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City of VERNON CALIFORNIA

April 30, 2024

NOTICE OF INTENT TO FILE
2024 Q1 Compliance Report for the
Malburg Generating Station (01-AFC-25C)

Dear Dr. Ali:

Attached please find the Quarterly Compliance Report for the Malburg Generating Station (01-AFC-25C), covering the operational period of January 1, 2024, through March 31, 2024. This report addresses all quarterly requirements identified in the Final Commission Decision for the Malburg Generating Station (TN #28746), as most recently amended on June 20, 2019, by the Errata to Staff Analysis of Petition to Amend the Final Commission Decision (TN #228444).

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

Thank you,

Todd Dusenberry
General Manager of Vernon Public Utilities

Copies: Lisa Umeda
Matt Richards
Document Control

Enclosure: MGS 2024 Q1 Compliance Report

Malburg Generating Station Quarterly Compliance Report (First Quarter 2024)

Submitted to
California Energy Commission

Submitted by
City of Vernon, Public Utilities Department

April 30, 2024

Document no: 240429074347_b28446c1
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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
CTGs	combustion turbine generators
DAHS	data acquisition and handling system
gr/scf	grain per standard cubic foot
HRSGs	heat recovery steam generators
lb/day	pounds per day
lb/hr	pounds per hour
MGS	Malburg Generating Station
NH_3	ammonia
NOx	nitrogen oxides
PM_{10}	particulate matter with aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with aerodynamic diameter less than or equal to 2.5 microns
ppm	parts per million
ppmv	parts per million by volume
ppmw	parts per million by weight
QCR	Quarterly Compliance Report
SCAQMD	South Coast Air Quality Management District
SOx	sulfur oxides
STG	steam turbine generator
TDS	total dissolved solids
VOC	volatile organic compound

1. Introduction

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

1.1 Project Location and Description

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

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

1.2 Organization of the Quarterly Compliance Report

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

2. Required Quarterly Compliance Report Documentation

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

Table 2-1. Required Quarterly Compliance Report Documentation

Condition of Certification	Response
AQ-C6	The weekly total dissolved solids (TDS) results for the first quarter of 2024 are provided in Appendix A, Table 2; the weekly sample reports collected for the same period are provided in Appendix B.
AQ-C7	Daily particulate matter with aerodynamic diameter less than or equal to 10 microns (PM_{10}) emissions from cooling tower operation during the first quarter of 2024 are provided in Appendix A, Tables 3 through 5. As shown, emissions were below the specified limit of 6.2 pounds per day (lb/day).
AQ-C8	Testing times for the diesel-fired emergency firewater pump during the first quarter of 2024 are provided in Appendix C, Table 2. MGS refrained from testing the diesel-fired emergency firewater pump in the same hour the CTGs were either started or shutdown.
AQ-C9	The CTG startup and shutdown details for the first quarter of 2024, including the duration and date of occurrence, are provided in Appendix C, Table 1.
AQ-C11	All ammonia (NH_3), nitrogen oxides (NOx), sulfur oxides (SOx), carbon monoxide (CO), PM_{10}, and volatile organic compound (VOC) emissions from MGS operation during the first quarter of 2024 are provided in Appendix A, Table 1.
AQ-2	Low sulfur diesel fuel was last purchased on March 20, 2024. The fuel purchase record is provided in Appendix D and demonstrates that the fuel does not contain sulfur compounds in excess of 15 parts per million by weight (ppmw).
AQ-3	See the response for COC AQ-2.

Condition of Certification	Response
AQ-5	Monthly emissions of CO, PM_{10}, particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), VOC, and SOx from CTG and duct burner operation during the first quarter of 2024 are presented in Appendix A, Tables 7 through 9. Fuel usage for each turbine-duct burner pair is provided in Appendix A, Table 6. As shown, emissions were below the monthly limits specified in Condition A63.4 of the site's Title V Permit.
AQ-6	See the response for COC AQ-C9.
AQ-9	See the response for COC AQ-C11. Additionally, quarterly NOx excess emission reports from the data acquisition and handling system (DAHS) are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected NOx emissions concentration for either CTG exceeded the emission concentration limit of 2.0 parts per million by volume (ppmv). All continuous emissions monitoring system (CEMS) data for MGS' CTGs are stored electronically onsite.
AQ-10	See the response for COC AQ-C11. Additionally, quarterly CO excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected CO emissions concentration for either CTG exceeded the emission concentration limit of 2.0 ppmv. All CEMS data for MGS' CTGs are stored electronically onsite.
AQ-11	See the response for COC AQ-C11. Additionally, quarterly VOC excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected VOC emissions concentration for either CTG exceeded the emission concentration limit of 2.0 ppmv. All CEMS data for MGS' CTGs are stored electronically onsite.
AQ-12	See the response for COC AQ-C11. Additionally, compliance with the specified limit of 5 parts per million (ppm) is primarily demonstrated through annual or quarterly source testing. The most recent NH_3 compliance source test was performed on March 13 and 14, 2024. Results will be submitted to the CEC within 60 days of the source test, as required. Prior to this testing event, CTG 1 NH_3 compliance source testing was performed on November 17, 2023, with results submitted to the CEC on November 28, 2023, and indicated compliance with the emission limit (0.5 ppm). Similarly, CTG 2 NH_3 compliance source testing was previously performed on May 16, 2023, with results submitted to the CEC on June 23, 2023, and indicated compliance with the emission limit (0.6 ppm). 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	Year-to-date hours of operation for the diesel-fired emergency firewater pump are provided in Appendix A, Table 10. As shown, the year-to-date 2024 hours for maintenance and testing did not exceed 50 hours and the total operational hours did not exceed 200 hours.
AQ-25	On March 18, 2024, the facility experienced a malfunction of the CEMS CO analyzer associated with CTG 1, thereby limiting the CEMS' ability to continuously measure CO concentrations as required. Although CTG 1 was offline at the time of the malfunction with no associated emissions, verbal notification of this hardware breakdown was provided to the South Coast Air Quality Management District (SCAQMD) on March 19, 2024. Repairs to the CO analyzer could not be completed within the allowable 96-hour time period, such that a one-time 96-hour extension was granted per SCAQMD Rule 218.2(e)(4). Verification of the site's eligibility for this extension was provided to SCAQMD following completion of the repairs. SCAQMD closed the report on March 26, 2024. Correspondence with SCAQMD regarding this matter is provided in Appendix F.
AQ-27	See the response for COC AQ-5. As shown, fuel consumption per turbine-duct burner pair did not exceed the specified limit of 405 million cubic feet per month.
AQ-36	See the responses for COCs AQ-5 and AQ-6.

Appendix A
MGS Emission Calculations

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 1

Reporting Period: Quarter 1 2024

Table 1. Quarterly Emissions - January 1, 2024 through March 31, 2024

Source	Quarterly Emissions (lb/quarter)					
	NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
CTG 1 & Duct Burner	3,569	1,293	765	139	2,993	4,541
CTG 2 & Duct Burner	924	320	200	36.0	781	1,181
Cooling Tower	--	--	--	--	122	--
Diesel Firewater Pump	32.0	0.9	0.2	0.0	0.2	0.1
Total	**4,525**	**1,614**	**966**	**175**	**3,896**	**5,723**

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 2

Reporting Period: **Quarter 1 2024**

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

Sampling Period		
Start Date	End Date	TDS (ppm)
12/31/2023	1/6/2024	4,120
1/7/2024	1/13/2024	4,280
1/14/2024	1/20/2024	3,600
1/21/2024	1/27/2024	3,940
1/28/2024	2/3/2024	3,550
2/4/2024	2/10/2024	5,630
2/11/2024	2/17/2024	2,890
2/18/2024	2/24/2024	5,630
2/25/2024	3/2/2024	3,910
3/3/2024	3/9/2024	5,310
3/10/2024	3/16/2024	4,490
3/17/2024	3/23/2024	4,900
3/24/2024	3/30/2024	4,450
3/31/2024	4/6/2024	4,210

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

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 3

Reporting Period: **January 2024**

Cooling Tower Total Dissolved Solids (TDS) Sampling Results

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

Sample Date	Period		TDS (ppm)
	Start Date	End Date	
1/5/2024	12/31/2023	1/6/2024	4,120
1/9/2024	1/7/2024	1/13/2024	4,280
1/15/2024	1/14/2024	1/20/2024	3,600
1/24/2024	1/21/2024	1/27/2024	3,940
1/30/2024	1/28/2024	2/3/2024	3,550

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

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

Constants

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

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

[2] Per COC AQ-C4.

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

Cooling Tower Daily PM_{10} Emissions

Date	Circulation Rate (gal/day) [1]	TDS (ppm)	PM_{10} Emissions (lb/day)	Above 6.2 lb/day PM_{10} Limit? [2]
1/1/2024	0	4,120	0.00	No
1/2/2024	38,880,000	4,120	1.33	No
1/3/2024	38,880,000	4,120	1.33	No
1/4/2024	0	4,120	0.00	No
1/5/2024	0	4,120	0.00	No
1/6/2024	0	4,120	0.00	No
1/7/2024	38,880,000	4,280	1.39	No
1/8/2024	38,880,000	4,280	1.39	No
1/9/2024	38,880,000	4,280	1.39	No
1/10/2024	38,880,000	4,280	1.39	No
1/11/2024	38,880,000	4,280	1.39	No
1/12/2024	38,880,000	4,280	1.39	No
1/13/2024	38,880,000	4,280	1.39	No
1/14/2024	38,880,000	3,600	1.17	No
1/15/2024	38,880,000	3,600	1.17	No
1/16/2024	38,880,000	3,600	1.17	No
1/17/2024	38,880,000	3,600	1.17	No
1/18/2024	38,880,000	3,600	1.17	No
1/19/2024	38,880,000	3,600	1.17	No
1/20/2024	38,880,000	3,600	1.17	No
1/21/2024	38,880,000	3,940	1.28	No
1/22/2024	38,880,000	3,940	1.28	No
1/23/2024	38,880,000	3,940	1.28	No
1/24/2024	38,880,000	3,940	1.28	No
1/25/2024	38,880,000	3,940	1.28	No
1/26/2024	38,880,000	3,940	1.28	No
1/27/2024	38,880,000	3,940	1.28	No
1/28/2024	38,880,000	3,550	1.15	No
1/29/2024	38,880,000	3,550	1.15	No
1/30/2024	38,880,000	3,550	1.15	No
1/31/2024	38,880,000	3,550	1.15	No

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

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

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 4

Reporting Period: **February 2024**

Cooling Tower Total Dissolved Solids (TDS) Sampling Results

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

Sample Date	Period		TDS (ppm)
	Start Date	End Date	
1/30/2024	1/28/2024	2/3/2024	3,550
2/8/2024	2/4/2024	2/10/2024	5,630
2/13/2024	2/11/2024	2/17/2024	2,890
2/20/2024	2/18/2024	2/24/2024	5,630
2/26/2024	2/25/2024	3/2/2024	3,910

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

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

Constants

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

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

[2] Per COC AQ-C4.

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

Cooling Tower Daily PM_{10} Emissions

Date	Circulation Rate (gal/day) [1]	TDS (ppm)	PM_{10} Emissions (lb/day)	Above 6.2 lb/day PM_{10} Limit? [2]
2/1/2024	38,880,000	3,550	1.15	No
2/2/2024	38,880,000	3,550	1.15	No
2/3/2024	38,880,000	3,550	1.15	No
2/4/2024	38,880,000	5,630	1.82	No
2/5/2024	38,880,000	5,630	1.82	No
2/6/2024	38,880,000	5,630	1.82	No
2/7/2024	38,880,000	5,630	1.82	No
2/8/2024	38,880,000	5,630	1.82	No
2/9/2024	38,880,000	5,630	1.82	No
2/10/2024	38,880,000	5,630	1.82	No
2/11/2024	38,880,000	2,890	0.94	No
2/12/2024	38,880,000	2,890	0.94	No
2/13/2024	38,880,000	2,890	0.94	No
2/14/2024	38,880,000	2,890	0.94	No
2/15/2024	38,880,000	2,890	0.94	No
2/16/2024	38,880,000	2,890	0.94	No
2/17/2024	38,880,000	2,890	0.94	No
2/18/2024	38,880,000	5,630	1.82	No
2/19/2024	38,880,000	5,630	1.82	No
2/20/2024	38,880,000	5,630	1.82	No
2/21/2024	38,880,000	5,630	1.82	No
2/22/2024	38,880,000	5,630	1.82	No
2/23/2024	38,880,000	5,630	1.82	No
2/24/2024	38,880,000	5,630	1.82	No
2/25/2024	38,880,000	3,910	1.27	No
2/26/2024	38,880,000	3,910	1.27	No
2/27/2024	38,880,000	3,910	1.27	No
2/28/2024	38,880,000	3,910	1.27	No
2/29/2024	38,880,000	3,910	1.27	No

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

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

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 5

Reporting Period: **March 2024**

Cooling Tower Total Dissolved Solids (TDS) Sampling Results

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

Sample Date [1]	Period		TDS (ppm)
	Start Date	End Date	
2/26/2024	2/25/2024	3/2/2024	3,910
3/5/2024	3/3/2024	3/9/2024	5,310
3/11/2024	3/10/2024	3/16/2024	4,490
3/19/2024	3/17/2024	3/23/2024	4,900
3/26/2024	3/24/2024	3/30/2024	4,450
4/2/2024	3/31/2024	4/6/2024	4,210

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

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

Constants

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

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

[2] Per COC AQ-C4.

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

Cooling Tower Daily PM_{10} Emissions

Date	Circulation Rate (gal/day) [1]	TDS (ppm) [2]	PM_{10} Emissions (lb/day)	Above 6.2 lb/day PM_{10} Limit? [3]
3/1/2024	38,880,000	3,910	1.27	No
3/2/2024	38,880,000	3,910	1.27	No
3/3/2024	38,880,000	5,310	1.72	No
3/4/2024	38,880,000	5,310	1.72	No
3/5/2024	38,880,000	5,310	1.72	No
3/6/2024	38,880,000	5,310	1.72	No
3/7/2024	38,880,000	5,310	1.72	No
3/8/2024	38,880,000	5,310	1.72	No
3/9/2024	38,880,000	5,310	1.72	No
3/10/2024	38,880,000	4,490	1.45	No
3/11/2024	38,880,000	4,490	1.45	No
3/12/2024	38,880,000	4,490	1.45	No
3/13/2024	38,880,000	4,490	1.45	No
3/14/2024	38,880,000	4,490	1.45	No
3/15/2024	38,880,000	4,490	1.45	No
3/16/2024	38,880,000	4,490	1.45	No
3/17/2024	38,880,000	4,900	1.59	No
3/18/2024	38,880,000	4,900	1.59	No
3/19/2024	38,880,000	4,900	1.59	No
3/20/2024	38,880,000	3,910	1.27	No
3/21/2024	38,880,000	3,910	1.27	No
3/22/2024	38,880,000	3,910	1.27	No
3/23/2024	38,880,000	4,900	1.59	No
3/24/2024	38,880,000	4,450	1.44	No
3/25/2024	38,880,000	4,450	1.44	No
3/26/2024	38,880,000	4,450	1.44	No
3/27/2024	38,880,000	4,450	1.44	No
3/28/2024	38,880,000	4,450	1.44	No
3/29/2024	38,880,000	4,450	1.44	No
3/30/2024	38,880,000	4,450	1.44	No
3/31/2024	38,880,000	4,210	1.36	No

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

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

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

Reporting Period: Quarter 1 2024

Table 6. Monthly Turbine-Duct Burner Fuel Flow

Source	January		February		March	
	Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]
CTG 1	199		207		89.5	
CTG 1 Duct Burner	1.22		0.15		0.02	
Total CTG 1 & Duct Burner	**201**	**No**	**207**	**No**	**89.6**	**No**
CTG 2	0.00		0.00		130	
CTG 2 Duct Burner	0.00		0.00		0.00	
Total CTG 2 & Duct Burner	**0.00**	**No**	**0.00**	**No**	**130**	**No**

[1] CTG and Duct Burner fuel flow data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' and 'All_12MonthSummary_GasUsage' RegPerfect Reports.

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

Table 7. Monthly Emissions - January 2024

Source	Monthly Emissions (lb/month) [1]					
	NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,517	620	309	56	1,207	1,836
CTG 2 & Duct Burner	0	0	0	0	0	0
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

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

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

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

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

Table 8. Monthly Emissions - February 2024

Source	Monthly Emissions (lb/month) [1]					
	NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,424	461	319	58	1,248	1,890
CTG 2 & Duct Burner	0	0	0	0	0	0
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

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

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

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

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

Table 9. Monthly Emissions - March 2024

Source	Monthly Emissions (lb/month) [1]					
	NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	628	212	138	25	539	815
CTG 2 & Duct Burner	924	320	200	36	781	1,181
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

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

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

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

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

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 10

Reporting Period: **Quarter 1 2024**

Methodology

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

Emission Factors

Pollutant	Emission Factor (lb/Mgal)	Reference
NOx	469	Emission factor provided in the facility's Title V Permit.
CO	13.62	Emission factor converted from the factor provided in the facility's Title V Permit (0.4 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
VOC	3.41	Emission factor converted from the factor provided in the facility's Title V Permit (0.1 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
SOx	0.21	Default for Diesel/Distillate Oil, ICEs given in the SCAQMD's Combustion Default Emission Factors - January 2022.
$PM_{10}/PM_{2.5}$	3.065	Emission factor converted from the factor provided in the facility's Title V Permit (0.09 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
NH_3	0.80	Default for diesel combustion equipment without an SNCR or SCR given in the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Reporting Procedures - June 2020.

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

Month	Monthly Hours of Operation [1]			Fuel Usage (gal/month) [2]	Monthly Emissions (lb/month)					
	Maintenance	Testing	Emergency		NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
January	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02
February	0.0	1.5	0.0	16.8	7.9	0.23	0.06	0.00	0.05	0.01
March	0.0	2.6	0.0	29.1	13.7	0.40	0.10	0.01	0.09	0.02
Q1 Total	**0.0**	**6.1**	**0.0**	**68.3**	**32.0**	**0.93**	**0.23**	**0.01**	**0.21**	**0.05**
Annual Total	**0.0**	**6.1**	**0.0**	**68.3**	**32.0**	**0.93**	**0.23**	**0.01**	**0.21**	**0.05**
Annual Limit for Maintenance and Testing [3]			50							
Total Annual Limit [3]			200							
Exceeds Limits?			No							

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

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

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

Appendix B
Cooling Tower Blowdown Reports

POSITIVE
LAB SERVICE

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

January 22, 2024

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

Report No.: 2401066
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 05, 2024.

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

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

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

Rick Owen Parker
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: 01/22/24
Submitted: 01/05/24
PLS Report No.: 2401066

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2401066-01) Sampled: 01/05/24 09:45 Received: 01/05/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4120**		1	mg/L	5.0	- SM 2540C	01/09/24	01/10/24	ss	BA41913

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA41913 - -										
Blank	**Prepared: 01/09/24 Analyzed: 01/10/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/09/24 Analyzed: 01/10/24**									
Total Dissolved Solids	59.0	5.0	mg/L	50.00		118	80-120			
Duplicate **Source: 2401031-01**	**Prepared: 01/09/24 Analyzed: 01/10/24**									
Total Dissolved Solids	1480	5.0	mg/L		1480			0.00	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:_____ PAGE: ____ OF____

FILE NO.:_____ LAB NO.: 2401066

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

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

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

SAMPLER NAME: JOHN BARIE **SIGNATURE:** **THERMO ID:** 6r

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									
	1-5-24	0945	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA Received by (Signature & Name): [illegible] Date: 1-5-24 Time: 0945

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 1-5-24 1015

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

POSITIVE
LAB SERVICE

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

January 25, 2024

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

Report No.: 2401081
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

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

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

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

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

Rick Owen Parker
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: 01/25/24
Submitted: 01/09/24
PLS Report No.: 2401081

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2401081-01) Sampled: 01/09/24 08:40 Received: 01/09/24

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	01/15/24	01/16/24	ss	BA42424

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA42424 - -										
Blank	**Prepared: 01/15/24 Analyzed: 01/16/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/15/24 Analyzed: 01/16/24**									
Total Dissolved Solids	56.0	5.0	mg/L	50.00		112	80-120			
Duplicate **Source: 2401087-01**	**Prepared: 01/15/24 Analyzed: 01/16/24**									
Total Dissolved Solids	2040	5.0	mg/L		2040			0.00	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 Tarlis

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 1-9-24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2401081

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

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

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

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 66

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	1-9-24	0840	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
NA	John Barie	1.9.24	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:

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

Arrived at the lab 1.9.24 1030

POSITIVE LAB SERVICE

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

January 25, 2024

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

Report No.: 2401112
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 15, 2024.

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

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

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

Rick Owen Parlin
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: 01/25/24
Submitted: 01/15/24
PLS Report No.: 2401112

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2401112-01) Sampled: 01/15/24 08:30 Received: 01/15/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3600**		1	mg/L	5.0	- SM 2540C	01/15/24	01/16/24	ss	BA42424

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA42424 - -										
Blank	**Prepared: 01/15/24 Analyzed: 01/16/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/15/24 Analyzed: 01/16/24**									
Total Dissolved Solids	56.0	5.0	mg/L	50.00		112	80-120			
Duplicate **Source: 2401087-01**	**Prepared: 01/15/24 Analyzed: 01/16/24**									
Total Dissolved Solids	2040	5.0	mg/L		2040			0.00	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: 1-15-24 PAGE: 1 OF ____

FILE NO.: ____ LAB NO.: 2401112

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

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

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
	1-15-24	0830	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
MA	[signature]	1-15-24	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:

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

Arrived at the lab 1-15-24 1900

POSITIVE
LAB SERVICE

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

January 31, 2024

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

Report No.: 2401218
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 24, 2024.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 01/31/24
Submitted: 01/24/24
PLS Report No.: 2401218

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2401218-01) Sampled: 01/24/24 08:15 Received: 01/24/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3940**		1	mg/L	5.0	- SM 2540C	01/25/24	01/26/24	ss	BA43113

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA43113 - -										
Blank	**Prepared: 01/25/24 Analyzed: 01/26/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/25/24 Analyzed: 01/26/24**									
Total Dissolved Solids	58.0	5.0	mg/L	50.00		116	80-120			
Duplicate **Source: 2401178-07**	**Prepared: 01/25/24 Analyzed: 01/26/24**									
Total Dissolved Solids	66.7	5.0	mg/L		65.0			2.52	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: 1.24.24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2401218

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 1.4°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 1.6°C

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 61

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	1.24.24	0815	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA Received by (Signature & Name): for John Barie Date: 1-24-24 Time: 0815

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

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

Arrived at the lab 1/24/24 1049

POSITIVE
LAB SERVICE

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

February 14, 2024

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

Report No.: 2401276
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

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

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 02/14/24
Submitted: 01/30/24
PLS Report No.: 2401276

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2401276-01) Sampled: 01/30/24 08:10 Received: 01/30/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3550**		1	mg/L	5.0	- SM 2540C	02/05/24	02/05/24	ss	BB41414

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BB41414 - -										
Blank	**Prepared & Analyzed: 02/05/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared & Analyzed: 02/05/24**									
Total Dissolved Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate **Source: 2402057-05**	**Prepared & Analyzed: 02/05/24**									
Total Dissolved Solids	33.3	5.0	mg/L		35.0			4.98	5	
Duplicate **Source: 2402057-06**	**Prepared & Analyzed: 02/05/24**									
Total Dissolved Solids	13.3	5.0	mg/L		15.0			11.8	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: 1-30-24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2401276

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 1.1°C

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

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 66

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	1-30-24	0810	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): for Tom Barie

Date: 1-30-24 Time: 0810

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

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

Arrived at the lab 1-30-24 1045

POSITIVE
LAB SERVICE

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

February 27, 2024

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

Report No.: 2402208
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 08, 2024.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 02/27/24
Submitted: 02/08/24
PLS Report No.: 2402208

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2402208-01) Sampled: 02/08/24 08:30 Received: 02/08/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**5630**		1	mg/L	5.0	- SM 2540C	02/12/24	02/12/24	dt	BB42709

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BB42709 - -										
Blank	**Prepared & Analyzed: 02/12/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared & Analyzed: 02/12/24**									
Total Dissolved Solids	59.0	5.0	mg/L	50.00		118	80-120			
Duplicate **Source: 2402208-01**	**Prepared & Analyzed: 02/12/24**									
Total Dissolved Solids	5600	5.0	mg/L		5630			0.534	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: 2-8-24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2402208

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 1.6°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 1.8°C

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 60

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	2-8-24	0830	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA Received by (Signature & Name): John Barie Date: 2-8-24 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:

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

Arrived at the lab 2-8-24 1530

POSITIVE LAB SERVICE

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

March 06, 2024

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

Report No.: 2402260
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 13, 2024.

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

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

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

Guadalupe Tanuka
Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 03/06/24
Submitted: 02/13/24
PLS Report No.: 2402260

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2402260-01) Sampled: 02/13/24 08:30 Received: 02/13/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**2890**		1	mg/L	5.0	- SM 2540C	02/19/24	02/19/24	ss	BC40616

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC40616 - -										
Blank	**Prepared & Analyzed: 02/19/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared & Analyzed: 02/19/24**									
Total Dissolved Solids	60.0	5.0	mg/L				80-120			
Duplicate **Source: 2402260-01**	**Prepared & Analyzed: 02/19/24**									
Total Dissolved Solids	2890	5.0	mg/L		2890			0.115	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: 2-13-24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2402260

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: 2.7°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 0.9°C

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 6C

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									
	2-13-24	0830	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA Received by (Signature & Name): John Barie Date: 2-13-24 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:

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

Arrived at the lab 2-13-24 0920

POSITIVE
LAB SERVICE

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

March 01, 2024

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

Report No.: 2402308
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 20, 2024.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

File #:74548
Report Date: 03/01/24
Submitted: 02/20/24
PLS Report No.: 2402308

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2402308-01) Sampled: 02/20/24 08:20 Received: 02/20/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**5630**		1	mg/L	5.0	- SM 2540C	02/22/24	02/23/24	al	BC40120

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC40120 - -										
Blank	**Prepared: 02/22/24 Analyzed: 02/23/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 02/22/24 Analyzed: 02/23/24**									
Total Dissolved Solids	51.0	5.0	mg/L	50.00		102	80-120			
Duplicate **Source: 2402344-07**	**Prepared: 02/22/24 Analyzed: 02/23/24**									
Total Dissolved Solids	ND	5.0	mg/L		ND				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: 2-20-23 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2402308

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: 1.5°C

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 61

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	2-20-23	0820	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA

Received by (Signature & Name): for John Barie

Date: 2-20-23 Time: 0820

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

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

Arrived at the lab 2-20-23 1055

POSITIVE
LAB SERVICE

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

March 14, 2024

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

Report No.: 2402383
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 26, 2024.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 03/14/24
Submitted: 02/26/24
PLS Report No.: 2402383

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2402383-01) Sampled: 02/26/24 07:40 Received: 02/26/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3910**		1	mg/L	5.0	- SM 2540C	02/29/24	03/01/24	ss	BC41414

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC41414 - -										
Blank	**Prepared: 02/29/24 Analyzed: 03/01/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 02/29/24 Analyzed: 03/01/24**									
Total Dissolved Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate **Source: 2402383-01**	**Prepared: 02/29/24 Analyzed: 03/01/24**									
Total Dissolved Solids	4010	5.0	mg/L		3910			2.43	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: 2-26-24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2402383

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

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

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

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 66

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	2-26-24	0740	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): John Barie

Date: 2-26-24 Time: 0740

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 2-26-24 0845

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

POSITIVE
LAB SERVICE

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

March 14, 2024

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

Report No.: 2403016
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 05, 2024.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 03/14/24
Submitted: 03/05/24
PLS Report No.: 2403016

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2403016-01) Sampled: 03/05/24 08:20 Received: 03/05/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**5310**		1	mg/L	5.0	- SM 2540C	03/07/24	03/08/24	ss	BC41415

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC41415 - -										
Blank	**Prepared: 03/07/24 Analyzed: 03/08/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/07/24 Analyzed: 03/08/24**									
Total Dissolved Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate **Source: 2403032-01**	**Prepared: 03/07/24 Analyzed: 03/08/24**									
Total Dissolved Solids	1790	5.0	mg/L		1790			0.186	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: 3-5-24 PAGE: 1 OF

FILE NO.: LAB NO.: 2403016

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

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

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 1.9°C

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 60

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	3-5-24	0820	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA Received by (Signature & Name): John Barie Date: 3-5-24 Time: 0820

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

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

Arrived at the lab 3-5-24 1025

POSITIVE
LAB SERVICE

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

March 18, 2024

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

Report No.: 2403068
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 11, 2024.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 03/18/24
Submitted: 03/11/24
PLS Report No.: 2403068

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2403068-01) Sampled: 03/11/24 07:35 Received: 03/11/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4490**		1	mg/L	5.0	- SM 2540C	03/14/24	03/15/24	al	BC41823

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC41823 - -										
Blank	**Prepared: 03/14/24 Analyzed: 03/15/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/14/24 Analyzed: 03/15/24**									
Total Dissolved Solids	26.0	5.0	mg/L	25.00		104	80-120			
Duplicate **Source: 2403068-01**	**Prepared: 03/14/24 Analyzed: 03/15/24**									
Total Dissolved Solids	4510	5.0	mg/L		4490			0.356	5	

Notes and Definitions

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

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 3-11-24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2403068

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 OBSERVED TEMP 0.4°C

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

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 66

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

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

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

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE		
	3-11-24	0735	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA Received by (Signature & Name): John Barie Date: 3-11-24 Time: 0735

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

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

Arrived at the lab 3-11-24 0800

POSITIVE
LAB SERVICE

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

March 25, 2024

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

Report No.: 2403118
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 19, 2024.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 03/25/24
Submitted: 03/19/24
PLS Report No.: 2403118

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2403118-01) Sampled: 03/19/24 07:00 Received: 03/19/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4900**		1	mg/L	5.0	- SM 2540C	03/20/24	03/21/24	al	BC42223

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC42223 - -										
Blank	**Prepared: 03/20/24 Analyzed: 03/21/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/21/24 Analyzed: 03/22/24**									
Total Dissolved Solids	53.3	5.0	mg/L	50.00		107	80-120			
Duplicate **Source: 2403125-04**	**Prepared: 03/20/24 Analyzed: 03/21/24**									
Total Dissolved Solids	247	5.0	mg/L		253			2.40	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: 3-19-24 PAGE: 1 OF

FILE NO.: LAB NO.: 2403118

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

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

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP: 1.9°C

SAMPLER NAME: JOHN BARIE SIGNATURE: THERMO ID: 60

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	3-19-24	07:00	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA

Received by (Signature & Name): John Barie

Date: 3-19-24 Time: 07:00

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

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

Arrived at the lab 3-19-24 1:00

POSITIVE
LAB SERVICE

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

April 01, 2024

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

Report No.: 2403275
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 26, 2024.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 04/01/24
Submitted: 03/26/24
PLS Report No.: 2403275

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2403275-01) Sampled: 03/26/24 08:15 Received: 03/26/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4450**		1	mg/L	5.0	SM 2540C	03/28/24	03/28/24	ss	BD40109

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BD40109 - -										
Blank	**Prepared & Analyzed: 03/28/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared & Analyzed: 03/28/24**									
Total Dissolved Solids	58.0	5.0	mg/L	50.00		116	80-120			
Duplicate **Source: 2403250-09**	**Prepared & Analyzed: 03/28/24**									
Total Dissolved Solids	360	5.0	mg/L		360			0.00	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: 3-26-24 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2403275

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 0.4°C

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

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

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	3-26-24	0815	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): NA | Received by (Signature & Name): For Jim Barie | Date: 3-26-24 | Time: 0815

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

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

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

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

Arrived at the lab 3-26-24 #10

POSITIVE
LAB SERVICE

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

April 11, 2024

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

Report No.: 2404016
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 April 02, 2024.

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

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

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

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

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

File #:74548
Report Date: 04/11/24
Submitted: 04/02/24
PLS Report No.: 2404016

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2404016-01) Sampled: 04/02/24 08:25 Received: 04/02/24

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4210**		1	mg/L	5.0	- SM 2540C	04/04/24	04/05/24	ss	BD41103

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BD41103 - -										
Blank	**Prepared: 04/04/24 Analyzed: 04/05/24**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 04/04/24 Analyzed: 04/05/24**									
Total Dissolved Solids	53.0	5.0	mg/L	50.00		106	80-120			
Duplicate **Source: 2404028-02**	**Prepared: 04/04/24 Analyzed: 04/05/24**									
Total Dissolved Solids	20.0	5.0	mg/L		20.0			0.00	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: 4.2.24 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2404016

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** 0.6°C

PROJECT MANAGER MATT RICHARDS **PHONE NO:** **FAX NO:** **CORRECTED TEMP:** 1.6°C

SAMPLER NAME: JOHN BARIE **SIGNATURE:** **THERMO ID:**

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

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

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

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	4.2.24	0825	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA

Received by (Signature & Name): Tom Barie

Date: 4.2.24 Time: 0825

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

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

By: _____ Date: _____

SPECIAL INSTRUCTION:

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

Arrived at the lab 4.2.24 4.2.24 1045

Appendix C
Operation Logs

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

CTG 1

Date	Event Type [1]	Event Start	Event End	Duration (hrs:min)
1/2/2024	Cold Start	17:12	18:44	1:32
1/2/2024	Stop	23:19	23:28	0:09
1/3/2024	Warm Start	12:39	13:48	1:09
1/3/2024	Stop	18:21	18:30	0:09
1/7/2024	Cold Start	21:00	22:30	1:30
3/13/2024	Stop	20:57	21:06	0:09

CTG 2

Date	Event Type [1]	Event Start	Event End	Duration (hrs:min)
3/13/2024	Cold Start	16:42	18:04	1:22

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

Malburg Generating Station
Appendix C, Table 2
Diesel Firewater Pump Testing Times
During Quarter 1, 2024

Date	Time (hh:mm)	Start Hours	End Hours	Event Type	Hours of Operation
1/8/2024	18:35	381.7	382.2	Testing	0.5
1/14/2024	20:46	382.2	382.7	Testing	0.5
1/21/2024	21:15	382.7	383.2	Testing	0.5
1/28/2024	18:03	383.2	383.7	Testing	0.5
2/11/2024	20:19	383.7	384.2	Testing	0.5
2/18/2024	22:36	384.2	384.7	Testing	0.5
2/25/2024	18:57	384.7	385.2	Testing	0.5
3/3/2024	19:31	385.2	385.7	Testing	0.5
3/10/2024	18:39	385.7	386.2	Testing	0.5
3/17/2024	21:18	386.2	386.7	Testing	0.5
3/24/2024	17:37	386.8	387.3	Testing[1]	0.6
3/26/2024	8:51	387.3	387.8	Testing	0.5

[1] A Maintenance Department test started following the monthly testing on March 17, 2024. This caused the engine hours to increase from 386.7 to 386.8 on March 19, 2024. This 0.1 hour of operation has been added to the March 24, 2024 runtime.

Appendix D
Diesel Fuel Oil Purchase Records

SALES QUOTE

ORDER NUMBER: 2607075

DATE:3/20/2024

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

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

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

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

ACCT NO (Bill-to): 01-0001045

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

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

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

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

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

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

created by:crippsto1

ver. SCF20240320

www.scfuels.com

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

Appendix E
Excess Emission Reports

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/06/2024 21:33 **Location:** Vernon, California

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

Total Operating Time: 1,595.27 Hours

Non-Operating Time: 588.73 Hours Report Time: 2,184.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/06/2024 21:33 **Location:** Vernon, California

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

Total Operating Time: 1,595.27 Hours

Non-Operating Time: 588.73 Hours Report Time: 2,184.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/06/2024 21:34 **Location:** Vernon, California

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

Total Operating Time: 1,595.27 Hours

Non-Operating Time: 588.73 Hours Report Time: 2,184.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/06/2024 21:34 **Location:** Vernon, California

Tag Name: U1_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,595.27 Hours

Non-Operating Time: 588.73 Hours Report Time: 2,184.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:00 **Location:** Vernon, California
Tag Name: U1_VOC_LbPerHr_1M
SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,595.27 Hours
Non-Operating Time: 588.73 Hours Report Time: 2,184.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/06/2024 22:00 **Location:** Vernon, California

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

Total Operating Time: 1,595.27 Hours

Non-Operating Time: 588.73 Hours Report Time: 2,184.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 1 - CO ppmvdc 1-hour during Normal Operation

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:11 **Location:** Vernon, California

Tag Name: U1_CONormal_Ppmvdc_1H
Total Operating Time: 1,598.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 586.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**1,598.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

Unit 1 - NOx ppmvdc 1-hour during Normal Operation

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:13 **Location:** Vernon, California

Tag Name: U1_NOxNormal_Ppmvdc_1H
Total Operating Time: 1,598.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 586.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**1,598.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

Unit 1 - VOC ppmvdc 1-hour during Normal Operation

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:13 **Location:** Vernon, California

Tag Name: U1_VOCNormal_Ppmvdc_1H
Total Operating Time: 1,598.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 586.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**1,598.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

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

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:14 **Location:** Vernon, California

Tag Name: U1_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 1,598.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 586.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**1,598.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Quad K Excess Emissions Report

U1 NOX 4-Hour Events

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/06/2024 22:14 **Location:** Vernon, California

Tag Name: U1_NOx4H_Ppmvdc_1H

Total Operating Time: 1,598.00 Hour(s) **No Exclusions Allowed**

Non-Operating Time: 586.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**1,598.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Startup/Shutdown Event Report

U2 CO Startup/Shutdown Events

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/06/2024 22:15 **Location:** Vernon, California

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

Total Operating Time: 440.30 Hours

Non-Operating Time: 1,743.70 Hours Report Time: 2,184.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

U2 CO Startup/Shutdown Events

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:15 **Location:** Vernon, California
Tag Name: U2_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission
Total Operating Time: 440.30 Hours
Non-Operating Time: 1,743.70 Hours Report Time: 2,184.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/06/2024 22:16 **Location:** Vernon, California

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

Total Operating Time: 440.30 Hours

Non-Operating Time: 1,743.70 Hours Report Time: 2,184.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/06/2024 22:16 **Location:** Vernon, California

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

Total Operating Time: 440.30 Hours

Non-Operating Time: 1,743.70 Hours Report Time: 2,184.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:17 **Location:** Vernon, California
Tag Name: U2_VOC_LbPerHr_1M
SI = SampleInvalid, * = Excess Emission

Total Operating Time: 440.30 Hours
Non-Operating Time: 1,743.70 Hours Report Time: 2,184.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:17 **Location:** Vernon, California
Tag Name: U2_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 440.30 Hours
Non-Operating Time: 1,743.70 Hours Report Time: 2,184.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 2 - CO ppmvdc 1-hour during Normal Operation

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:18 **Location:** Vernon, California

Tag Name: U2_CONormal_Ppmvdc_1H
Total Operating Time: 441.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,743.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**441.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

Unit 2 - NOx ppmvdc 1-hour during Normal Operation

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:18 **Location:** Vernon, California

Tag Name: U2_NOxNormal_Ppmvdc_1H
Total Operating Time: 441.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,743.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**441.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

Unit 2 - VOC ppmvdc 1-hour during Normal Operation

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:18 **Location:** Vernon, California

Tag Name: U2_VOCNormal_Ppmvdc_1H
Total Operating Time: 441.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,743.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**441.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Excess Emission Report

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

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:19 **Location:** Vernon, California

Tag Name: U2_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 441.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,743.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**441.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Quad K Excess Emissions Report

U2 NOX 4-Hour Events

From: 01/01/2024 00:00 **To:** 03/31/2024 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/06/2024 22:16 **Location:** Vernon, California

Tag Name: U2_NOx4H_Ppmvdc_1H
Total Operating Time: 441.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 1,743.00 Hour(s) Report Time: 2,184.00 Hour(s)

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

Total Operating Time:	**441.00 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
CTG 1 CO Analyzer Malfunction Documentation

From: Avelino Revilla
To: Engel, Elyse
Cc: Umeda, Lisa; Richards, Matthew
Subject: [EXTERNAL] RE: Follow-up to Facility ID 195802 CEMS Failure
Date: Tuesday, March 26, 2024 8:43:21 AM

Thank you Elyse! I added the information to the report for Notification # 785846 and closed the report.

Avelino

From: Engel, Elyse <Elyse.Engel@jacobs.com>
Sent: Monday, March 25, 2024 11:38 AM
To: Avelino Revilla <arevilla@aqmd.gov>
Cc: Umeda, Lisa <lumeda@cityofvernon.org>; Richards, Matthew <MRichards@cityofvernon.org>
Subject: [EXTERNAL] Follow-up to Facility ID 195802 CEMS Failure

Hi Avelino,

As you are aware, Vernon Public Utilities (VPU, Facility ID 195802) experienced a malfunction of the CEMS CO Analyzer associated with Gas Turbine No. 1 (Device ID D27) last Monday, March 18, 2024 at 10:00 am. Verbal notification of this hardware breakdown was provided to SCAQMD on March 19, 2024 following our discussion; the notification confirmation number is 785846. As indicated in the verbal report, Gas Turbine No. 1 was offline at the time of the malfunction with no associated emissions.

Per our discussion last Thursday, March 21, 2024, VPU was granted a one-time 96-hour extension to its repair window per Rule 218.2(e)(2)(C). VPU successfully repaired the CEMS CO Analyzer late the evening of Friday, March 22, 2024, following replacement of the analyzer's motherboard and associated minor components. In accordance with the site's CEMS QA/QC Plan, the affected unit passed its calibration the morning of Saturday, March 23, 2024, indicating that the issue had been fully resolved within the additional 96-hour timeframe allowed.

To verify the site's eligibility for the additional 96-hour window, attached please find the following documentation per Rule 218.2(e)(4):

- Two (2) photos showing readings of the Gas Turbine No. 1 Fuel Flow Meter before and after the Friday repairs. As shown, the meter reading did not change during the repair window, indicating there was no fuel flow to the affected unit.
- A printout from the site's Data Acquisition and Handling System (DAHS) showing the Gas Turbine No. 1 fuel flow, operating time, heat input, and operating status from before the malfunction occurred on March 18th to after the malfunction was repaired on March 22nd. As shown, there was no fuel flowing to the unit during this time period nor was the unit operating. Since the unit was offline during this time period without any fuel combustion, all emissions associated with the unit were zero.

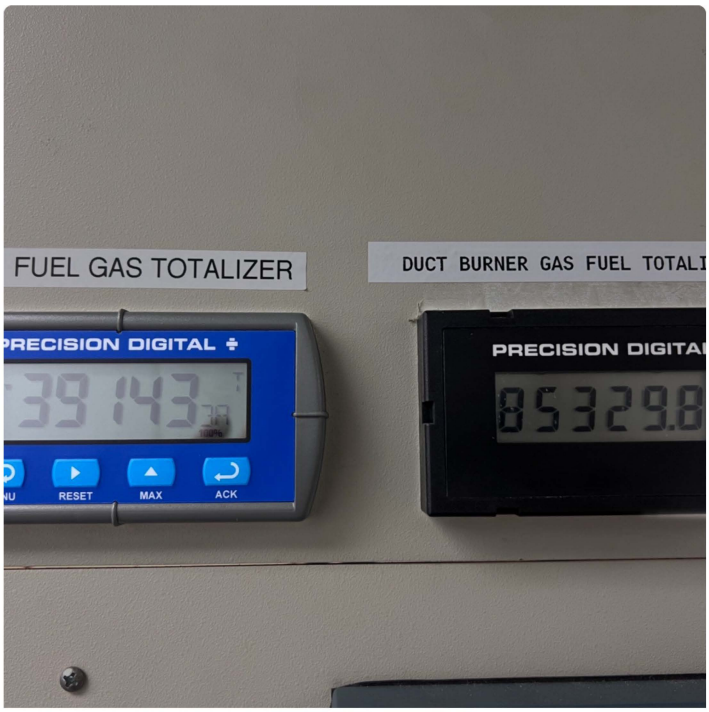
Please let us know if you have any follow-up questions regarding this matter.

Thanks,
Elyse

Elyse Engel, EIT | Jacobs | Project Manager & Air Quality Specialist
M:+01.702.354.2648 | elyse.engel@jacobs.com
1737 N First Street, Suite 350 | San Jose, CA 95112 | USA

Work Schedule: M-W-Th 9 am to 5 pm; T 9 am to 1:30 pm

Upcoming PTO: April 5 – 12



Before analyzer repair

Friday • Mar 22, 2024 • 1:08 PM Adjust

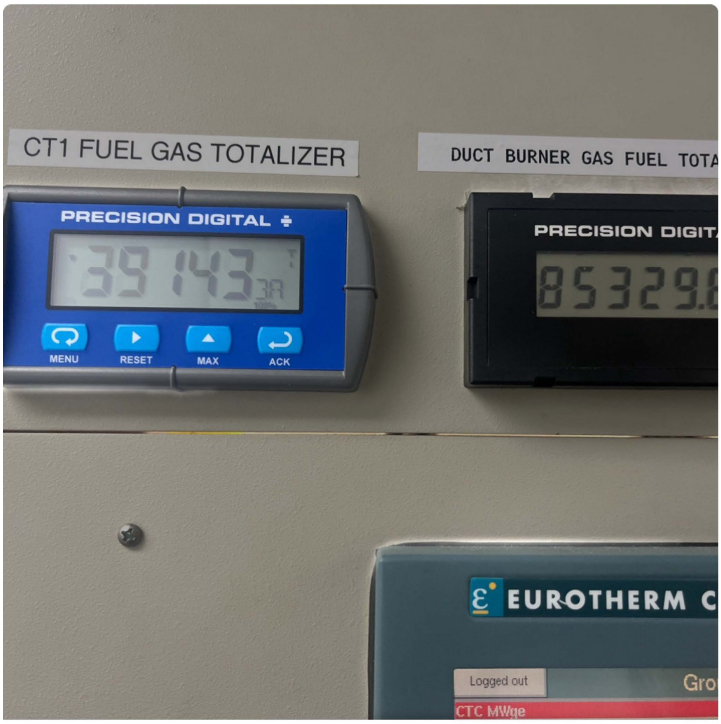
IMG_0857

Apple iPhone 13 Pro Max JPEG

Wide Camera — 26 mm ƒ1.5

12 MP • 4032 × 3024 • 4.8 MB

ISO160 | 26mm | 0ev | ƒ1.5 | 1/60s



After analyzer repair

Saturday • Mar 23, 2024 • 11:23 AM Adjust

73291099104__C624DD39-C9B3-4165-A56E-C0F15B0F5257

Apple iPhone 13 mini HEIF

Wide Camera — 26 mm ƒ1.6

12 MP • 4032 × 3024 • 2.4 MB

ISO200 | 26mm | 0ev | ƒ1.6 | 1/60s

Add a location

Daily Operations Report 1

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)

From: 03/18/2024 00:00 **To:** 03/23/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 03/25/2024 09:34 **Location:** Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	Unit 1 OperatingTime, Pct 1 Hour(s)	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, 0to3 1 Hour(s)
03/18/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Average/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
Minimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Maximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
%SI	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Daily Operations Report 1

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)

From: 03/18/2024 00:00 **To:** 03/23/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 03/25/2024 09:34 **Location:** Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	Unit 1 OperatingTime, Pct 1 Hour(s)	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, 0to3 1 Hour(s)
03/19/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Average/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
Minimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Maximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
%SI	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Daily Operations Report 1

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)

From: 03/18/2024 00:00 **To:** 03/23/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 03/25/2024 09:34 **Location:** Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	Unit 1 OperatingTime, Pct 1 Hour(s)	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, 0to3 1 Hour(s)
03/20/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Average/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
Minimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Maximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
%SI	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Daily Operations Report 1

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)

From: 03/18/2024 00:00 **To:** 03/23/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 03/25/2024 09:34 **Location:** Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	Unit 1 OperatingTime, Pct 1 Hour(s)	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, 0to3 1 Hour(s)
03/21/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Average/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
Minimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Maximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
%SI	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Daily Operations Report 1

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)

From: 03/18/2024 00:00 **To:** 03/23/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 03/25/2024 09:34 **Location:** Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	Unit 1 OperatingTime, Pct 1 Hour(s)	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, 0to3 1 Hour(s)
03/22/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Average/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
Minimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Maximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
%SI	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Daily Operations Report 1

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)

From: 03/18/2024 00:00 **To:** 03/23/2024 23:59 **Facility Name:** Malburg Generating Station

Generated: 03/25/2024 09:34 **Location:** Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	Unit 1 OperatingTime, Pct 1 Hour(s)	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, 0to3 1 Hour(s)
03/23/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Average/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
Minimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
Maximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
%SI	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00