Sam	pled: 0	7/17/24	08:00 R	eceived:	07/17/24				
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	By	Batch
Total Dissolved Solids	3380		1	mg/L	5.0	-	SM	2540C	07/18/24	07/	19/24	SS	BG41905
			Q	uality	Contro	ol Data	3						
		C.S.	1.	125	L. O.	Spike	Source	1	%REC	1.1	RPD		
Analyte	Res	sult	PQL	l	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BG41905				1.5-5	1 mars	201	alaria M	Constanting of the	A Commission	i histo	1		
Blank	Pre	pared: 07	/18/24	Analyzed	: 07/19/	24							
Total Dissolved Solids	N	D	5.0	r	ng/L								
LCS	Pre	pared: 07	/18/24	Analyzed	: 07/19/	24							
Total Dissolved Solids	53	.0	5.0	r	ng/L	50.00		106	80-120				
Duplicate Source: 24070	97-01 Pre	pared: 07	/18/24	Analyzed	: 07/19/	24							
Total Dissolved Solids	32	70	5.0	г	ng/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

Fick Coren Parlies

Authorized Signature(s)

		ne		IN OI	F CU	STOD	Y Al	ND A	NAI	LYSI	S RI	EQUI	EST				
	25		781 East Was	hington B (213) 74	lvd., Lo 5.5312	S Angeles	), CA 900	21						DATE	7-1	7.24	PAGE: OF
202020	L/	AB SI	ERVICE	[213] 14	2-2215		y 745-03						FILE	: NO.:_		LA	BNO .: 2407097
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO	).	MALBU	RG GENEI	RATING ST	FATION	WEEKLY	<b>P.O.</b>	NO.			AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									ANA	LYSES	REQU	ESTE	D	OBSERVED TEMP 0:376
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:								CORRECTED TEMP: 1.3°C
SAMPLI	ER NAM	E:	JOHN BARIE	SIGNA	TURE	: 5	<i>,</i>										THERMO ID: 66
TAT (Tu	FAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal         CONTAINER TYPES: B=Brass: E=Encore/Easy Draw: P=Plastic: C=Class: V=VOA Vial: O=Other																
CONTA	INER TY	PES: B=B	rass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	VOA V	/ial; (	0=Oth	er			6				
UST PR	UNTAINER TITES: B=Brass; E=Encore/Easy Draw; P=Piasuc; G=Giass; V=VOA Viai; O=Otner																
SAMPLE	AMPLE DATE TIME SAMPLE DESCRIPTION MATRIX TAT CONTAINER OF CONDITIONS/ D SAMPLED SAMPLED SAMPLED CONTAINER																
ID SAMPLED SAMPLED WATER SOIL SLUDGE OTHER # TYPE P CONTAINER/COMMENTS															CONTAINER/COMMENTS		
	NITH SEE COOLING TOWER BLOWDOWN X N 1 P X																
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					1												
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	e:	:	SAMPL	E DISPOSITION
N	vof		T	En						7.1	7.24	/	OX	٦ L	1	I. Samples	s returned to client? Yes No
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	e:		2. Samples	s will not be stored over 30 days,
																unless add	itional storage time is requested
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	e:		3. Storage	time requested:days,
															]	Ву:	Date:
SPECIA	L INSTR	UCTION:															
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOł	16-NH4	BUFFE	R 7-	OTHE	R							

Arrived at the lab 7-17-24 0840



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



#### **Certificate of Analysis**

Page 2 of 2

Report Date: 07/29/24

PLS Report No.: 2407120

Submitted: 07/22/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling	Tower Blowdown	Water (24	07120-0	1) Sam	pled: 0	7/22/24	08:00 R	eceived:	07/22/24	有限等的			
Analyte	Result	s Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	By	Batch
Total Dissolved Sol	ids 3480		1	mg/L	5.0	-	SM	2540C	07/25/24	07/	26/24	SS	BG42613
			Q	uality	Contro	ol Data	1						
			el-th		5.19	Spike	Source		%REC	122	RPD		-
Analyte	Read and the second	Result	PQL	ι	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BG42613		14 35	1. 5.	1.45	1.5.1	Sec.10	-	155.10	12.375				
Blank		Prepared: 0	7/25/24	Analyzed	: 07/26/	24							
Total Dissolved Solids		ND	5.0	r	ng/L								
LCS		Prepared: 0	7/25/24	Analyzed	: 07/26/	24							
Total Dissolved Solids		57.0	5.0	r	ng/L	50.00		114	80-120				
Duplicate S	ource: 2407142-05	Prepared: 0	7/25/24	Analyzed	: 07/26/	24							
Total Dissolved Solids		3970	5.0	r	ng/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 Í.

Authorized Signature(s)

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		OS		AIN OI	FCU	STOL	OY AN	ND A	NAI	LYSI	S R	EQU	EST		_			
.1.1			781 East Wa	shington B (213) 74	lvd., Lu 5-5312	S Angele:	s, CA 90( 3) 7 <i>4</i> 5-63	121						DAT	e: <u>7</u>	222	Y P	AGE: OF
16.07.20		AB SI	ERVICE	(cra) ra	0 0010	TANJEL	J 143 03						FIL	E NO.:			LAB	NO.: 2407120
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO	0.	MALBU	RG GENEI	RATING S	TATION	WEEKLY	<b>P.O</b>	.NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									ANA	LYSE	REQ	UEST	TED		OBSERVED TEMP
PROJE	CT MANA	AGER	MATT RICHARDS	PHONE	NO:			FAX	NO:						_			CORRECTED TEMP: 1.1 °C
SAMPL	ER NAM	E:	JOHN BARIE	SIGNA	TURE	P												THERMO ID: 66
TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal																		
CONTA	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other																	
UST PR	UST PROJECT: Y N GLOBAL ID#:																	
SAMPLE	AMPLE DATE TIME SAMPLE DESCRIPTION MATRIX TAT CONTAINER OF SAMPLE CONDITIONS/ ID SAMPLED SAMP																	
	ID     SAMPLED     WATER     SOIL     SLUDGE     OTHER     #     TYPE     P       D2244     CVR     0000 N/C TOUTED DUCUDOUDU     X     0     N     1     D     X																	
	7224 Ober COOLING TOWER BLOWDOWN X N 1 P X																	
<u> </u>				+	-									+		-		
				1	-									+	-		<u> </u>	
					1													
Relinqui	shed by (S	ignature&	Name):	Receive	d by (	Signature	& Nam	e):			Date		Tin	ne:		SAM	PLE	DISPOSITION
	m			To	T	mBani	è			7	w	4	Ô	Ber		1. Sam	ples re	sturned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	ed by (	Signature	& Nam	e):			Date		Tin	ne:		2. Sam	nples w	ill not be stored over 30 days,
																unless	additic	onal storage time is requested
Relinqui	ished by (S	ignature&	Name):	Receive	ed by (	Signature	& Nam	e):			Date		Tin	ne:		3. Stor	rage tim	ne requested:days,
	By:Date:																	
SPECIA	L INSTR	UCTION																
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC AC	ETATE 5	-NaOl	H 6-NH4	BUFFE	R 7-	OTHE	R								

Arrived at the lab 7.2224 0825



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


Page 2 of 2

Report Date: 08/06/24

PLS Report No.: 2407189

Submitted: 07/29/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards Phone: (323) 476-3626 FA

3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower B	Blowdown Wat	er (240	07189-0	1) Sam	pled: 0	7/29/24	08:15 R	eceived:	07/29/24			Juin.	1
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolved Solids	3200	В	1	mg/L	5.0	-	SM	2540C	08/01/24	08/0	)2/24	mv	BH40603
			Qı	uality	Contro	ol Data	9						
			() alp-			Spike	Source		%REC		RPD		
Analyte	Resu	ılt	PQL		Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BH40603								1.4					
Blank	Prep	ared: 08	/01/24	Analyzed	: 08/02/	24							
Total Dissolved Solids	16.0	)	5.0	I	mg/L								В
LCS	Prep	ared: 08	/01/24	Analyzed	: 08/02/	24							
Total Dissolved Solids	55.0	)	5.0	1	ng/L	50.00		110	80-120				В
Duplicate Source: 240	7189-01 Prep	ared: 08	/01/24	Analyzed	: 08/02/	24							
Total Dissolved Solids	316	0	5.0	1	ng/L		3200			1.41	5		В

#### Notes and Definitions

 B
 Analyte present in the blank (CLP B-flag).

 NA
 Not Applicable

 ND
 Analyte NOT DETECTED at or above the report

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

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

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

Fick Owen Parlier

Authorized Signature(s)

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ruhali		OS AB SI	ERVICE CHA	IN OF hington B (213) 74	F CU Ivd., La 5-5312	STOE s Angeles FAX (21)	<b>DY AN</b> 5, CA 90( 8) 745-63	ND A 121 172	NAI	LYSI	S RI	EQU	EST	DAT	<sub>Е:</sub> <u>7-</u> а	29.2	Y P	PAGE: _ OF /
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NG	D.	MALBU	RG GENER	RATING ST	TATION	WFEKLY	P.0	NO.			LAD	AIRBILL NO:
ADDRE	ss:	4963 501	TO ST. VERNON CA 90058						NO OMILIA			AN	LVSE	REO	HEST	ED		OBSERVED TEMP
PROIE	T MANA	CFP	MATT PICHAPDS	PHONE	NO:			FAVE	NO.	-								COPPECTED TEMP. 102
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: 4	2	FAAI	10.					+				THERMO ID:
TAT (Tu	AT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal																	
CONTA	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other																	
UST PR	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other         UST PROJECT: Y N GLOBAL ID#:         SAMPLE       DATE         TIME       SAMPLE DESCRIPTION         MATRIX       TAT         CONTAINER       2																	
SAMPLE	ST PROJECT:       Y       N       GLOBAL ID#:           AMPLE       DATE       TIME       SAMPLE DESCRIPTION       MATRIX       TAT       CONTAINER         ID       SAMPLED       Sampled       WATER       Soil       Sludge       other       #       TYPE       CONTAINER/CONMENTS																	
ID	MPLE     DATE     TIME     SAMPLED     MATRIX     TAT     CONTAINER       ID     SAMPLED     SAMPLED     WATER     SOIL     SLUDGE     OTHER     #     TYPE     P       ID     SAMPLED     SAMPLED     WATER     SOIL     SLUDGE     OTHER     #     TYPE     P       ID     SAMPLED     SAMPLED     VATER     SOIL     SLUDGE     OTHER     #     TYPE     P																	
	AMPLE       DATE       TIME       SAMPLE DESCRIPTION       MATRIX       TAT       CONTAINER $\mathcal{O}_{\mathcal{O}}$ SAMPLE CONDITIONS/       SAMPLE CONDITIONS/         ID       SAMPLED       SAMPLED       SAMPLE       WATER       SOIL       SLUDGE       OTHER       #       TYPE $\mathcal{O}_{\mathcal{O}}$ CONTAINER/COMMENTS         ID       SAMPLED       SAMPLED       COLING TOWER BLOWDOWN       X       Image: Contrainer con																	
													_	_				
														_				
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):	à		Date:		Tin	ne:		SAM	PLE	DISPOSITION
A	N			for	1	mBd	The			7	29.	n	DE	3/5		1. Sam	ples re	turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tin	ne:		2. Sam	ples w	ill not be stored over 30 days,
																unless	additic	onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tin	ne:		3. Stor	age tim	ne requested: days,
																By: _		Date:
SPECIA	L INSTR	UCTION																
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	NaOl	1 6-NH4	BUEF	R 7-	OTHER	2	-						_	

Arrived at the lab 7.29.49 0940



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.

Project Manager



Page 2 of 2

Report Date: 08/12/24

PLS Report No.: 2408021

Submitted: 08/06/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blo	wdown Wat	ter (240	08021-0	1) Sam	pled: 0	8/06/24	08:15 R	eceived:	08/06/24				
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolved Solids	3980		1	mg/L	5.0	-	SM	2540C	08/08/24	08/0	09/24	SS	BH41208
			Qı	uality	Contro	ol Data	1						
				En la consecuencia		Spike	Source	1999 - 19	%REC		RPD	17- Ju	
Analyte	Rest	ılt	PQL	1	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BH41208		1	14 parties		15.000					-			2 1 ET
Blank	Prep	ared: 08	/08/24 /	Analyzed	: 08/09/	24							
Total Dissolved Solids	ND		5.0	ſ	ng/L								
LCS	Prep	ared: 08	/08/24 /	Analyzed	: 08/09/	24							
Total Dissolved Solids	56.0	D	5.0	r	ng/L	50.00		112	80-120				
Duplicate Source: 24080	21-01 Prep	ared: 08	/08/24 /	Analyzed	: 08/09/	24							
Total Dissolved Solids	402	0	5.0	I	ng/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

Fick Paren Var .

Authorized Signature(s)

		OS	ITIVE CHA	IN OF	CU	STOD	Y Al	ND A	NAI	LYSI	S RI	EQUI	EST		Re a.		DAGE: LOE
MAL		AB S		(213) 74	5-5312	FAX (213	)) 7 <b>4</b> 5-63	172					FILE	DATE; NO.:	004	LAE	$\frac{2408021}{2}$
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N.	AME/NO	).	MALBU	RG GENE	RATING ST	ATION	WEEKLY	P.O.	NO.			AIRBILL NO:
ADDRE	SS:	4963 SOT	FO ST. VERNON CA 90058									ANA	LYSES	REQU	ESTED		OBSERVED TEMP 2.7°C
PROJE	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:								CORRECTED TEMP: 1.7 4
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	ГURE	T	ت										THERMO ID: 68
TAT (T	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																
CONTA	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other UST PROJECT: Y N GLOBAL ID#:																
UST PR	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other         UST PROJECT: Y N GLOBAL ID#:																
SAMPLE	IST PROJECT:       Y       N       GLOBAL ID#:																
10	AMPLE       DATE       TIME       SAMPLE DESCRIPTION $MTRIX$ TAT $CONTAINER       \beta_{a}       SAMPLe CONDITIONS/       SAMPLe CONDITIONS/         D       SAMPLED       SAMPLED       SAMPLE SOIL       SUBSECTION       SUBSECTION       MTR       SOIL       SLUDGE       OTHER       MTR MT$																
	0	9019	CODERIG TOWER BLOWDOWN								n						
	P.															-	
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S		& Nam	e):		Į	Date:	Ly	Time O	:: BI5	<b>SA</b> 1. S	MPLE	E DISPOSITION eturned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:	t.	Time	e:	2. S	amples v ss additi	vill not be stored over 30 days, ional storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	e:	3. S By:	torage ti	me requested:days,
SPECIA	AL INSTR	UCTION	:														

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

Arrived at the lab Big by 10 20



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.

Project Manager



Page 2 of 2

Report Date: 08/16/24

PLS Report No.: 2408079

Submitted: 08/13/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower	Blowdown Wa	ater (24	08079-0	1) Sam	pled: 0	8/13/24	08:05 R	eceived:	08/13/24		12.57	_	
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Anal	lyzed	Ву	Batch
Total Dissolved Solids	4000		1	mg/L	5.0	-	SM	2540C	08/15/24	08/1	16/24	SS	BH41617
			Q	uality	Contro	ol Data	3						
				weeken in		Spike	Source		%REC		RPD		
Analyte	Re	sult	PQL	1	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BH41617				S	A	6 S	-	-	100				
Blank	Pre	epared: 08	/15/24	Analyzed	: 08/16/	24							
Total Dissolved Solids	N	D	5.0	I I	ng/L								
LCS	Pre	epared: 08	/15/24	Analyzed	: 08/16/	24							
Total Dissolved Solids	4	1.0	5.0	r	ng/L	50.00		82.0	80-120				
Duplicate Source: 24	108079-01 Pro	epared: 08	/15/24	Analyzed	: 08/16/	24							
Total Dissolved Solids	40	)30	5.0		ng/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 Tarles

Authorized Signature(s)

P*								_			_	_					_	
		OS AB S	TIVE ERVICE CHA 781 East Was	IN OF hington B (213) 74	F CU Ivd., Lo 5-5312	STOD s Angeles FAX (213	Y AN 5, CA 900 8) 745-63	ND A 121 172	ANAI	LYSI	S R	EQUI	EST FILI	DAT E NO.:	e:Ø-	13-2	۲ LAB	PAGE: <u>1</u> OF NO.: <sup>2408079</sup>
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO	).	MALBU	RG GENEI	RATING S	FATION	WEEKLY	<b>P.O</b>	NO.				AIRBILL NO:
ADDRE	SS:	4963 SO	TO ST. VERNON CA 90058									ANA	LYSES	REQ	UEST	ED		OBSERVED TEMP 0.202
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 12 C
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA'	TURE	· ~ >	/											THERMO ID:-66
TAT (Tu	AT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal																	
CONTA	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other         UST PROJECT: Y N GLOBAL ID#:																	
UST PR	2ONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other         JST PROJECT: Y N GLOBAL ID#:																	
SAMPLE	T PROJECT:       Y       N       GLOBAL ID#:																	
	MPLE       DATE       TIME       SAMPLE DESCRIPTION $MATRIX$ TAT       CONTAINER $\sigma_{1}$ SAMPLe       SAMPLE CONDITIONS/         ID       SAMPLED       SAMPLE       SAMPLE       Soil       Sludge       Other       #       TYPE       P       CONTAINER/COMMENTS         ID       SAMPLE       COOLING TOWER BLOWDOWN       X       I       IN       1       P       X       Image: Container / Con																	
	ID     SAMPLED     SAMPLED     WATER     SOIL     SLUDGE     OTHER     #     TYPE     P       37324     53055     COOLING TOWER BLOWDOWN     X     N     1     P     X     Image: Contrained and the contreal and the contrained and the contreal and the contrain																	
										<u> </u>			-					
									-	1								
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature nBd11Ē	& Nam	e):			Date: B13	24	Tim	e:		SAM	PLE	DISPOSITION turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		Tim	e:		2. Sam	nples w additic	ill not be stored over 30 days,
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		Tim	e:		3. Stor By:	rage tim	ne requested:days,
SPECIA	L INSTR	UCTION	:															

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



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.

/Project Manager



Page 2 of 2

Report Date: 08/26/24

PLS Report No.: 2408118

Submitted: 08/20/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Bl	owdown Wate	er (240	08118-0	1) San	pled: 0	8/20/24	07:10 R	eceived:	08/20/24				00-001
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolved Solids	3980		1	mg/L	5.0	-	SM	2540C	08/22/24	08/2	23/24	SS	BH42321
			Q	uality	Contro	ol Data	3						
			1914 <u>-</u> 5	°		Spike	Source		%REC		RPD	. =	
Analyte	Resul	t	PQL	1	Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BH42321	12/5-15			-	-	st ge	1-1-20	1.2		-		-1	
Blank	Prepa	ared: 08	/22/24	Analyzed	: 08/23/	24							
Total Dissolved Solids	ND		5.0	li i	mg/L								
LCS	Prepa	ared: 08	/22/24	Analyzed	: 08/23/	24							
Total Dissolved Solids	54.0		5.0	ļ	mg/L	50.00		108	80-120				
Duplicate Source: 2408	8118-01 Prepa	ared: 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 Parlin

Authorized Signature(s)

		OC		IN OI	CU	STOL	Y AN	ND A	NAI	<b>YSI</b>	S R	EOI	JES	Т					
		03	781 East Was	hington B	lvd., Lo	s Angeles	s, CA 90(	121						]	DATE:	Ré	20.2	-4 P	AGE: QF
.40ml.	L/	AB SI	ERVICE	(213) 74	5-5312	FAX (21)	3) 745-63	72						FILE 1	NO.:			LAB	NO.:2408118
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/N	Э.	MALBU	RG GENER	RATING S	TATION	WEEKL	Y	<b>P.O.</b> N	í <b>O.</b>				AIRBILL NO:
ADDRE	SS:	4963 SOT	FO ST. VERNON CA 90058							1		AN	ALY	SES I	REQUI	EST	ED		OBSERVED TEMP 0.8°C
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:										CORRECTED TEMP: 1.3%
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: ~	/												THERMO ID:
TAT (Tu	CAT (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																		
CONTA	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other UST PROJECT: Y N GLOBAL ID#:																		
UST PR	JST PROJECT:     Y     N     GLOBAL ID#:         JAMPLE     DATE     TIME     SAMPLE DESCRIPTION     MATRIX     TAT     CONTAINER     ©																		
SAMPLE ID	T PROJECT:       Y       N       GLOBAL ID#:																		
	VIPLE       DATE       TIME       SAMPLE DESCRIPTION       MATRIX       TAT       CONTAINER $\phi_{1}$ Sample description       Sample description       Sample description $water$ soil       sludge       other       TAT       CONTAINER $\phi_{2}$ Sample description       Sample description       Sample description $water$ soil       sludge       other       TAT       CONTAINER $\phi_{2}$ Sample description       Sample description       Sample description $water$ soil       sludge       other       Tat       CONTAINER $\phi_{2}$ Sample description       Sample desc																		
	ID       SAMPLED       SAMPLED       WATER       SOIL       SLUDGE       OTHER       #       TYPE $\vdash$ CONTAINER/COMMENTS. $\mathcal{C}_{\mathcal{D}}$ $\mathcal{C}_{\mathcal{D}}$ COOLING TOWER BLOWDOWN       X       V       N       1       P       X       V																		
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:			SAM	PLE	DISPOSITION
	MA		Z		Own	Bon				8	202	Y	67	2		_	1. Sam	ples re	turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:			2. Sam	ples wi	ill not be stored over 30 days,
																	unless	additio	onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:			3. Store	age tim	ne requested:days,
L														- 100			Ву:		Date:
SPECIA	L INSTR	UCTION	:																
DDESE		1 11102			NaOl		DUEE	-0.7	OTUE	-								_	

Arrived at the lab B-20 by 0935



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.

Project Manager



#### **Certificate of Analysis**

Page 2 of 2

Report Date: 09/03/24

PLS Report No.: 2408163

Submitted: 08/26/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooli	ng Tower Blowdow	n Wat	er (240	8163-0	1) Sam	pled: 0	8/26/24	09:30 R	eceived:	08/26/24				
Analyte	Re	sults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolved S	olids 44	140		1	mg/L	5.0	-	SM	2540C	08/29/24	08/3	30/24	SS	BH43014
				Q	uality	Contro	ol Data	3						
		Sanger S				14	Spike	Source	1.212	%REC		RPD		
Analyte		Resu	lt	PQL	1	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BH43014						12.00	-					1.42		
Blank		Prep	ared: 08	/29/24	Analyzed	: 08/30/	24							
Total Dissolved Solid	ds	ND		5.0		ng/L								
LCS		Prep	ared: 08	/29/24	Analyzed	: 08/30/	24							
Total Dissolved Solid	ds	53.0	)	5.0		mg/L	50.00		106	80-120				
Duplicate	Source: 2408190-01	Prep	ared: 08	/29/24	Analyzed	: 08/30/	24							
Total Dissolved Solid	İs	117	)	5.0		mg/L		1150			1.44	5		

**Notes and Definitions** 

Inthis

NR Not Reported

MDL Method Detection Limit

Not Applicable

NA

ND

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131

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

Authorized Signature(s)

		00	СНА		CU	STOP	VAN		NA	VCI	S DI	FOU	FST		-			
	$\Delta \mathbf{P}$	OS	TIVE 781 East Was	hington B	lvd., Lo	s Angeles	5, CA 900	111 P 121	MAI		5 KI	EQU	E91	DAT	F. 8	262	¥ F	PAGE: / OF
Male	L/	AB SI	ERVICE	[213] 74	5-5312	FAX (213	8) 745-63	72					FII	E NO.:			LAB	NO.: 2408-163
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO	).	MALBU	RG GENE	RATING S	FATION	WEEKLY	P.0	).NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	FO ST. VERNON CA 90058									AN	ALYSE	S REQ	UEST	FED		OBSERVED TEMP 0.104
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: (-1 °C
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: 7												THERMO ID:
TAT (Tı	ırn-Aroun	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	) N=Nor	mal											
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; <b>G=</b> G	lass; V=	VOA V	'ial; (	D=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:	 	 MA	TRIX		TAT	CONT	ATMEN								SAMPLE CONDUCTIONS/
ID ID	SAMPLED	SAMPLED	SAMPLE DESCRIPTION	WATER	SOIL	SLUDGE	OTHER	IAI	#	TYPE	TDS							CONTAINER/COMMENTS
	B2624	0930	COOLING TOWER BLOWDOWN	x				N	1	P	X							
	/																	
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Relinqui	shed by (Since $A$	ignature&	Name):	Receive	d by (S		& Nam	e):		6	Date:	·· · ·	Tin Of	ne:		SAM	IPLE	DISPOSITION
D 11 .	VV		V.	<u></u>	ferm	Isone				0	26	UY .		Ju		1. Sam	nples re	sturned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tu	ne:		2. Sam	nples w	ill not be stored over 30 days,
Delinqui	shed by (S	imatural	Name)	Daaaiwa	d h (6	lignoturo	Pr Man	a)ı			Data		Ti			unless	additio	onal storage time is requested
Reiniqui	siled by (S	ignatureœ	Name).	Receive	u by (a	ngnature	& INAIII	e):			Date:		11	ne:		By:	rage tin	Date:
SPECIA	L INSTR	UCTION:														<i>DJ</i>		
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOł	16-NH4	BUFFE	R 7-	OTHE	R								
Arriv	ed at the la	b 8 21	6-4 1000															



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.

Project Manager



Page 2 of 2

Report Date: 09/09/24

PLS Report No.: 2409010

Submitted: 09/04/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower B	lowdown W	ater (240	9010-0	1) Sam	pled: 0	9/04/24	08:35 R	eceived:	09/04/24			de la	
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	By	Batch
Total Dissolved Solids	4060		1	mg/L	5.0	-	SM	2540C	09/05/24	09/0	06/24	SS	BI40614
			Q	uality	Contro	ol Data	1						
						Spike	Source	1. E. E.	%REC		RPD		
Analyte	Re	esult	PQL	ι	Inits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BI40614					1.5.7 =			H	101 - F.F F.			1.	Te and
Blank	Pr	epared: 09	/05/24	Analyzed	09/06/	24							
Total Dissolved Solids		ND	5.0	п	ng/L								
LCS	Pr	epared: 09	/05/24	Analyzed	09/06/	24							
Total Dissolved Solids	5	1.0	5.0	n	ng/L	50.00		102	80-120				
Duplicate Source: 240	9010-01 Pr	epared: 09	/05/24	Analyzed	09/06/	24							
Total Dissolved Solids	4	030	5.0	n	ng/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

Appn Mussiph

Authorized Signature(s)

-							_										-	
	<b>NP</b>	OS		AIN O	FCU	STOR	OY Al	ND A	NAI	LYSI	S R	EQU	EST		-			, /
			781 East Wa	ishington B (213) 74	Ivd., Li 5-5312	S Angeles	s, CA 900 3) 745-63	J21						DAT	'Е: <u>9'</u>	4.24	F	PAGE: $l OF l$
N.J.C.R.	L/	ABS	ERVICE	[CI3] M	2-2215	THAN [CT.	Jj 743-0.						FII	E NO.:	_		LAB	NO .: 2409010
CLIENT	NAME:	CITY OI	F VERNON	PROJE	CT N	AME/NO	Э.	MALBU	RG GENEI	RATING ST	FATION	WEEKLY	P.0	D.NO.				AIRBILL NO:
ADDRE	SS:	4963 SO	TO ST. VERNON CA 90058									AN	ALYSE	S REQ	UEST	red		OBSERVED TEMP D-7%
PROJEC	CT MANA	AGER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.7"
SAMPL	ER NAM	E:	JOHN BARIE	SIGNA	TURE													66 THERMO ID:
TAT (T	ırn-Arou	nd-Time):	0=Same Day; 1=24 Hour; 2	=48Hour;	(ETC	.) N=Nor	mal											
CONTA	INER TY	PES: B=F	Brass; E=Encore/Easy Draw;	P=Plastic	; G=0		=VOA V	Vial; (	O=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:															
SAMPLE	ST PROJECT:       Y       N       GLOBAL ID#:																	
ID	VIPLE     DATE     TIME     SAMPLED     DESCRIPTION     MATRIX     TAT     CONTAINER       ID     SAMPLED     SAMPLED     Soil     Sludge     OTHER     #     TYPE     F       944.00     WATER     Soil     Sludge     OTHER     N     1     P     X																	
	VILLE       DATE       INFE       SAMPLE DESCRIPTION       INFERENCE       IAI       CONTAINER $\mathcal{O}_{0}$ SAMPLE CONDITIONS/         ID       SAMPLED       SAMPLED       SAMPLE       WATER       SOIL       SLUDGE       OTHER       #       TYPE $\mathcal{O}_{1}$ CONTAINER/COMMENTS $\mathcal{O}_{1}$ $\mathcal{O}_{2}$ $$																	
				-									_			-		
				-										_	-		<u> </u>	
														_				
										-						-		
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tin	ne:		SAM	IPLE	DISPOSITION
	MA			Io-1	una	bre				9	YM		Ût	BY		1. San	nples re	cturned to client? Yes No
Relinqui	shed by (S	signature&	Name):	Receive	d by (	Signature	& Nam	e):			Date:		Ti	me:		2. San	nples w	ill not be stored over 30 days,
																unless	additio	onal storage time is requested
Relinqui	shed by (S	signature&	Name):	Receive	d by (	Signature	& Nam	e):			Date		Ti	me:		3. Stor	rage tin	ne requested:days,
																By: _		Date:
SPECIA	L INSTR	UCTION	:															
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC AC	ETATE 5	-NaOl	1 6-NH4	BUFF	ER 7-	OTHE	R					-			

Arrived at the lab  $9'4'24' 09v_{\odot}$ 



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.

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Project Manager



Page 2 of 2

Report Date: 09/16/24

PLS Report No.: 2409046

Submitted: 09/09/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Co	oling Tower Blowdow	n Wate	er (240	9046-0	1) San	npled: 0	9/09/24	07:50 R	eceived:	09/09/24				
Analyte	Re	sults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolve	d Solids 3	860		1	mg/L	5.0	-	SM	2540C	09/12/24	09/:	13/24	SS	BI41313
				Qı	uality	Contro	ol Data	1						
а. На на селото с	und there are the			无礼	22	in the	Spike	Source	Ξ <u>Π</u>	%REC	100	RPD	11.5	- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1
Analyte		Resul	t	PQL	1.1.1	Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BI41313	•		12,51	# 30		54			128 4.1		5			16
Blank		Prepa	red: 09	/12/24 /	Analyzed	I: 09/13/	24							
Total Dissolved	Solids	ND		5.0		mg/L								
LCS		Prepa	red: 09,	/12/24 /	Analyzed	l: 09/13/	24							
Total Dissolved	Solids	53.0		5.0		mg/L	50.00		106	80-120				
Duplicate	Source: 2409084-01	Prepa	red: 09,	/12/24 /	Analyzed	I: 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 Dwen Parlie

Authorized Signature(s)

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.ahul		OS AB SI	TIVE RVICE CHA 781 East Was	IN OF hington B (213) 74	F CU Ivd., Lo 5-5312	STOE Is Angeles FAX (21)	<b>DY A</b> I 5, CA 90( 3) 745-63	ND A 121 172	ANAI	LYSI	S RI	EQU	EST FILI	DATI E NO.:	е: <u>9</u>	9.24	/ PA	AGE: <u>(</u> OF <u></u> NO.: 2409046
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NG	).	MALBU	RG GENEI	RATING ST	TATION '	WEEKLY	P.0	.NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									ANA	LYSES	S REOL	JEST	ED		OBSERVED TEMP
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.3 °C
SAMPL	ER NAMI	E.	JOHN BARIE	SIGNA	TURE	. e												THERMO ID: 6°
TAT (T	rn_Arour	d-Time):	A=Same Day: 1=24 Hour: 2=	18Hour	<u>фтс</u>	) N=Nor	məl											
CONTA	INFD TV	DES. D-D	Versaile Day, 1-24 Hour, 2-	-Diastia	C-C			Ziele (	)_Oth									
UST DD	DECT.	V N	CLOBAL ID#	-riastic;	0-0	1885; V-	-VUA		<u> </u>	51								
SAMPLE	DATE		SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER	S							SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	Ê							CONTAINER/COMMENTS
	9.9.2y	0750	COOLING TOWER BLOWDOWN	x				N	1	Р	X		_					
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S Jon	Signature Banie	& Nam	e):			Date: 7.9.2	Y	Tin Tin	ie:		SAM	IPLE I	DISPOSITION urned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tim	ne:		2. Sam unless	ples wil additior	I not be stored over 30 days, nal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tin	ne:		3. Stora By:	age time	e requested:days,days,
SPECIA	L INSTR	UCTION																

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



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.

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.

Project Manager



Page 2 of 2

Report Date: 09/23/24

PLS Report No.: 2409106

Submitted: 09/17/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Co	oling Tower Blowdow	n Wate	er (240	9106-0	1) Sam	pled: 0	9/17/24	09:15 R	eceived:	09/17/24				
Analyte	Re	sults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolve	d Solids 4	140		1	mg/L	5.0	-	SM	2540C	09/19/24	09/2	20/24	SS	BI42016
				Q	uality	Contro	ol Data	1						
				1			Spike	Source	DE CE	%REC		RPD		
Analyte		Resul	t	PQL	l	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BI42016 -	-	4. 5. 5	T	416.54		16		-	V. L					
Blank		Prepa	red: 09/	/19/24	Analyzed	: 09/20/	24							
Total Dissolved S	olids	ND		5.0	r	ng/L				5				
LCS		Prepa	red: 09	/19/24	Analyzed	: 09/20/	24							
Total Dissolved S	olids	50.0		5.0	r	ng/L	50.00		100	80-120				
Duplicate	Source: 2409106-01	Prepa	red: 09/	19/24	Analyzed	: 09/20/	24							
Total Dissolved S	olids	4050		5.0	r	ng/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

Fick Iwen Parlier

Authorized Signature(s)

		-				-									
THE POSITIVE CH 781 East W 781 East W	AIN OI ashington B (213) 74	F CU Ivd., Lo 5-5312	STOE os Angeles FAX (21)	<b>PY AN</b> 5, CA 900 3) 745-63	ND A 121 172	ANAI	LYSI	S R	EQU	JES	Γ DA FILE NO	.те: <u>7</u> .:	172	Ύ <sup>Р</sup> LAB	PAGE:OF NO.:2409106
CLIENT NAME: CITY OF VERNON	PROJE	CT N	AME/NG	Э.	MALBU	RG GENE	RATING S	TATION	WEEKL	x I	P.O.NO.				AIRBILL NO:
ADDRESS: 4963 SOTO ST. VERNON CA 90058									AN	NALY	SES RE	QUES	ГED		OBSERVED TEMP 0-42
PROJECT MANAGER MATT RICHARDS	PHONE	NO:			FAXI	NO:									CORRECTED TEMP: 1.4 2
SAMPLER NAME: JOHN BARIE	SIGNA	TURE	: 7	/											THERMO ID: 61
TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2	2=48Hour;	(ETC	.) N=Nor	mal											
CONTAINER TYPES: B=Brass; E=Encore/Easy Draw;	P=Plastic	; G=0	lass; V=	=VOA V	/ial; (	0=Oth	er								
UST PROJECT: Y N GLOBAL ID#:															
SAMPLE DATE TIME SAMPLE DESCRIPTION	WATER	MA	SLUDGE	OTHER	TAT	CONT #	AINER	DS							SAMPLE CONDITIONS/
9-17. OTIX COOLING TOWER BLOWDOWN					N	1	P	x							
Relinquished by (Signature& Name):	Receive	d by (S	Signature	& Nam	e):			Date:		,	Time:		SAM	IPLE	DISPOSITION
MA	- J	m/s	BUZ				9.	17.2	4	Ĉ	7915		1. Sam	nples re	sturned to client? Yes No
Relinquished by (Signature& Name):	Receive	d by (S	Signature	& Nam	e):			Date:	2	,	Time:		2. Sam	nples w	ill not be stored over 30 days,
													unless	additic	onal storage time is requested
Relinquished by (Signature& Name):	Receive	d by (	Signature	& Nam	e):			Date:		2	Time:		3. Stor	rage tin	ne requested:days,
									_				By:		Date:
SPECIAL INSTRUCTION:															
PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC AG	CETATE 5	-NaOl	1 6-NH4	BUFFE	R 7-	OTHE	R		_						
Arrived at the lab 9-1744 950															



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.

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.

Project Manager



Page 2 of 2

Report Date: 09/30/24

PLS Report No.: 2409145

Submitted: 09/23/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooli	ng Tower Blowdown	n Wate	er (240	9145-0	1) Sam	pled: 0	9/23/24	07:40 R	eceived:	09/23/24				
Analyte	Res	sults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolved S	iolids 33	60		1	mg/L	5.0	-	SM	2540C	09/26/24	09/2	27/24	mv	BI43006
				Q	uality	Contro	ol Data	1						
1.2.1.2.1.2			See. 1	1			Spike	Source	Plank!	%REC	10-1	RPD		Carlos a
Analyte	1 - 1 × 2 + 4 + 5 + 1	Resu	lt	PQL		Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BI43006				S.E.	MARTI	a hall	263	Se HE	They.	87. NO		47.15		8.20
Blank		Prepa	ared: 09	/26/24	Analyzed	: 09/27/	24							
Total Dissolved Soli	ds	ND		5.0		mg/L								
LCS		Prepa	ared & A	nalyzed:	09/27/2	24								
Total Dissolved Soli	ds	52.0		5.0		mg/L	50.00		104	80-120				
Duplicate	Source: 2409148-01	Prepa	ared: 09	/26/24	Analyzed	: 09/27/	24							
Total Dissolved Soli	ds	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

Fick Duren Par le

Authorized Signature(s)

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selvel.		OS AB SI	TIVE CHA 781 East Was	IN OI hington B (213) 74	F CU Ivd., La 5-5312	STOD s Angeles FAX (213	Y AN 6, CA 900 1) 745-63	ND A 21 72	ANA]	LYSI	S RI	EQU	EST FII	DATI E NO ·	E: 9	23.2	LAB	AGE: <u>l</u> OF <u></u> NO: 2409145
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NC	).	MALBU	RG GENE	RATING S	FATION	WEEKLY	P.C	.NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	FO ST. VERNON CA 90058							_		ANA	LYSE	S REQU	JEST	ED		OBSERVED TEMP
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.0 %
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	· m	5											THERMO ID: 60
TAT (Tu	ırn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	) N=Nor	mal											
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	VOA V	'ial; (	0=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:															
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION	WATER	MA	TRIX	OTHER	TAT	CONT #	AINER	CDS							SAMPLE CONDITIONS/
	ID     SAMPLED     SAMPLED     WATER     SOIL     SLUDGE     OTHER     #     T       T     T     T     T     T     T     T     T							P	x									
			_															
Relinqui	shed by (S A	ignature&	Name):	Receive	d by (S	Signature	& Name	e):			Date: I L3	24	Tir つう	ne: 140		SAM	PLE	DISPOSITION turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tir	ne:		2. Sam	ples wi additio	ill not be stored over 30 days,
Relinquished by (Signature & Name):       Date:       Time:       3. Storage time required         By:											ie requested:days,Date:							
SPECIA	L INSTR	UCTION																

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

ø

Arrived at the lab 9:23-24 09 25



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.

Project Manager



#### **Certificate of Analysis**

Page 2 of 2

Report Date: 10/07/24

PLS Report No.: 2409182

Submitted: 09/30/24

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower	Blowdown Wa	ter (240	09182-0	1) San	pled: 0	9/30/24	07:35 R	eceived:	09/30/24				
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolved Solids	4120		1	mg/L	5.0	-	SM	2540C	10/03/24	10/0	04/24	55	BJ40407
			Q	uality	Contr	ol Data	3						
			一点		- 	Spike	Source		%REC		RPD	12	
Analyte	Res	ult	PQL		Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BJ40407	a luña a film	2.75		- 5176			The set		10.515	10 mm		E T	
Blank	Pre	pared: 10	/03/24	Analyzed	: 10/04/	24							
Total Dissolved Solids	NE	)	5.0		mg/L								
LCS	Pre	pared: 10	/03/24	Analyzed	: 10/04/	24							
Total Dissolved Solids	54.	0	5.0		mg/L	50.00		108	80-120				
Duplicate Source: 244	09182-01 Prej	pared & A	nalyzed:	10/04/2	4								
Total Dissolved Solids	417	0	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

Fick Owen Parlier

Authorized Signature(s)

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nh.A.		OS AB SI	TIVE RVICE	hington B (213) 74	lvd., Lo 5-5312	STOL os Angele FAX (21	<b>DY A</b> 1 s, CA 90( 3) 745-63	ND A 021 172	NAI	LYSI	S R	EQUI	EST	DATE:	9.3	<u>&gt; 2</u> 4 LAI	PAGE: <u>t</u> OF <u>/</u> BNO.: <u>2409182</u>
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/N	0.	MALBU	RG GENEI	RATING S	TATION	WEEKLY	P.O.	NO.			AIRBILL NO:
ADDRE	SS:	4963 SOT	O ST. VERNON CA 90058									ANA	LYSES	REQU	ESTEI	)	OBSERVED TEMP O.O.C.
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	:08								CORRECTED TEMP: 1,0%
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	, Co											THERMO ID: 60
TAT (Tu	ırn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Noi	rmal										
CONTA	INER TY	PES: B=B	rass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	=VOA V	/ial; (	)=Oth	er							
UST PR	OJECT:	Y N	GLOBAL ID#:														
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER	SO						SAMPLE CONDITIONS/
	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	Ē		_	+	_	_	CONTAINER/COMMENTS
<u> </u>	130.44	0735	COOLING TOWER BLOWDOWN	X				N	1	P	X	_	_	+	_	_	
<u> </u>													_	$\left  \right $	_	_	
														$ \downarrow \downarrow$	_	_	
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	e:	S	AMPLE	DISPOSITION
	M			Z	Jer	m Barte				9	30.2	7	07	7-	1.	Samples r	returned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	ə:	2	Samples v	vill not be stored over 30 days.
1	, i i i i i i i i i i i i i i i i i i i	0						-)-			2					less additi	ional storage time is requested
Relinqui	shed by (S	ionature&	Name):	Receive	d by (9	Signature	& Nam	e).			Date		Time	<b>.</b>	3	Storage ti	me requested:
litomqui	oned of (o	ignaturecc	ranoj.	Receive	u by (i	ngnature	oc ryam	0).			Date.		1 1110	<i>.</i>	B.	r	Date
SPECIA	LINSTP	UCTION														•	Duto.
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PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

Arrived at the lab 913 4 09.7

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 <sup>[1]</sup>	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 <sup>[1]</sup>	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 <sup>[2]</sup>	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

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

<sup>[2]</sup> 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 <sup>[1]</sup>	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

<sup>[1]</sup> 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



#### **ORDER NUMBER: 2607075**

#### DATE:3/20/2024

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

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

PO#: 00240083

SHIP DATE: 12/31/5999

ROM:

SHIP VIA:

WHSE: 101

#### 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

НМ	ITEM CODE	ITEM DESCRIPTION	QTY ORDERED	QTY DEL	PACKAGE DESC	EXTENDED QTY	UNIT PRICE	EXT PRICE
x	O:TODD/POC:	ROB 323-583-8811 X257/HRS:8A-2P				V		
	693D055	R99 DYED RENEWABLE CARB DIESEL MAXIMUM 15 PPM SULFUR, DIESEL FUEL	2.00		55 G DR	110.00 GALS	6.06	666.86
		#2. MEETS ALL CARB DIESEL SPECS. For use in State of California NON TAXABLE USE ONLY PENALTY FOR TAXABLE USE.	DI	SF	<b>PA</b> 7	ТСН		
	Federal Lust					0.001	00	0.11
					-	6.063	340	666.97
	CH253090981D05 5	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
	DRUMDEPOSITC 001	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

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

Page 1 of 1

# Appendix E Excess Emission Report

## Startup/Shutdown Excess Emissions Report

## U1 CO Startup/Shutdown



From:	07/01/2024 00:0	о <b>то:</b> О	9/30/2024 23:	59 Facility Name	<b>e:</b> Malburg	Generating Station
Generated:	10/10/2024 22:0	8		Location:	Vernon,	California
Tag Name:	U1_CO_LbPerHr_1	М		<pre>SI = SampleInvalid,</pre>	* = Excess Emission	
Total Operat	ting Time:	1,981.	30 Hours			
Non-Operatin	g Time: 226.70	lours	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 00:00To:09/30/2024 23:59Facility Name:Malburg Generating StationGenerated:10/10/2024 22:08Location:Vernon, CaliforniaTag Name:U1\_CO\_LbPerHr\_1MSI = SampleInvalid, \* = Excess EmissionTotal Operating Time:1,981.30HoursNon-Operating Time:226.70HoursReport Time: 2,208.00

No invalid events were found in the reporting period.

#### U1 NOx Startup/Shutdown



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



#### U1 NOx Startup/Shutdown



From:	07/01/2024 00	):00 <b>To:</b>	09/30/2024 23:	59 Facility Name	Malburg Generating Station			
Generated:	10/10/2024 22	2:09		Location:	Vernon, California			
Tag Name:	U1_NOXRECLM_L	_bPerHr_1M	l	<pre>SI = SampleInvalid, *</pre>	SI = SampleInvalid, * = Excess Emission			
Total Operat	ting Time:	1,981	.30 Hours					
Non-Operatin	ig Time: 226.70	Hours	Report Time:	2,208.00 Hours				

No invalid events were found in the reporting period.

# U1 VOC Startup/Shutdown



From:	07/01/2024 00:00	<b>то:</b> 09	0/30/2024 23:	59 Facility Name	e: Malburg Generating St	tation
Generated:	10/10/2024 22:10			Location:	Vernon, California	
Tag Name:	U1_VOC_LbPerHr_1	М		<pre>SI = SampleInvalid,</pre>	* = Excess Emission	
Total Operat	ing Time:	1,981.3	0 Hours			
Non-Operatin	g Time: 226.70 н	ours	Report Time:	2,208.00 Hours		

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

### U1 VOC Startup/Shutdown



From:07/01/2024 00:00To:09/30/2024 23:59Facility Name:Malburg Generating StationGenerated:10/10/2024 22:10Location:Vernon, CaliforniaTag Name:U1\_VOC\_LbPerHr\_1MSI = SampleInvalid, \* = Excess EmissionTotal Operating Time:1,981.30HoursNon-Operating Time:226.70HoursReport Time: 2,208.00

No invalid events were found in the reporting period.

#### Unit 1 - CO ppmvdc 1-hour during Normal Operation

 From:
 07/01/2024 00:00
 To: 09/30/2024 23:59
 Facility Name:

 Generated:
 10/10/2024 22:11
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1\_CONormal\_Ppmvdc\_1HTotal Operating Time:1,988.00 Hour(s)Non-Operating Time:220.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

#### Unit 1 - NOx ppmvdc 1-hour during Normal Operation

 From:
 07/01/2024 00:00
 To:
 09/30/2024 23:59
 Facility Name:

 Generated:
 10/10/2024 22:13
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1\_NOxNormal\_Ppmvdc\_1HTotal Operating Time:1,988.00 Hour(s)Non-Operating Time:220.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

#### Unit 1 - VOC ppmvdc 1-hour during Normal Operation

 From:
 07/01/2024 00:00
 To:
 09/30/2024 23:59
 Facility Name:

 Generated:
 10/10/2024 22:13
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1\_VOCNormal\_Ppmvdc\_1HTotal Operating Time:1,988.00 Hour(s)Non-Operating Time:220.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

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

From:07/01/2024 00:00To: 09/30/2024 23:59Facility Name:Malburg Generating StationGenerated:10/10/2024 22:14Location:Vernon, California



Tag Name:U1\_C0\_3HrRoll\_Ppmvdc\_1HTotal Operating Time:1,988.00 Hour(s)Non-Operating Time:220.00 Hour(s)Report Time:220.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 00:00To:09/30/2024 23:59Generated:10/10/2024 22:17

Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name:U1\_NOx4H\_Ppmvdc\_1HTotal Operating Time:1,988.00 Hour(s)Non-Operating Time:220.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 <b>To:</b>	09/30/2024 23:	59 Facility Name	e: Malburg	Generating	Station
Generated:	10/10/2024 22	2:18		Location:	Vernon,	California	
Tag Name:	U2_CO_LbPerHr	'_1M		<pre>SI = SampleInvalid,</pre>	* = Excess Emission		
Total Operat	ing Time:	1,594	.32 Hours				
Non-Operatin	g Time: 613.68	Hours	Report Time:	2,208.00 Hours			

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

# Startup/Shutdown Event Report

### U2 CO Startup/Shutdown Events



From:	07/01/2024 00:00	To:	09/30/2	2024 23:5	9 Facility Name:	Malburg	Generating S	Station
Generated:	10/10/2024 22:18				Location:	Vernon,	California	
Tag Name:	U2_CO_LbPerHr_1M				SI = SampleInvalid, * =	Excess Emissior	1	
Total Onera	tina Time:	1 5 9/	1 32	Hours				

Non-Operating Time: 613.68 Hours Report Time

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	%

### U2 NOx Startup/Shutdown



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



#### 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_LbPer	Hr_1M			SI = SampleInvalid, * = E	xcess Emission	1	
Total Opera	tina Time:	1.594	.32 Ноц	rs				

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

Invalid Event Period Reason Action Duration in Minute(s) Begin/End 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 <b>To:</b>	09/30/2024 23	:59 Facility Name	e: Malburg Generating Station
Generated:	10/10/2024 22:	25		Location:	Vernon, California
Tag Name:	U2_VOC_LbPerHr	<u>1</u> M		<pre>SI = SampleInvalid,</pre>	* = Excess Emission
Total Operat	ting Time:	1,594.	32 Hours		
Non-Operatir	ng 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	

# Startup/Shutdown Event Report

#### U2 VOC Startup/Shutdown Events



From:	07/01/2024 00:00	To:	09/30/20	24 23:59	Facility Name:	Malburg	Generating	Station
Generated:	10/10/2024 22:25				Location:	Vernon,	California	
Tag Name:	U2_VOC_LbPerHr_1M	1			SI = SampleInvalid, * =	Excess Emission	1	
Total Opera	ting Time:	1,594	.32 н	ours				

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

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

#### Unit 2 - CO ppmvdc 1-hour during Normal Operation

 From:
 07/01/2024 00:00
 To:
 09/30/2024 23:59
 Facility Name:

 Generated:
 10/10/2024 22:27
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2\_CONormal\_Ppmvdc\_1HTotal Operating Time:1,603.00 Hour(s)Non-Operating Time:605.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

#### Unit 2 - NOx ppmvdc 1-hour during Normal Operation

 From:
 07/01/2024 00:00
 To:
 09/30/2024 23:59
 Facility Name:

 Generated:
 10/10/2024 22:28
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2\_NOxNormal\_Ppmvdc\_1HTotal Operating Time:1,603.00 Hour(s)Non-Operating Time:605.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

#### Unit 2 - VOC ppmvdc 1-hour during Normal Operation

07/01/2024 00:00 To: 09/30/2024 23:59 Facility Name: From: **Generated:** 10/10/2024 22:28

Malburg Generating Station Vernon, California



U2\_VOCNormal\_Ppmvdc\_1H Tag Name: **Total Operating Time:** 1,603.00 Hour(s) Non-Operating Time: 605.00 Hour(s) Report Time: 2,208.00 Hour(s)

No Exclusions Allowed

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

Total Operating Time:	1,603.00 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 %

Location:

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

From:07/01/2024 00:00To: 09/30/2024 23:59Facility Name:Malburg Generating StationGenerated:10/10/2024 22:29Location:Vernon, California



Tag Name:U2\_CO\_3HrRoll\_Ppmvdc\_1HTotal Operating Time:1,603.00 Hour(s)Non-Operating Time:605.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 00:00To:09/30/2024 23:59Generated:10/10/2024 22:27

Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name:U2\_NOx4H\_Ppmvdc\_1HTotal Operating Time:1,603.00 Hour(s)Non-Operating Time:605.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %