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Submitted Electronically

February 27, 2025

Valero Cogeneration Project
2024 CEC Annual Compliance Report
Docket No. 01-AFC-05

Mr. Anwar Ali
Compliance Project Manager
Valero Cogeneration Project (01-AFC-05)
California Energy Commission
1516 Ninth Street (MS-2000)
Sacramento, California 95814

Dear Mr. Ali:

Enclosed is a copy of the Annual Compliance Report for the calendar year 2024 for the Valero Cogeneration Project, as required by the General Conditions of the CEC's Commission Decision. Along with the compliance status information required by the CEC's General Conditions, documents are included in Section 3 of this report to comply with the following specific conditions:

- AQ-56 – Cooling Tower TDS Content
- HAZ-1 – List of Hazardous Materials Contained at Cogeneration Unit
- WASTE-2 – Waste Management Methods
- WQ-2 – Annual Monitoring Report to RWQCB
- WR-1 – Annual Water Use Summary

Please contact Ms. Asha Noorullah at (707) 745-7212 should you have questions regarding this information.

Sincerely,

Taryn Goodwin

Taryn Goodwin
Manager - Environmental Engineering

TWG/AN

Enclosure

Document # 27946

Benicia Refinery

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT FOR

THE CALIFORNIA ENERGY COMMISSION

Document # 27946

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

TABLE OF CONTENTS

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

Section 1: Updated Compliance Matrix (Open Conditions)

2024 Annual Compliance Report

Valero Cogeneration Project Conditions of Certification

Item No.	Condition No.	Requirement	Timing	No. of Days Prior	Status
2	AQ-2	SO_2 emissions offsets quarterly report	End of each quarter	Within 30 days after	Ongoing
13	AQ-13	Fire only refinery fuel or natural gas in gas turbines and HRSG duct burners	On-going	--	Ongoing
14	AQ-14	Combined heat input rate to the power train limited to 810 MM Btu per hour, averaged over any 3-hr period	On-going	--	Ongoing
15	AQ-15	Combined heat input rate to the power train limited to 19,440 MM Btu per calendar day	On-going	--	Ongoing
16	AQ-16	Combined cumulative heat input rate for each power train limited to 6,351,000 MM Btu per year	On-going	--	Ongoing
17	AQ-17	Properly operate and maintain SCR and CO Oxidation Catalyst abatement systems	On-going	--	Ongoing
18	AQ-18	Gas turbines and HRSGs shall comply with criteria pollutant emission limits when firing natural gas exclusively	On-going	--	Ongoing
19	AQ-19	Gas turbines and HRSGs shall comply with criteria pollutant emission limits under all operating scenarios	On-going	--	Ongoing
20	AQ-20	Sulfuric acid emissions limited to less than 7 tons in any consecutive 4 quarters	On-going	--	Ongoing
22	AQ-22	Total power train criteria pollutant emissions annual limits and annual report	On-going	--	Ongoing
23	AQ-23	Calculate and record criteria pollutant emissions on a daily basis	On-going	--	Ongoing
24	AQ-24	Notify District's Source Test Section prior to conducting any tests	Prior to source test	7	Ongoing
25	AQ-25	Submit monitoring reports in accordance with District procedures and time limits	On-going	--	Ongoing
26	AQ-26	Maintain records on site at least 5 years	On-going	--	Ongoing

2024 Annual Compliance Report

Valero Cogeneration Project Conditions of Certification

Item No.	Condition No.	Requirement	Timing	No. of Days Prior	Status
27	AQ-27	Notify District of any violations of permit conditions per Title V	On-going	--	Ongoing
31	AQ-31	Start up period for gas turbines no longer than 256 min or achieve 1 hr in compliance	Start Up mode	--	Ongoing
34	AQ-34	Comply with Acid Rain program CEM requirements	On-going	--	Ongoing
36	AQ-36	Report H2S/TRS content of refinery fuel gas	End of each quarter	Within 60 days after	Ongoing
38	AQ-38	Install/maintain CEM and recorder for NOX, CO and O2	On-going	--	Ongoing
39	AQ-39	POC and PM10 annual source testing	Annual	--	Ongoing
40	AQ-40	SAM, SO2, SO3, ammonium sulfates quarterly source testing	Quarterly	--	Ongoing
42	AQ-42	Inspect HC valves per Reg 8-18	Quarterly	--	Ongoing
43	AQ-43	Equip connectors with graphitic-based gaskets and inspect per Reg 8-18	Quarterly	--	Ongoing
44	AQ-44	Equip HC centrifugal compressors with dual mechanical seals and inspect per Reg 8-18	Quarterly	--	Ongoing
54	AQ-56	Measured TDS content of cooling tower circulating water	Monthly, Annual; Annual Compl. Report	--	Ongoing
80	HAZ-1	List of Haz Materials in reportable quantities	Annual Compl. Report	_	Ongoing
85	NOISE-2	Noise Complaint Records	On-going	_	Ongoing
116	WASTE-1	Notify CPM of any enforcement action by any local, state or federal agency	As needed	_	Ongoing
123	WATER QUALITY-2	Notify CPM of any changes to NPDES permit, submit annual monitoring report	Receipt of NPDES permit, annual reporting; Annual Compl. Report	30 (after)	Ongoing
131	WATER RES-1	Water use metering, annual report	Annual Compl. Report	--	Ongoing

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

Section 2: Summary of Current Cogeneration Unit Operating Status

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

Section 2: Cogeneration Unit Operating Status

The Cogen Unit GT-4901 availability for 2024 was 57.08% including all unplanned and planned maintenance down times (total of 3760 shutdown hours).

- Routine PMs were performed (filters, instrument calibrations, etc.)
    - Replaced lease engine with VLO engine following scheduled combustion inspection
    - Updated Fire Protection System during calibration
    - Annual instrument calibration
    - Pre & main air filters replaced
- Unplanned Outages for the year included:
    - Actuator replacements due to leaks and position deviation delayed starting the Valero engine.
    - In April, installed a lease engine (SN 191-138, mfg. 1998) following bearing failure of the Valero Engine
    - Installed second lease engine (SN 185-171, mfg. 1994) after lube oil contamination was found on the first lease engine (SN 191-138, mfg. 1998).
    - Flying Takeover Boiler Maintenance

VALERO COGENERATION PROJECT

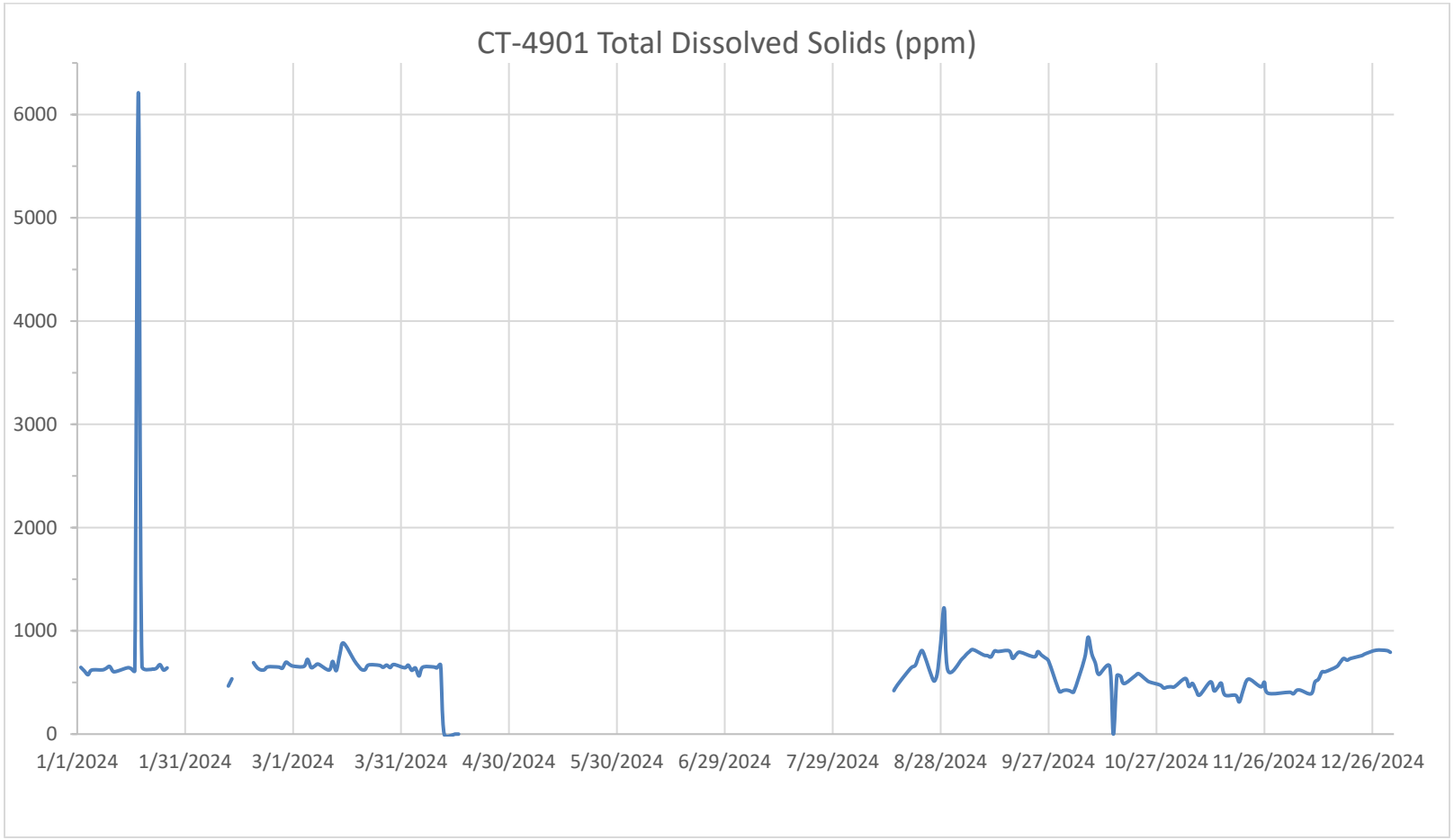
2024 ANNUAL COMPLIANCE REPORT

Section 3: Documents Required by Specific Conditions

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

AQ-56 Cooling Tower TDS Content



*** Please note breaks in data were due to Cogen downtime.**

Compliance with monthly and annual TDS average limits

Month	Monthly Average (ppm)
Jan	923
Feb	626
March	677
April	638
May	751
June	0
July	0
August	683
September	751
October	556
November	448
December	618

Annual Average = 658 ppm

AQ-56: The measured total dissolved solids (TDS) content of the circulating cooling water shall not exceed 1500 ppm TDS for any monthly average, or 1080 ppm TDS annual average, with a municipal water supply as cooling tower make-up. The use of alternative water supplies will require evaluation of new TDS limits for the cooling tower.

Verification: The project owner shall maintain appropriate measurement data records, and submit the monthly and annual average TDS of the cooling tower circulating water.

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

HAZ-1 Hazardous Materials Contained at Cogeneration Unit

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Valero**
Facility Name **Valero Benicia Refinery**
3400 E 2nd Street, Benicia 94510

Chemical Location **C5 COGEN**

CERS ID **10133161**
Facility ID **48-000-020015**
Status **Submitted** on 8/9/2024 8:02 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	EL-1515 VISCOSITY GRADE 10 TO 680 CAS No	**Pounds** State: Liquid Type: Mixture	**1950** Storage Container: Steel Drum Days on Site: 365	**487**	1950 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion	POLYALKYLENE GLYCOL MIXTURE PROPRIETARY ADDITIVES	95% 5%		9038-95-3
	EMERACATM ADCAT CO CATALYST CAS No 1344-28-1	**Pounds** State: Solid Type: Mixture	**4800** Storage Container: Other Days on Site: 365	**4800**	4800 Pressue: Ambient Temperature: > Ambient	Waste Code	- Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion - Health Respiratory Skin - Health Serious Eye Damage Eye Target Organ Toxicity	ALUMINUM OXIDE PLATINUM			1344-28-1 7440-06-4
	FYREWASH F1 CAS No	**Pounds** State: Liquid Type: Mixture	**3200** Storage Container: Steel Drum Days on Site: 365	**400**	1600 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Target Organ Toxicity	NON IONIC SURFACTANT PETROLEUM DISTILLATES HEAVY AROMATIC NAPHTHA 2-BUTOXYEHTHOXY ETHANOL	25% 50% 25% 25%		 64742-47-8 64742-94-5 112-34-5
	ION EXCHANGE RESIN USF C-211 CAS No	**Pounds** State: Solid Type: Mixture	**710** Storage Container: Other Days on Site: 365	**710**	710 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion - Health Serious Eye Damage Eye Target Organ Toxicity	WATER SULFONATED COPOLYMER OF STYRENE	60% 70%		7732-18-5 69011-22-9

Hazardous Materials And Wastes Inventory Matrix Report

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	MOBIL DTE 25 CAS No	**Pounds** State: Liquid Type: Mixture	**800** Storage Container: Steel Drum Days on Site: 365	**400**	400 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Acute Toxicity	NON HAZARDOUS PROPRIETARY MIXTURE			
	MOBIL JET OIL II CAS No	**Pounds** State: Liquid Type: Mixture	**2490** Storage Container: Aboveground Tank, Steel Drum, Other Days on Site: 365	**1250**	2490 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Acute Toxicity - Health Toxicity - Health Skin Corrosion - Health Respiratory Skin - Health Serious Eye Damage Eye Target Organ Toxicity	TRICRESYL PHOSPHATE 1-NAPHTHYLAMINE, N-PHENYL	5% 5%		1330-78-5 90-30-2
DOT: 8 - Corrosives (Liquids and Solids)	**Nalco 3DTrasar 3DT230** CAS No: 7664-93-9 ✓EHS	**Pounds** State: Liquid Type: Mixture	**1056** Storage Container: Tote Bin Days on Site: 365	**506**	423 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Gas Under Pressure - Physical Explosive - Physical Corrosive To Metal - Health Acute Toxicity - Health Skin Corrosion - Health Respiratory Skin - Health Serious Eye Damage Eye	Sulfuric Acid Phosphoric Acid Benzotriazole	5% 5% 5%	✓	7664-93-9 7664-38-2 95-14-7

Hazardous Materials And Wastes Inventory Matrix Report

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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 8 - Corrosives (Liquids and Solids)	**NALCO H-550** CAS No 111-30-8	**Pounds** State Liquid Type Mixture	**2400** Storage Container Tote Bin Days on Site: 365	**2400**	1800 Pressue Ambient Temperature > Ambient	Waste Code	- Physical Corrosive To Metal - Health Acute Toxicity - Health Skin Corrosion - Health Respiratory Skin - Health Serious Eye Damage Eye Target Organ Toxicity - Health - Health Germ Cell Mutagenicity	GLUTARALDEHYDE	60%		111-30-8
	NALCO STABREX ST70 CAS No	**Pounds** State Liquid Type Mixture	**1222** Storage Container Tote Bin Days on Site: 365	**850**	489 Pressue Ambient Temperature Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion - Health Respiratory Skin - Health Serious Eye Damage Eye	SODIUM HYDROXIDE	5%		1310-73-2
DOT: 8 - Corrosives (Liquids and Solids)	**Nalco Trasar Trac 104** CAS No ✔EHS 7631-95-0	**Pounds** State Liquid Type Mixture	**35** Storage Container Days on Site: 365	**35**	35 Pressue Temperature	Waste Code	- Health Acute Toxicity - Health Skin Corrosion	Sodium Molybdate	5%		7631-95-0
DOT: 8 - Corrosives (Liquids and Solids)	**NALCO Trasar Trac 104** CAS No ✔EHS 7631-95-0	**Pounds** State Liquid Type Mixture	**570** Storage Container Days on Site: 365	**50**	570 Pressue Temperature	Waste Code	- Health Acute Toxicity	Sodium Molybdate	7%		7631-95-0

Hazardous Materials And Wastes Inventory Matrix Report

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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	NATURAL GAS CAS No	**Pounds** State: Gas Type: Mixture	**297** Storage Container: Steel Drum, Other Days on Site: 365	**3240**	297 Pressue: > Ambient Temperature: > Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Physical Explosive - Health Acute Toxicity - Health Simple Asphyxiant	METHANE ETHANE	99% 1%		74-82-8 74-84-0
	PLATE TYPE CATALYST CAS No	**Pounds** State: Solid Type: Mixture	**52000** Storage Container: Other Days on Site: 365	**52000**	52000 Pressue: > Ambient Temperature: > Ambient	Waste Code	- Physical Corrosive To Metal - Health Acute Toxicity - Health Respiratory Skin Target Organ Toxicity	MOLYBDENUM TRIOXIDE TITANIUM DIOXIDE VANADIUM PENTOXIDE	10% 80% 2%	 ✓	1313-27-5 13463-67-7 1314-62-1
Flammable Liquid, Class I-A	**REFINERY FUEL GAS** CAS No	**Pounds** State: Gas Type: Mixture	**407** Storage Container: Steel Drum, Other Days on Site: 365	**3240**	407 Pressue: > Ambient Temperature: > Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion - Health Serious Eye Damage Eye - Health Simple Asphyxiant	FUEL GAS			68308-27-0
DOT: 9 - Misc. Hazardous Materials Flammable Liquid, Class I-A	**SOUR WASTEWATER** CAS No	**Pounds** State: Liquid Type: Mixture	**20** Storage Container: Steel Drum, Other Days on Site: 365	**220**	20 Pressue: > Ambient Temperature: > Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Respiratory Skin	HYDROGEN SULFIDE WATER	1%	✓	7783-06-4 7732-18-5

Hazardous Materials And Wastes Inventory Matrix Report

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Facility ID **48-000-020015**
Status **Submitted** on 8/9/2024 8:02 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	SUVA 123	**Pounds**	**1990**	**1010**	1990		- Health Acute Toxicity - Health Skin Corrosion - Health Respiratory Skin - Health Serious Eye Damage Eye Target Organ Toxicity - Health Hazard Not Otherwise	EHTANE, 1,1 - DICHLORO-2,2,2-TRIFLUORO	100%		306-83-2
	CAS No	State: Liquid	Storage Container: Other		Pressue: > Ambient	Waste Code					
		Type: Mixture	Days on Site: 365		Temperature: > Ambient						
	TRANE OIL 22	**Pounds**	**60**	**70**	60			WHITE MINERAL OIL	100%		8042-47-5
	CAS No	State: Liquid	Storage Container: Other		Pressue: > Ambient	Waste Code					
		Type: Mixture	Days on Site: 365		Temperature: > Ambient						
	USF A-284 ION EXCHANGE RESIN	**Pounds**	**1060**	**1060**	1060		- Health Acute Toxicity - Health Skin Corrosion - Health Respiratory Skin Target Organ Toxicity	Trimethylamine	70%		609011-18-3
	CAS No	State: Solid	Storage Container: Other		Pressue: Ambient			ED COPOLYMER OF STYRENE AND DIVINYL BENZENE			
		Type: Mixture	Days on Site: 365		Temperature: Ambient	Waste Code		WATER			7732-18-5

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

WASTE-2 Documentation of Waste Management Methods

I certify that all wastes generated at the Valero Cogeneration Facility are properly characterized and managed according to waste management practices described in CTEMS EPL-4001 Container Labeling and Closure Policy and the Benicia Refinery Waste Management Compliance Manual.

Taryn Goodwin 2/27/25

Taryn Goodwin Date
Manager - Environmental Engineering

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

VALERO COGENERATION PROJECT 2024 ANNUAL COMPLIANCE REPORT
Valero Benicia Refinery NPDES CA0005550

WQ-2: Annual Monitoring Data Submitted to RWQCB

The Valero Cogeneration Project sends a small amount of wastewater to the refinery's wastewater treatment system, which after treatment becomes a part of the refinery's effluent. Valero submits its monthly self-monitoring data for the refinery's effluent to the RWQCB electronically via eSMR, the State Board electronic reporting system.

Attached is the 2024 NPDES Compliance Summary Table for the Valero Benicia Refinery, which provides a listing of the refinery's NPDES permit monitoring points and compliance parameters, along with a monthly accounting of the compliance status and number of samples taken each month.

For each month, the entry made in each row (e.g., 0/31) corresponds to the number of samples exceeding the compliance limit versus the number of samples taken during the month. An entry of 0/31 means that no samples exceeded the limit out of 31 (i.e., daily) samples that month.

During the 2024 reporting year, there was 1 sample result that exceeded an NPDES permit limit.

<u>EFF-001 March Chronic Toxicity</u>

On March 18, 2024, Valero was notified by the Outside Contract Laboratory that the 1Q24 Chronic Toxicity test had failed by exceeding the 10 TUc limit (14.9 TUc). Valero notified the Regional Water Board on March 19, 2024 via phone and followed by email. Valero tried in good effort to initiate the accelerated sampling at the end of March but the contract laboratory was not able to conduct the test due to availability of the test species within the specified requirements. The monthly accelerated sampling was initiated on April 22, 2024 and test results showed a passing Chronic Toxicity (2.9 TUc). This concluded the accelerated sampling and Valero Benicia returned to the quarterly chronic toxicity frequency.

VALERO COGENERATION PROJECT
2024 ANNUAL COMPLIANCE REPORT

2024 COMPLIANCE SUMMARY TABLE

Valero Benicia Refinery NPDES CA0005550

2024 COMPLIANE SUMMARY TABLE

VALERO Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Monitoring Point EFF-001														**1/1575**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 3400	0/1	0/19	0/4	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/33
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 1900	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Chemical Oxygen Demand (COD) Eff Daily Maximum lb/day	Max 24000	0/1	0/21	0/4	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/35
Chemical Oxygen Demand (COD) Eff Monthly Average lb/da	Max 13000	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Total Suspended Solids (TSS) Eff Daily Loading lb/day	Max 2400	0/4	0/21	0/8	0/4	0/4	0/5	0/4	0/4	0/5	0/4	0/4	0/5	0/72
Total Suspended Solids (TSS) Eff Monthly Average lb/da	Max 1500	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Oil and Grease Eff Daily Maximum lb/day	Max 1000	0/4	0/21	0/8	0/4	0/4	0/5	0/4	0/4	0/5	0/4	0/4	0/5	0/72
Oil and Grease Eff Monthly Average lb/day	Max 550	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
pH Eff Daily Minimum SU	Min 6	0/31	0/29	0/31	0/30	0/31	0/30	0/31	0/31	0/30	0/31	0/30	0/31	0/366
pH Eff Daily Maximum SU	Max 9	0/31	0/29	0/31	0/30	0/31	0/30	0/31	0/31	0/30	0/31	0/30	0/31	0/366
Sulfide, Total (as S) Eff Daily Maximum lb/day	Max 21	0/1	0/21	0/4	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/35
Sulfide, Total (as S) Eff Monthly Average lb/day	Max 10	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Ammonia, Total (as N) Eff Daily Maximum mg/L	Max 20	0/1	0/21	0/6	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/37
Ammonia, Total (as N) Eff Daily Loading lb/day	Max 2000	0/1	0/21	0/6	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/37
Ammonia, Total (as N) Eff Monthly Average mg/L	Max 5.7	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Ammonia, Total (as N) Eff Monthly Average lb/day	Max 1000	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Acute Toxicity Eff 11Samp 90th% % survival	Min 70	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Acute Toxicity Eff 11Samp MovingMed % survival	Min 90	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chronic Toxicity Eff Daily Maximum TUc	Max 10	0/0	0/0	1/1	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/1	0/0	1/4
Acute Toxicity-Fathead Minnow-survival Eff 11Samp 90th	Min 70	0/4	0/5	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/9
Acute Toxicity-Fathead Minnow-survival Eff 11Samp Movi	Min 90	0/4	0/5	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/9
Acute Toxicity-Rainbow Trout-survival Eff Daily Minimu	Min	0/0	0/0	0/4	0/5	0/4	0/4	0/4	0/4	0/5	0/4	0/4	0/5	0/43
Acute Toxicity-Rainbow Trout-survival Eff 11Samp 90th%	Min 70	0/0	0/0	0/0	0/0	0/3	0/4	0/4	0/4	0/5	0/4	0/4	0/5	0/33
Acute Toxicity-Rainbow Trout-survival Eff 11Samp Movin	Min 90	0/0	0/0	0/0	0/0	0/3	0/4	0/4	0/4	0/5	0/4	0/4	0/5	0/33
Chromium (Total) Eff Daily Loading lb/day	Max 46	0/1	0/21	0/4	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/35
Chromium (Total) Eff Monthly Average lb/day	Max 16	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Chromium (VI) Eff Daily Maximum ug/L	Max 72	0/1	0/15	0/5	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/30
Chromium (VI) Eff Daily Loading lb/day	Max 2.9	0/1	0/15	0/5	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/30
Chromium (VI) Eff Monthly Average ug/L	Max 36	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Chromium (VI) Eff Monthly Average lb/day	Max 1.3	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Copper, Total Eff Daily Maximum ug/L	Max 120	0/1	0/21	0/4	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/35
Copper, Total Eff Monthly Average ug/L	Max 58	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Mercury, Total Eff Daily Maximum ug/L	Max 0.12	0/1	0/0	0/0	0/1	0/0	0/0	0/1	0/0	0/0	0/1	0/0	0/0	0/4
Mercury, Total Eff Monthly Average ug/L	Max 0.079	0/1	0/0	0/0	0/1	0/0	0/0	0/1	0/0	0/0	0/1	0/0	0/0	0/4
Mercury, Total Eff Annual Loading kg/year	Max 0.08	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Nickel, Total Eff Daily Maximum ug/L	Max 430	0/1	0/21	0/4	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/35
Nickel, Total Eff Monthly Average ug/L	Max 230	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
Selenium, Total Eff Monthly Average kg/day	Max 0.34	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12

2024 COMPLIANE SUMMARY TABLE

VALERO Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Cyanide, Total (as CN) Eff Daily Maximum ug/L	Max 42	0/1	0/21	0/5	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/36
Cyanide, Total (as CN) Eff Monthly Average ug/L	Max 19	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/12
TCDD Equivalents Eff Daily Maximum pg/L	Max 0.28	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/1
TCDD Equivalents Eff Monthly Average pg/L	Max 0.14	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/1
Polychlorinated Biphenyls (PCBs), Sum Eff Daily Maximu	Max 0.0015	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Polychlorinated Biphenyls (PCBs), Sum Eff Monthly Aver	Max 0.00095	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-002-A1														**0/10**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/2
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/2
pH Eff Daily Minimum SU	Min 6.5	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/2
pH Eff Daily Maximum SU	Max 8.5	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/2
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-003-A1														**0/13**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

2024 COMPLIANE SUMMARY TABLE

VALERO Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-004-A1														**0/13**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-005-A1														**0/13**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

2024 COMPLIANE SUMMARY TABLE

VALERO Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Monitoring Point EFF-006-A1														**0/13**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-007-A1														**0/13**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-008-A1														**0/13**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

2024 COMPLIANE SUMMARY TABLE

VALERO Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-009-A1														**0/13**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-010-A1														**0/15**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

2024 COMPLIANE SUMMARY TABLE

VALERO Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Monthly Average mg/L	Max 8	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-011-A1														**0/13**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/2
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-012-A1														**0/13**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2

2024 COMPLIANE SUMMARY TABLE

VALERO Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-013-A1														**0/18**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/1	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/4
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Minimum SU	Min 6.5	0/1	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/4
pH Eff Daily Maximum SU	Max 8.5	0/1	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/4
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-014-A1														**0/15**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/0	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Minimum SU	Min 6.5	0/0	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3
pH Eff Daily Maximum SU	Max 8.5	0/0	0/0	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/3

2024 COMPLIANE SUMMARY TABLE

VALERO Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-015-A1														**0/15**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/0	0/1	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/3
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/1	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/3
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/1	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/3
pH Eff Daily Minimum SU	Min 6.5	0/0	0/1	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/3
pH Eff Daily Maximum SU	Max 8.5	0/0	0/1	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/3
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-017-A1														**0/36**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/2	0/2	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/1	0/1	0/9
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/2	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/1	0/5
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/1	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/1	0/4
pH Eff Daily Minimum SU	Min 6.5	0/2	0/2	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/1	0/1	0/9
pH Eff Daily Maximum SU	Max 8.5	0/2	0/2	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/1	0/1	0/9
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

2024 COMPLIANE SUMMARY TABLE

VALERO Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-018-A1														**0/0**
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 48	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Ef	Max 26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Daily Maximum mg/L	Max 360	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chemical Oxygen Demand (COD) Eff Monthly Average mg/L	Max 180	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Daily Maximum mg/L	Max 33	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids (TSS) Eff Monthly Average mg/L	Max 21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
pH Eff Daily Minimum SU	Min 6.5	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
pH Eff Daily Maximum SU	Max 8.5	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Daily Maximum mg/L	Max 0.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (Total) Eff Monthly Average mg/L	Max 0.21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Daily Maximum mg/L	Max 0.062	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chromium (VI) Eff Monthly Average mg/L	Max 0.028	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Daily Maximum mg/L	Max 0.35	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Phenols, Total Eff Monthly Average mg/L	Max 0.17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Monitoring Point EFF-001-A1														**0/0**
Mercury, Total Eff Daily Maximum ug/L	Max 0.0025	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Mercury, Total Eff Monthly Average ug/L	Max 0.002	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

WR-1 Annual Cogeneration Unit Water Use Summary

Valero Cogeneration Project
2024 Summary

	MONTHLY							
	Water Usage						Recycled Water	Off-Set
	GPD					Acre-Feet	Acre-Feet	Acre-Feet
	Gallons	Average	GPM	(min)	(max)	Total	Total	Net
Jan-24	1,370,026	44,194	31	1	67,315	4.2	13.2	9.0
Feb-24	860,872	29,685	21	0	70,185	2.6	13.2	10.6
Mar-24	1,929,212	62,233	43	57,572	69,095	5.9	13.2	7.3
Apr-24	717,048	23,902	17	0	77,962	2.2	13.2	11.0
May-24	13,270	428	0	0	2,336	0.0	13.2	13.2
Jun-24	210	7	0	3	12	0.0	13.2	13.2
Jul-24	251	8	0	2	14	0.0	13.2	13.2
Aug-24	356,994	11,516	8	4	78,581	1.1	13.2	12.1
Sep-24	2,123,041	70,768	49	54,630	83,630	6.5	13.2	6.7
Oct-24	1,934,866	62,415	43	45,116	84,069	5.9	13.2	7.3
Nov-24	1,232,238	41,075	29	36,225	48,636	3.8	13.2	9.4
Dec-24	1,391,668	44,893	31	38,022	57,221	4.3	13.2	8.9

	ANNUAL						
	Water Usage					Recycled Water	Off-Set
	GPD				Acre-Feet	Acre-Feet	Acre-Feet
	Average	GPM	(min)	(max)	Total	Total	Net
2024	**32,594**	**23**	**0**	**84,069**	**37**	**159**	**122**
2023	**56,475**	**53**	**0**	**112,729**	**63**	**125**	**62**

GPD: Gallons per day

CEC Condition of Certification, Water Use Metering, WATER RES-1 & WATER RES-2
Note: Due to flow meter troubles the recyled water values are averaged over the previous 3 years.

Section 4: Post-Certification Changes

No changes were made in 2024.

Section 5: Resolution to Unmet Submittals

There were no unmet submittals or resolutions to unmet submittals in 2024.

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

Section 6: Permits and Filings Involving Other Governmental Agencies

Bay Area Air Quality Management District (BAAQMD)

- Valero Cogeneration Project – 2024 Annual Mass Emissions Report to BAAQMD
- Routine Reports to BAAQMD:
  - Monthly Cogen NOx Report
  - Monthly Cogen CO Report
  - Monthly Cogen Fuel Gas Report (H2S/TRS)
  - Quarterly Cogen SO2 Curtailment Report
  - Quarterly Fuel Gas Sulfur Report
- Source Testing Reports:
  - Quarterly source test reports for SAM measurements
  - Annual source test reports for PM10, POC, SO2 measurements
- Form CEC-1304 - Quarterly Report for Power Plants 10 MW or Greater
- Title V, Renewed - Issued by BAAQMD April 30, 2013

Regional Water Quality Control Board (RWQCB)

- Valero Refinery NPDES Permit Renewal (including Cogeneration operations) RWQCB Order No. R2-2020-0033, CA 0005550: Adopted by RWQCB on December 16, 2020, effective January 1, 2021 through December 31, 2025
- Valero Refinery SWPPP Update (including Cogeneration operations)

Department of Energy (DOE) Energy Information Administration (EIA) reports

- EIA – 860 “Annual Electric Generator Report”
- EIA – 923 “Monthly Power Plant Operations Report”

Solano County CUPA / City of Benicia Fire Dept

- Valero Benicia Refinery 2024 Hazardous Materials Business Plan (including Cogeneration operations)

U. S. EPA

- Valero Benicia Refinery NSPS/MACT Semiannual Reports

Section 7: Projection of 2025 Compliance Activities

Operations:

Maintain cogeneration unit operations in compliance with emission limits and other permit conditions.

Recordkeeping:

Continue collection of data and records and maintain compliance files.

Reporting:

Prepare and submit monthly CEM reports.
Prepare and submit required quarterly, semiannual, and annual reports.

Source Testing:

Conduct quarterly source testing for SAM. Conduct annual source testing for PM10, POC, and SO2.

Continuous Emissions Monitoring Systems (CEMS):

Continue to conduct quarterly accuracy audits (CGA & RATA)
Completion of CEMS NOx and O2 analyzer upgrade
Completion of CEMS GC analyzer upgrade

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

Section 8: 2024 Files

The following onsite compliance files have been established for the Valero Cogeneration unit and contain the information described for the previous year's operating period.

File Number	File Name	File Description
CGN AI-03-02	CEC Annual Compliance Report	Annual Compliance Reports for Cogen required by general conditions of CEC's Commission Decision
CGN AI-03-02	Routine Cogen Quarterly Reports	Cogen Quarterly SO2 Containment Report
CGN AI-03-03	Annual Mass Emissions Report	Cogen Report as required by Permit Conditions #22 and #23
CGN EA-17-00	CGN CEC Compliance Fees	Invoices, Cogen Facility Compliance Fees
CGN WA-03-02	Monthly Cogen Water Use Reports	Cogen Cooling Tower TDS by Conductivity Cogen H2O Report
Fed 60a AI-24-16	FED-60A QA/QC GT-4901/SG-4901	Cogen – CEMS Quality Assurance Plan
SRCTST AI-03-03	BAAQMD Notifications	Notifications of source tests for Cogen
SRCTST AI-03-03	Cogen – Monthly CEMS Report	Cogen - Monthly Gas Turbine and HRSG Monitoring Report Reg. 1-522.8
SRCTST AI-24-00	Monthly CEMS Down & OOC LOGS	2024 Monthly CEMS Downtime & Out of Control Logs
SRCTST AI-21-03	Cogen – Stack Source Tests	Source test for the Cogen Stack and Quarterly Source Test Submittals
SRCTST AI-21-03	SRCTST GT-4901 S-1030	Source Test Reports

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

Section 9: Evaluation of the Onsite Contingency Plan

Onsite Contingency Plan for Unexpected Temporary & Permanent Closure

The Onsite Contingency Plan for Unexpected Temporary and Permanent Closure is reviewed and updated annually.

Cogeneration Unit Operating Procedures

The normal and emergency procedures in the operating procedures manual are reviewed and updated annually.

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

Section 10: Complaints, NOVs, Warnings and Citations

2024 Complaints:

The refinery received no complaints that have been determined to be related to the Cogeneration Unit.

2024 Notices of Violation (NOVs):

The BAAQMD issued the following NOVs for events that were related to the Cogeneration Unit (GT/SG-4901 stack emissions):

BAAQMD NOV #	Date Issued	Date of Event	Description
61858	11/18/2024	8/24/2023	NOV was issued for exceeding the 7.29 lb/hr and 2.5 ppmv @ 15% O2 3-hr avg. NOx limits at SG/GT-4901 on 08/24/2023.
62165	9/18/2024	8/20/2023	NOV was issued for exceeding the 6 ppmvd @15% O2 3-hr average CO limit at GT/SG-4901 on 8/20/23
62811	4/12/2024	8/30/2023	NOV was issued for exceedance of the 500 MMBtu/hr Maximum Firing Rate for GT-4901 at Cogen on 8/30/2023.
62812	4/12/2024	6/3/2023	NOV was issued for failure to continuously operate NOx and O2 CEMS monitoring systems at Cogen on 6/3/2023
62807	3/13/2024	12/27/2023	NOV was issued for failure to continuously operate H2S CEMS monitoring systems at Cogen on 12/27/2023
62806	3/12/2024	3/12/2024	NOV was issued for failure to report period of Mercaptans CEMS inoperation greater than 24 hours by the following working day

VALERO COGENERATION PROJECT

2024 ANNUAL COMPLIANCE REPORT

2024 Warnings and Citations:

The refinery received no other warnings or citations that have been determined to be related to the Cogeneration Unit.