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January 30, 2023

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Subject: 2022 Q4 Compliance Report
October 1, 2022, through December 31, 2022
Malburg Generating Station (01-AFC-25C)

Dr. Ali,

Attached please find the Quarterly Compliance Report for the Malburg Generating Station (01-AFC-25C), covering the operational period of October 1, 2022, through December 31, 2022. This report addresses all quarterly requirements identified in the Final Commission Decision for the Malburg Generating Station (TN #28746), as most recently amended on June 20, 2019 by the Errata to Staff Analysis of Petition to Amend the Final Commission Decision (TN #228444).

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

Sincerely,

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

Enclosure: MGS 2022 Q4 Compliance Report

Malburg Generating Station Quarterly Compliance Report (Fourth Quarter 2022)

Submitted to
California Energy Commission

Submitted by
City of Vernon, Public Utilities Department

January 30, 2023

Document no: da8881fa_23012514
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Contents

Appendices

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Acronyms and Abbreviations

CEC	California Energy Commission
CEMS	continuous emissions monitoring system
CO	carbon monoxide
COC	Conditions of Certification
CTG	combustion turbine generator
DAHS	data acquisition and handling system
gr/scf	grains per standard cubic foot
HRSG	heat recovery steam generator
lb/day	pounds per day
lb/hr	pounds per hour
MGS	Malburg Generating Station
NH_3	ammonia
NOx	nitrogen oxides
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
ppm	parts per million
ppmv	parts per million by volume
ppmw	parts per million by weight
QCR	Quarterly Compliance Report
RECLAIM	Regional Clean Air Incentives Market
SCAQMD	South Coast Air Quality Management District
SOx	sulfur oxides
STG	steam turbine generator
TDS	total dissolved solids
VOC	volatile organic compound

1. Introduction

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

1.1 Project Location and Description

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

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

1.2 Organization of the Quarterly Compliance Report

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

2. Required Quarterly Compliance Report Documentation

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

Table 2-1. Required Quarterly Compliance Report Documentation

Condition of Certification	Response
AQ-C6	The weekly total dissolved solids (TDS) results for the fourth quarter of 2022 are provided in Appendix A, Table 2; the weekly sample reports collected for the same period are provided in Appendix B.
AQ-C7	Daily particulate matter with aerodynamic diameter less than or equal to 10 microns (PM_{10}) emissions from cooling tower operation during the fourth quarter of 2022 are provided in Appendix A, Tables 3 through 5. As shown, emissions were below the specified limit of 6.2 pounds per day (lb/day).
AQ-C8	Testing times for the diesel-fired emergency firewater pump during the fourth quarter of 2022 are provided in Appendix C, Table 2. MGS refrained from testing the diesel-fired emergency firewater pump in the same hour the CTGs were either started or shutdown.
AQ-C9	The CTG startup and shutdown details for the fourth quarter of 2022, including the duration and date of occurrence, are provided in Appendix C, Table 1.
AQ-C11	All ammonia (NH_3), nitrogen oxides (NOx), sulfur oxides (SOx), carbon monoxide (CO), PM_{10}, and volatile organic compound (VOC) emissions from MGS operation during the fourth quarter of 2022 are provided in Appendix A, Table 1B. Annual emissions of these same pollutants are provided in Appendix A, Table 1A.[1]

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

Condition of Certification	Response
AQ-2	Low sulfur diesel fuel was last purchased on April 11, 2022 (second quarter). The fuel purchase record is provided in Appendix D and demonstrates that the fuel does not contain sulfur compounds in excess of 15 parts per million by weight (ppmw).
AQ-3	See the response for COC AQ-2.
AQ-5	Monthly emissions of CO, PM_{10}, particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), VOC, and SOx from CTG and duct burner operation during the fourth quarter of 2022 are presented in Appendix A, Tables 7 through 9. Fuel usage for each turbine-duct burner pair is provided in Appendix A, Table 6. As shown, emissions were below the monthly limits specified in Condition A63.4 of the site's Title V Permit.
AQ-6	See the response for COC AQ-C9.
AQ-9	See the response for COC AQ-C11. Additionally, quarterly NOx excess emission reports from the data acquisition and handling system (DAHS) are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected NOx emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 parts per million by volume (ppmv). All continuous emissions monitoring system (CEMS) data for MGS' CTGs are stored electronically onsite.
AQ-10	See the response for COC AQ-C11. Additionally, quarterly CO excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected CO emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 ppmv. All CEMS data for MGS' CTGs are stored electronically onsite.
AQ-11	See the response for COC AQ-C11. Additionally, quarterly VOC excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected VOC emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 ppmv. All CEMS data for MGS' CTGs are stored electronically onsite.
AQ-12	See the response for COC AQ-C11. Additionally, compliance with the specified limit of 5 parts per million (ppm) is primarily demonstrated through annual or quarterly source testing. The most recent NH_3 compliance source test, performed on November 1, 2022 with results submitted to the CEC on November 16, 2022, indicated compliance with the emission limits for both CTGs (0.6 ppm for CTG 1 and 0.5 ppm for CTG 2). NH_3 emissions are also calculated via the CEMS on an hourly basis and confirmed to comply with the NH_3 concentration limit of 5 ppm.
AQ-13	See the response for COC AQ-C11. Additionally, the most recent triennial compliance source test, performed in July 2022, indicated compliance with the Rule 475 particulate matter emission limits of 5 kilograms per hour (11 pounds per hour [lb/hr]) or 23 milligrams per cubic meter (0.01 grain per standard cubic foot [gr/scf]) for both CTGs (0.67 lb/hr and 0.0003 gr/scf for CTG 1 and 1.83 lb/hr and 0.0007 gr/scf for CTG 2).
AQ-14	See the response for COC AQ-2.
AQ-15	Quarterly hours of operation for the diesel-fired emergency firewater pump are provided in Appendix A, Table 10. As shown, the fourth quarter 2022 hours for maintenance and testing did not exceed 50 hours and the total operational hours did not exceed 200 hours.
AQ-27	See the response for COC AQ-5. As shown, fuel consumption per turbine-duct burner pair did not exceed the specified limit of 405 million cubic feet per month.
AQ-32	The NOx Regional Clean Air Incentives Market (RECLAIM) annual emission allocation information for the MGS facility, received from the SCAQMD for compliance year 2022 – 2023, is provided in Appendix F.
AQ-36	See the responses for COCs AQ-5 and AQ-6.

Appendix A
MGS Emission Calculations

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

Reporting Period: **Quarter 4 2022**

Table 1A. Annual Emissions - Calendar Year 2022 [1]

Source	Annual Emissions (lb/year) NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
CTG 1 & Duct Burner	13,439	4,971	2,856	520	11,153	17,058
CTG 2 & Duct Burner	14,534	5,042	3,041	550	11,873	18,149
Cooling Tower	--	--	--	--	452	--
Diesel Firewater Pump	128	3.7	0.9	0.1	0.8	--
Total	**28,101**	**10,016**	**5,898**	**1,071**	**23,479**	**35,207**

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

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

Source	Quarterly Emissions (lb/quarter) NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
CTG 1 & Duct Burner	2,969	1,053	629	114	2,456	3,764
CTG 2 & Duct Burner	3,693	1,292	778	140	3,038	4,640
Cooling Tower	--	--	--	--	120	--
Diesel Firewater Pump	34.7	1.0	0.3	0.0	0.2	--
Total	**6,697**	**2,346**	**1,407**	**254**	**5,615**	**8,404**

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 2

Reporting Period: **Quarter 4 2022**

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

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

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

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

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 3

Reporting Period: **October 2022**

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

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

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

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

Constants

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

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

[2] Per COC AQ-C4.

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

Cooling Tower Daily PM_{10} Emissions

Date	Circulation Rate (gal/day) [1]	TDS (ppm)	PM_{10} Emissions (lb/day)	Above 6.2 lb/day PM_{10} Limit? [2]
10/1/2022	38,880,000	4,080	1.32	No
10/2/2022	38,880,000	4,520	1.46	No
10/3/2022	38,880,000	4,520	1.46	No
10/4/2022	38,880,000	4,520	1.46	No
10/5/2022	38,880,000	4,520	1.46	No
10/6/2022	38,880,000	4,520	1.46	No
10/7/2022	38,880,000	4,520	1.46	No
10/8/2022	38,880,000	4,520	1.46	No
10/9/2022	38,880,000	4,680	1.52	No
10/10/2022	38,880,000	4,680	1.52	No
10/11/2022	38,880,000	4,680	1.52	No
10/12/2022	38,880,000	4,680	1.52	No
10/13/2022	38,880,000	4,680	1.52	No
10/14/2022	38,880,000	4,680	1.52	No
10/15/2022	38,880,000	4,680	1.52	No
10/16/2022	38,880,000	4,120	1.33	No
10/17/2022	38,880,000	4,120	1.33	No
10/18/2022	38,880,000	4,120	1.33	No
10/19/2022	38,880,000	4,120	1.33	No
10/20/2022	38,880,000	4,120	1.33	No
10/21/2022	38,880,000	4,120	1.33	No
10/22/2022	38,880,000	4,120	1.33	No
10/23/2022	38,880,000	3,900	1.26	No
10/24/2022	38,880,000	3,900	1.26	No
10/25/2022	38,880,000	3,900	1.26	No
10/26/2022	38,880,000	3,900	1.26	No
10/27/2022	38,880,000	3,900	1.26	No
10/28/2022	38,880,000	3,900	1.26	No
10/29/2022	38,880,000	3,900	1.26	No
10/30/2022	38,880,000	3,800	1.23	No
10/31/2022	38,880,000	3,800	1.23	No

[1] Maximum daily circulation rate conservatively used to estimate PM_{10} emissions when the cooling tower is operated for any part of the day. Circulation rate is zero for days the cooling tower is not operated at all.

[2] Daily emissions limit established in COC AQ-C7.

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 4

Reporting Period: **November 2022**

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

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

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

Methodology (per Condition of Certification [COC] AQ-C7)
PM_{10} Emissions (lb/day) = Circulation Rate (gal/day) x Density of Water (lb/gal) x Total Dissolved Solids (ppm) / 1,000,000 x Drift Factor (%) / 100 x Correction Factor

Constants

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

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

[2] Per COC AQ-C4.
[3] Source: SPX Cooling Technologies' Cooling Tower Drift Mass Distribution.

Cooling Tower Daily PM_{10} Emissions

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

[1] Maximum daily circulation rate conservatively used to estimate PM_{10} emissions when the cooling tower is operated for any part of the day. Circulation rate is zero for days the cooling tower is not operated at all.

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

[2] Daily emissions limit established in COC AQ-C7.

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 5

Reporting Period: **December 2022**

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

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

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

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

Constants

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

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

[2] Per COC AQ-C4.

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

Cooling Tower Daily PM_{10} Emissions

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

[1] Maximum daily circulation rate conservatively used to estimate PM_{10} emissions when the cooling tower is operated for any part of the day. Circulation rate is zero for days the cooling tower is not operated at all.

[2] Daily emissions limit established in COC AQ-C7.

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

Reporting Period: **Quarter 4 2022**

Table 6. Monthly Turbine-Duct Burner Fuel Flow

Source	October Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	November Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	December Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]
CTG 1	168.0		159		77	
CTG 1 Duct Burner	1.88		1.52		1.93	
Total CTG 1 & Duct Burner	**170**	**No**	**160**	**No**	**78**	**No**
CTG 2	101		158		242	
CTG 2 Duct Burner	0.40		1.34		3.00	
Total CTG 2 & Duct Burner	**101**	**No**	**159**	**No**	**245**	**No**

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

Table 7. Monthly Emissions - October 2022

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,224	444	261	47	1,022	1,563
CTG 2 & Duct Burner	739	243	155	28	608	924
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

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

[3] Monthly NH_3 emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.
[4] Monthly emission limits are per COC AQ-5.

Table 8. Monthly Emissions - November 2022

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,196	424	246	45	963	1,470
CTG 2 & Duct Burner	1,217	499	245	45	958	1,461
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

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

[3] Monthly NH_3 emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.
[4] Monthly emission limits are per COC AQ-5.

Table 9. Monthly Emissions - December 2022

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	548.15	185	121	21.9	472	732
CTG 2 & Duct Burner	1,737.23	551	377	67.4	1,472	2,254
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

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

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

[3] Monthly NH_3 emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.

[4] Monthly emission limits are per COC AQ-5.

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 10

Reporting Peri Quarter 4 2022

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

Emission Factors

Pollutant	Emission Factor (lb/Mgal)	Reference
NOx	469	Emission factor provided in the facility's Title V Permit.
CO	13.62	Emission factor converted from the factor provided in the facility's Title V Permit (0.4 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
VOC	3.41	Emission factor converted from the factor provided in the facility's Title V Permit (0.1 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
SOx	0.21	Default for Diesel/Distillate Oil, ICEs given in the SCAQMD's Combustion Default Emission Factors - January 2022.
$PM_{10}/PM_{2.5}$	3.065	Emission factor converted from the factor provided in the facility's Title V Permit (0.09 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).

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

Month	Monthly Hours of Operation [1]			Fuel Usage	Monthly Emissions (lb/month)				
	Maintenance	Testing	Emergency	(gal/month) [2]	NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$
January	0.0	2.5	0.0	28.0	13.1	0.38	0.10	0.01	0.09
February	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07
March	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07
April	0.0	1.9	0.0	21.3	10.0	0.29	0.07	0.00	0.07
May	0.0	1.2	0.0	13.4	6.3	0.18	0.05	0.00	0.04
June	0.0	1.6	0.0	17.9	8.4	0.24	0.06	0.00	0.05
July	0.5	2.0	0.0	28.0	13.1	0.38	0.10	0.01	0.09
August	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07
September	0.0	2.1	0.0	23.5	11.0	0.32	0.08	0.00	0.07
October	0.0	2.5	0.0	28.0	13.1	0.38	0.10	0.01	0.09
November	0.0	2.1	0.0	23.5	11.0	0.32	0.08	0.00	0.07
December	0.0	2.0	0.0	22.4	10.51	0.31	0.08	0.00	0.07
Q1 Total	**0.0**	**6.5**	**0.0**	**72.8**	**34.1**	**0.99**	**0.25**	**0.02**	**0.22**
Q2 Total	**0.0**	**4.7**	**0.0**	**52.6**	**24.7**	**0.72**	**0.18**	**0.01**	**0.16**
Q3 Total	**0.5**	**6.1**	**0.0**	**73.9**	**34.7**	**1.0**	**0.25**	**0.02**	**0.23**
Q4 Total	**0.0**	**6.6**	**0.0**	**73.9**	**34.7**	**1.0**	**0.3**	**0.0**	**0.2**
Annual Total	**0.5**	**23.9**	**0.0**	**273.3**	**128.2**	**3.7**	**0.9**	**0.1**	**0.8**
Annual Limit for Maintenance and Testing [3]			50						
Total Annual Limit [3]			200						
Exceeds Limits?			No						

[1] Monthly hours of operation calculated from Device 385/403 run timer readings.
[2] Fuel usage (gal/month) calculated by multiplying the hours of operation by the unit's maximum fuel throughput (11.2 gal/hour).
[3] Annual limits for hours of operation are per Condition of Certification (COC) AQ-15.

Appendix B
Cooling Tower Blowdown Reports

POSITIVE
LAB SERVICE

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

October 05, 2022

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

Report No.: 2209247
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 27, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

File #:74548
Report Date: 10/05/22
Submitted: 09/27/22
PLS Report No.: 2209247

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2209247-01) Sampled: 09/27/22 09:25 Received: 09/27/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4080**		1	mg/L	5.0	SM 2540C	10/03/22	10/04/22	vc	BJ20442

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ20442 - -										
Blank	**Prepared: 10/03/22 Analyzed: 10/04/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 10/03/22 Analyzed: 10/04/22**									
Total Dissolved Solids	56.0	5.0	mg/L	50.00		112	80-120			
Duplicate **Source: 2209247-01**	**Prepared: 10/03/22 Analyzed: 10/04/22**									
Total Dissolved Solids	4240	5.0	mg/L		4080			3.72	5	

Notes and Definitions

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

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

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 9.27.22 PAGE: 1 OF 1

FILE NO.: LAB NO.:

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

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

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 0.0°C

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

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	9.27.22	0925	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA | Received by (Signature & Name): John Barie | Date: 9.27.22 | Time: 0925

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 9.27.22 1020

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

POSITIVE
LAB SERVICE

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

October 12, 2022

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

Report No.: 2210041
Project Name: Malburg Generating Station

Dear Matt Richards,

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

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 10/12/22
Submitted: 10/05/22
PLS Report No.: 2210041

Project: Malburg Generating Station

Sample ID: Cooling Tower Blowdown Water (2210041-01) Sampled: 10/05/22 09:20 Received: 10/05/22

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

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ21225 - -										
Blank	**Prepared: 10/11/22 Analyzed: 10/12/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 10/11/22 Analyzed: 10/12/22**									
Total Dissolved Solids	40.0	5.0	mg/L	50.00		80.0	80-120			
Duplicate **Source: 2210101-01**	**Prepared: 10/11/22 Analyzed: 10/12/22**									
Total Dissolved Solids	4710	5.0	mg/L		4680			0.710	5	

Notes and Definitions

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

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 10.5.22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 220041

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | OBSERVED TEMP 1.4°C

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

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

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	10.5.22	0920	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA | Received by (Signature & Name): John Barie | Date: 10.5.22 | Time: 0920

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 10.5.22 1045

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

POSITIVE
LAB SERVICE

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

October 14, 2022

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

Report No.: 2210101
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on October 10, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 10/14/22
Submitted: 10/10/22
PLS Report No.: 2210101

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2210101-01) Sampled: 10/10/22 08:25 Received: 10/10/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4680**		1	mg/L	5.0	- SM 2540C	10/11/22	10/12/22	vc	BJ21225

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ21225 - -										
Blank	**Prepared: 10/11/22 Analyzed: 10/12/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 10/11/22 Analyzed: 10/12/22**									
Total Dissolved Solids	40.0	5.0	mg/L	50.00		80.0	80-120			
Duplicate **Source: 2210101-01**	**Prepared: 10/11/22 Analyzed: 10/12/22**									
Total Dissolved Solids	4710	5.0	mg/L		4680			0.710	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 10/10/22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2210101

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

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

OBSERVED TEMP 1.1°C

CORRECTED TEMP 0.9°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

THERMO ID: 66

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	10/10/22	0825	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MT Received by (Signature & Name): For John Barie Date: 10/10/22 Time: 0825

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 10/10/22 1045

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

POSITIVE
LAB SERVICE

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

October 25, 2022

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

Report No.: 2210192
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on October 18, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 10/25/22
Submitted: 10/18/22
PLS Report No.: 2210192

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2210192-01) Sampled: 10/18/22 08:40 Received: 10/18/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4120**		1	mg/L	5.0	- SM 2540C	10/24/22	10/25/22	vc	BJ22517

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ22517 - -										
Blank	**Prepared: 10/24/22 Analyzed: 10/25/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 10/24/22 Analyzed: 10/25/22**									
Total Dissolved Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate **Source: 2210232-01**	**Prepared: 10/24/22 Analyzed: 10/25/22**									
Total Dissolved Solids	3920	5.0	mg/L		3900			0.640	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 10/18/22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 22 10192

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | ANALYSES REQUESTED | OBSERVED TEMP 1.3°C

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

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

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	10/18/22	0940	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA | Received by (Signature & Name): For Jombar | Date: 10/18/22 | Time: 0840

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 10/18/22 1155

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

POSITIVE
LAB SERVICE

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

October 28, 2022

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

Report No.: 2210232
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on October 24, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

File #:74548
Report Date: 10/28/22
Submitted: 10/24/22
PLS Report No.: 2210232

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 (2210232-01) Sampled: 10/24/22 07:55 Received: 10/24/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3900**		1	mg/L	5.0	- SM 2540C	10/24/22	10/25/22	vc	BJ22517

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ22517 - -										
Blank	**Prepared: 10/24/22 Analyzed: 10/25/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 10/24/22 Analyzed: 10/25/22**									
Total Dissolved Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate **Source: 2210232-01**	**Prepared: 10/24/22 Analyzed: 10/25/22**									
Total Dissolved Solids	3920	5.0	mg/L		3900			0.640	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 10.24.22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 221022

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | ANALYSES REQUESTED | OBSERVED TEMP 1.3°C

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

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

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	10.24.22	0755	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA | Received by (Signature & Name): JB John Barie | Date: 10.24.22 | Time: 0755

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 10.24.22 0855

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

POSITIVE
LAB SERVICE

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

November 08, 2022

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

Report No.: 2211016
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on November 02, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2211016-01) Sampled: 11/02/22 08:30 Received: 11/02/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3800**		1	mg/L	5.0	- SM 2540C	11/03/22	11/04/22	vc	BK20723

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BK20723 - -										
Blank	**Prepared: 11/03/22 Analyzed: 11/04/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 11/03/22 Analyzed: 11/04/22**									
Total Dissolved Solids	45.0	5.0	mg/L	50.00		90.0	80-120			
Duplicate **Source: 2211016-01**	**Prepared: 11/03/22 Analyzed: 11/04/22**									
Total Dissolved Solids	3790	5.0	mg/L		3800			0.483	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 11.2.22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2211016

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | OBSERVED TEMP 1.4°C

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

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

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	11.2.22	0830	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA | Received by (Signature & Name): | Date: 11.2.22 | Time: 0830

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 11.2.22 0905

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

POSITIVE
LAB SERVICE

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

November 14, 2022

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

Report No.: 2211085
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on November 07, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 11/14/22
Submitted: 11/07/22
PLS Report No.: 2211085

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2211085-01) Sampled: 11/07/22 11:10 Received: 11/07/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3980**		1	mg/L	5.0	- SM 2540C	11/10/22	11/11/22	vc	BK21119

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BK21119 - -										
Blank	**Prepared: 11/10/22 Analyzed: 11/11/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 11/10/22 Analyzed: 11/11/22**									
Total Dissolved Solids	44.0	5.0	mg/L	50.00		88.0	80-120			
Duplicate **Source: 2211085-01**	**Prepared: 11/10/22 Analyzed: 11/11/22**									
Total Dissolved Solids	4170	5.0	mg/L		3980			4.58	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 11.7.22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 224085

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

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

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 0.7°C

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 66

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	11.7.22	1110	COOLING TOWER BLOWDOWN	X				N	1	P	X								

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

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time: 11.7.22 1110

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 11.8.22 0730

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

POSITIVE
LAB SERVICE

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

December 05, 2022

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

Report No.: 2211343
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on November 23, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 12/05/22
Submitted: 11/23/22
PLS Report No.: 2211343

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2211343-01) Sampled: 11/23/22 08:25 Received: 11/23/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4220**		1	mg/L	5.0	- SM 2540C	11/30/22	12/01/22	vc	BL20526

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BL20526 - -										
Blank	**Prepared: 11/30/22 Analyzed: 12/01/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 11/30/22 Analyzed: 12/01/22**									
Total Dissolved Solids	48.0	5.0	mg/L	50.00		96.0	80-120			
Duplicate **Source: 2211367-01**	**Prepared: 11/30/22 Analyzed: 12/01/22**									
Total Dissolved Solids	4350	5.0	mg/L		4550			4.43	5	

Notes and Definitions

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

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

Rick Owen Parker

Authorized Signature(s)

122672

POSITIVE LAB SERVICE

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

CHAIN OF CUSTODY AND ANALYSIS REQUEST

DATE: 11.23.22 PAGE 1 OF 1

AIRBILL NO:

LOG BOOK NO. _____ FILE NO. _____ LAB NO. 221343

CLIENT NAME: CV

Project Name/No: Building Cleaning Station Weekly

P.O. NO.

ADDRESS:

PROJECT MANAGER: Matt Richards PHONE NO: FAX NO:

SAMPLER NAME: Tom Bode (Printed) (Signature)

TAT (Analytical Turn Around Time): 0 = Same Day; 1 = 1 Day; 2 = 2 Days; 3 = 3 Days; N = Normal (5-7 Working Days)

CONTAINER TYPES: B = Brass, E = Encore, G = Glass, P = Plastic, V = VOA Vial, O = Other:

UST Project: Y N - Global ID# ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

ANALYSES REQUESTED:

OBSERV. TEMP: 1.9°C
CORREC. TEMP: 1.7°C
THERMO ID: 66

PRESERVATIVE:

REMARKS:

	SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE		SAMPLE CONDITION/ CONTAINER /COMMENTS:
1		11.23.22	0825	Loading Zone Blenders	X				2	1	P	X	
2													
3													
4													
5													
6													
7													
8													
9													
10													

Relinquished By: (Signature and Printed Name) MA	Received By: (Signature and Printed Name) Tom Bode	Date: 11.23.22	Time: 0825
Relinquished By: (Signature and Printed Name)	Received By: (Signature and Printed Name)	Date:	Time:
Relinquished By: (Signature and Printed Name)	Received By: (Signature and Printed Name)	Date:	Time:

SPECIAL INSTRUCTIONS: Arrived at the lab 11.23.22 0935

SAMPLE DISPOSITION:

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

By _____ Date _____

PRESERVATIVE: 1-HNO_3, 2-H_2SO_4, 3-HCL, 4-Zinc Acetate, 5-NaOH, 6-NH_4 Buffer, 7-Other

LAB COPY

POSITIVE
LAB SERVICE

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

December 05, 2022

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

Report No.: 2211367
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on November 29, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 12/05/22
Submitted: 11/29/22
PLS Report No.: 2211367

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2211367-01) Sampled: 11/29/22 09:25 Received: 11/29/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4550**		1	mg/L	5.0	- SM 2540C	11/30/22	12/01/22	vc	BL20526

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BL20526 - -										
Blank	**Prepared: 11/30/22 Analyzed: 12/01/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 11/30/22 Analyzed: 12/01/22**									
Total Dissolved Solids	48.0	5.0	mg/L	50.00		96.0	80-120			
Duplicate **Source: 2211367-01**	**Prepared: 11/30/22 Analyzed: 12/01/22**									
Total Dissolved Solids	4350	5.0	mg/L		4550			4.43	5	

Notes and Definitions

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

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

Rick Owen Parker

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 11.29.22 PAGE: 1 OF 1
FILE NO.: _____ LAB NO.: 221367

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

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

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 2.8°C

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

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	11.29.22	0925	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA | Received by (Signature & Name): JF Tombaugh | Date: 11.29.22 | Time: 0925

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 11.29.22 1030

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

POSITIVE
LAB SERVICE

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

December 12, 2022

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

Report No.: 2212054
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on December 06, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 12/12/22
Submitted: 12/06/22
PLS Report No.: 2212054

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2212054-01) Sampled: 12/06/22 07:30 Received: 12/06/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4360**		1	mg/L	5.0	- SM 2540C	12/07/22	12/08/22	vc	BL20907

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BL20907 - -										
Blank	**Prepared: 12/07/22 Analyzed: 12/08/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 12/07/22 Analyzed: 12/08/22**									
Total Dissolved Solids	52.0	5.0	mg/L	50.00		104	80-120			
Duplicate **Source: 2212054-01**	**Prepared: 12/07/22 Analyzed: 12/08/22**									
Total Dissolved Solids	4220	5.0	mg/L		4360			3.15	5	

Notes and Definitions

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

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

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 12-6-22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 22/2054

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | OBSERVED TEMP 1.3°C

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

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

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	12-6-22	0730	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
NA	JB John Barie	12-6-22	0730
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 12-6-22 1005

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

POSITIVE
LAB SERVICE

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

December 22, 2022

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

Report No.: 2212149
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on December 12, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 12/22/22
Submitted: 12/12/22
PLS Report No.: 2212149

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2212149-01) Sampled: 12/12/22 08:20 Received: 12/12/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3970**		1	mg/L	5.0	- SM 2540C	12/15/22	12/16/22	vc	BL22034

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BL22034 - -										
Blank	**Prepared: 12/15/22 Analyzed: 12/16/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 12/15/22 Analyzed: 12/16/22**									
Total Dissolved Solids	55.0	5.0	mg/L	50.00		110	80-120			
Duplicate Source: 2212149-01	**Prepared: 12/15/22 Analyzed: 12/16/22**									
Total Dissolved Solids	3930	5.0	mg/L		3970			1.10	5	
Duplicate Source: 2212216-02	**Prepared: 12/15/22 Analyzed: 12/16/22**									
Total Dissolved Solids	5820	5.0	mg/L		6110			4.86	5	

Notes and Definitions

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

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 12-12-22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 22749

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058

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

SAMPLER NAME: JOHN BARIE | SIGNATURE:

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

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

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

AIRBILL NO:

OBSERVED TEMP 0.9°C

CORRECTED TEMP 0.2°C

THERMO ID: 61

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	12-12-22	0430	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): | Received by (Signature & Name): | Date: 12/12/22 | Time: 0820

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 12-12-22 1025

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

POSITIVE
LAB SERVICE

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

December 28, 2022

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

Report No.: 2212289
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on December 20, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 12/28/22
Submitted: 12/20/22
PLS Report No.: 2212289

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2212289-01) Sampled: 12/20/22 09:50 Received: 12/20/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4560**		1	mg/L	5.0	- SM 2540C	12/21/22	12/22/22	vc	BL22133

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BL22133 - -										
Blank	**Prepared: 12/20/22 Analyzed: 12/21/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 12/20/22 Analyzed: 12/21/22**									
Total Dissolved Solids	48.0	5.0	mg/L	50.00		96.0	80-120			
Duplicate **Source: 2212226-01**	**Prepared: 12/20/22 Analyzed: 12/21/22**									
Total Dissolved Solids	1790	5.0	mg/L		1730			3.29	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 12-20-22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 221189

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

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

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

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 60

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	12-20-22	0950	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA Received by (Signature & Name): JD Jom Barie Date: 12-20-22 Time: 0950

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 12-20-22 1145

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

POSITIVE
LAB SERVICE

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

January 04, 2023

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

Report No.: 2212342
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on December 27, 2022.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 01/04/23
Submitted: 12/27/22
PLS Report No.: 2212342

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2212342-01) Sampled: 12/27/22 08:10 Received: 12/27/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4280**		1	mg/L	5.0	- SM 2540C	12/29/22	12/30/22	vc	BA30424

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA30424 - -										
Blank	**Prepared: 12/29/22 Analyzed: 12/30/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 12/29/22 Analyzed: 12/30/22**									
Total Dissolved Solids	52.0	5.0	mg/L	50.00		104	80-120			
Duplicate **Source: 2212342-01**	**Prepared: 12/29/22 Analyzed: 12/30/22**									
Total Dissolved Solids	4420	5.0	mg/L		4280			3.22	5	

Notes and Definitions

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

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

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 12/22 PAGE: 1 OF 1
FILE NO.: LAB NO.: 221342

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

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

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

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

OBSERVED TEMP 1.4°C
CORRECTED TEMP: 12°C
THERMO ID: 66

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	12.27.22	0810	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): NA
Received by (Signature & Name): John Barie
Date: 12.27.22 Time: 0810 7045

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

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

SAMPLE DISPOSITION

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

SPECIAL INSTRUCTION:

Arrived at the lab 12.27.22 1045

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

Appendix C
Operation Logs

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

CTG 1

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

CTG 2

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

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

Malburg Generating Station
Appendix C, Table 2
Diesel Firewater Pump Testing Times
During Quarter 4, 2022

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

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

Appendix D
Diesel Fuel Oil Purchase Records

Invoice

INVOICE: 2100721-IN

INVOICE DATE: 4/11/2022
DUE DATE: 5/11/2022
SHIP DATE: 4/11/2022
SHIP VIA: 924
ORDER DATE: 4/1/2022
ORDER NUMBER: 2100721
CUSTOMER PO: 055.0002948
TERMS: N30
SALEPERSON: Todd Cripps
714-938-5714

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

PLEASE REMIT ALL PAYMENTS TO:
P.O. BOX 14237
ORANGE, CA 92863-1237

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

ACCT NO (Bill-to): 01-0001045

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

ACCT NO (Ship-to) 01-0001045 103L

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

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

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

Net Invoice:	1,903.63
Less Discount:	0.00
Freight:	0.00
Sales Tax:	190.52
Invoice Total:	2,094.15

- IN THE EVENT THAT THE ABOVE CHARGES ARE NOT PAID WHEN DUE, SC COMMERCIAL, LLC, DBA SC FUELS RESERVES THE RIGHT TO REFUSE FURTHER
- CHARGES TO THE ACCOUNT. A SERVICE CHARGE OF 1.5% PER MONTH{A.P.R. 18%} WILL APPLY TO ALL PAST DUE INVOICES.
- ERRORS IN PRICE, EXTENSION, AND ADDITION SUBJECT TO CORRECTION.
- It is the purchaser's responsibility to verify that all applicable taxes are being charged in accordance with fedral and state laws.
- Prices shown on this invoice reflect discounts received for Payment by Cash, Check, or Electronic Funds Transfer (EFT). Payment by other means is subject to a 3% surcharge.

ver. SCF20220420

Appendix E
Excess Emission Reports

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:38 **Location:** Vernon, California

Tag Name: U1_CO_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,192.00 Hours

Non-Operating Time: 1,016.00 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:38 **Location:** Vernon, California

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

Total Operating Time: 1,192.00 Hours

Non-Operating Time: 1,016.00 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:39 **Location:** Vernon, California

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

Total Operating Time: 1,192.00 Hours

Non-Operating Time: 1,016.00 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:39 **Location:** Vernon, California

Tag Name: U1_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,192.00 Hours

Non-Operating Time: 1,016.00 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:41 **Location:** Vernon, California

Tag Name: U1_VOC_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,192.00 Hours

Non-Operating Time: 1,016.00 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:41 **Location:** Vernon, California

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

Total Operating Time: 1,192.00 Hours

Non-Operating Time: 1,016.00 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 1 - CO ppmvdc 1-hour during Normal Operation

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:44 **Location:** Vernon, California

Tag Name: U1_CONormal_Ppmvdc_1H
Total Operating Time: 1,196.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,012.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,196.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

Unit 1 - NOx ppmvdc 1-hour during Normal Operation

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:44 **Location:** Vernon, California

Tag Name: U1_NOxNormal_Ppmvdc_1H
Total Operating Time: 1,196.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,012.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,196.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

Unit 1 - VOC ppmvdc 1-hour during Normal Operation

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:45 **Location:** Vernon, California

Tag Name: U1_VOCNormal_Ppmvdc_1H
Total Operating Time: 1,196.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,012.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,196.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Quad K Excess Emissions Report

U1 NOX 4-Hour Events

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:46 **Location:** Vernon, California

Tag Name: U1_NOx4H_Ppmvdc_1H
Total Operating Time: 1,196.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,012.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,196.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

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

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:47 **Location:** Vernon, California

Tag Name: U1_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 1,196.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,012.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,196.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Startup/Shutdown Event Report

U2 CO Startup/Shutdown Events

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:48 **Location:** Vernon, California

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

Total Operating Time: 1,496.73 Hours

Non-Operating Time: 711.27 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

U2 CO Startup/Shutdown Events

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:48 **Location:** Vernon, California
Tag Name: U2_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission
Total Operating Time: 1,496.73 Hours
Non-Operating Time: 711.27 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:49 **Location:** Vernon, California

Tag Name: U2_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,496.73 Hours

Non-Operating Time: 711.27 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:49 **Location:** Vernon, California

Tag Name: U2_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,496.73 Hours

Non-Operating Time: 711.27 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:50 **Location:** Vernon, California

Tag Name: U2_VOC_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,496.73 Hours

Non-Operating Time: 711.27 Hours Report Time: 2,208.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 01/09/2023 22:50 **Location:** Vernon, California

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

Total Operating Time: 1,496.73 Hours

Non-Operating Time: 711.27 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 2 - CO ppmvdc 1-hour during Normal Operation

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:51 **Location:** Vernon, California

Tag Name: U2_CONormal_Ppmvdc_1H
Total Operating Time: 1,504.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 704.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,504.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

Unit 2 - NOx ppmvdc 1-hour during Normal Operation

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:51 **Location:** Vernon, California

Tag Name: U2_NOxNormal_Ppmvdc_1H
Total Operating Time: 1,504.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 704.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,504.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

Unit 2 - VOC ppmvdc 1-hour during Normal Operation

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:52 **Location:** Vernon, California

Tag Name: U2_VOCNormal_Ppmvdc_1H
Total Operating Time: 1,504.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 704.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,504.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Quad K Excess Emissions Report

U2 NOX 4-Hour Events

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:52 **Location:** Vernon, California

Tag Name: U2_NOx4H_Ppmvdc_1H
Total Operating Time: 1,504.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 704.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,504.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

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

From: 10/01/2022 00:00 **To:** 12/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 01/09/2023 22:53 **Location:** Vernon, California

Tag Name: U2_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 1,504.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 704.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,504.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Appendix F
MGS RECLAIM Annual Emission Allocation Information

FACILITY PERMIT TO OPERATE
VERNON PUBLIC UTILITIES

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

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

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

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

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

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

Footnotes:

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

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

FACILITY PERMIT TO OPERATE
VERNON PUBLIC UTILITIES

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

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

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