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Filer:	Asha Noorullah
Organization:	Valero Benicia
Submitter Role:	Applicant
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Submitted Electronically

February 27, 2026

Valero Cogeneration Project
2025 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 2025 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,

A handwritten signature in black ink that reads 'Taryn Goodwin'.

Taryn Goodwin
Manager - Environmental Engineering

TWG/AN

Enclosure

Document # 28229



VALERO COGENERATION PROJECT

**2025 ANNUAL COMPLIANCE REPORT FOR
THE CALIFORNIA ENERGY COMMISSION**

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT

TABLE OF CONTENTS

SECTION 1:	Updated Compliance Matrix (Open conditions)
SECTION 2:	Summary of Current Cogeneration Unit Operating Status
SECTION 3:	Documents Required by 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
SECTION 4:	Listing of Post Certification Changes
SECTION 5:	Resolution to Unmet Submittal Deadlines
SECTION 6:	Permits and Filings involving Other Governmental Agencies
SECTION 7:	Projection of 2025 Compliance Activities
SECTION 8:	2025 Additions to the Onsite Compliance File
SECTION 9:	Evaluation of the Onsite Contingency Plan
SECTION 10:	List of Complaints, NOVs, Warnings and Citations

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT

Section 1: Updated Compliance Matrix (Open Conditions)

2025 Annual Compliance Report

Valero Cogeneration Project Conditions of Certification

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

2025 Annual Compliance Report

Valero Cogeneration Project Conditions of Certification

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

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT

Section 2: Summary of Current Cogeneration Unit Operating Status

VALERO COGENERATION PROJECT

2025 ANNUAL COMPLIANCE REPORT

Section 2: Cogeneration Unit Operating Status

The Cogen Unit GT-4901 availability for 2025 was 86.54% including all unplanned and planned maintenance down times (total of 1179 shutdown hours). Lease engine (SN: 185-171) was operated all year.

Planned maintenance:

- Routine PMs were performed (filters, instrument calibrations, etc.)
 - Two semiannual borescopes completed during shutdowns
 - Fire protection system inspection completed
 - Pre and main filters replaced
- Unplanned Outages for the year included:
 - Multiple VBV outages due to worn linkages and faulty actuators
 - A unit shutdown to troubleshoot low performance (PS3 topping mode)

Major work:

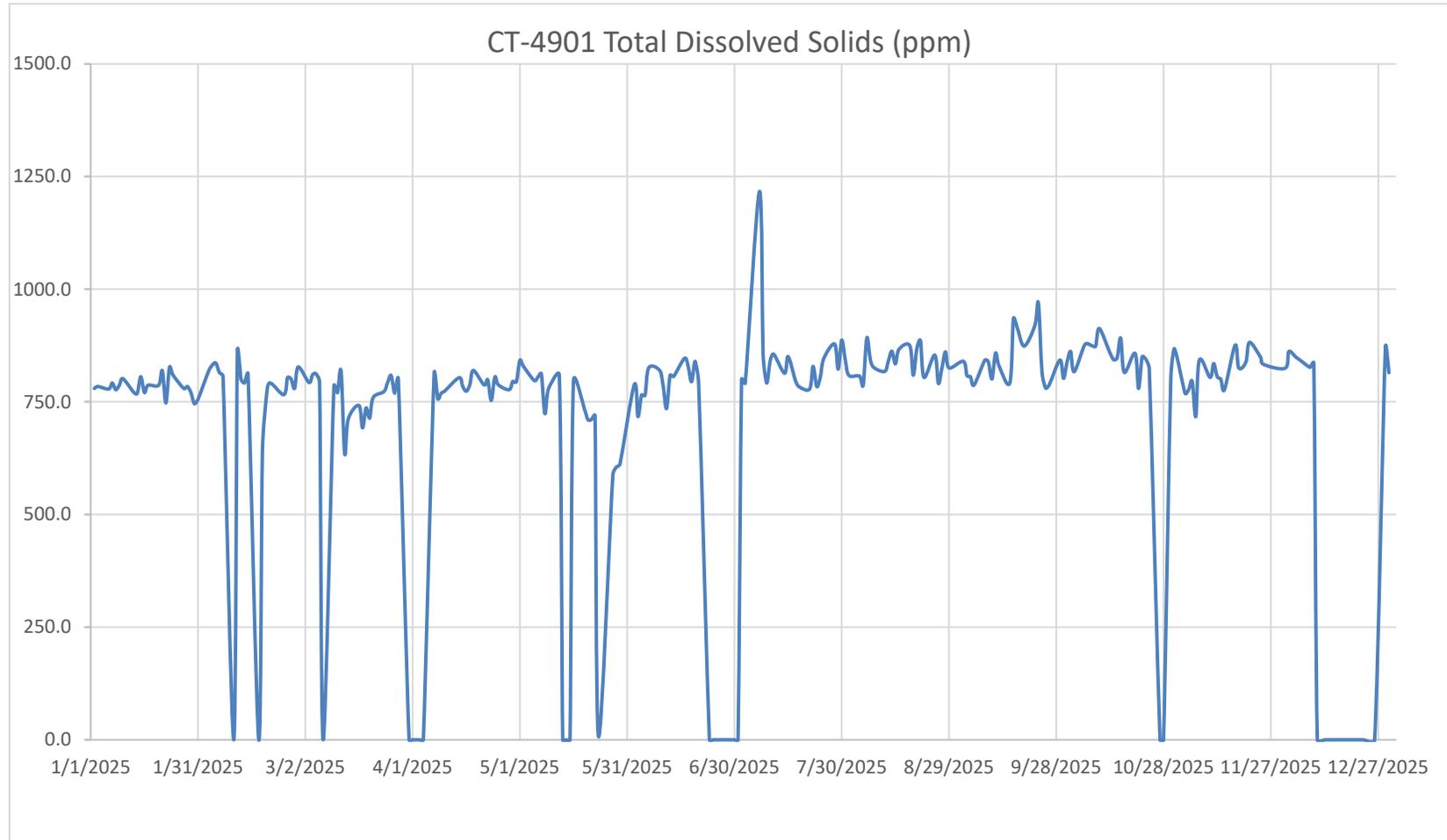
- March-April Outage: Unit tripped on a failed VBV linkage. Had several start attempts upon restart.
- May Outage: Unit shutdown due to low performance. Inspection of P3 and P48 sensing lines and transmitters. Included semiannual borescope.
- June Outage: Shutdown to replace HRSG NOx catalyst. Extended outage due to turbine lube oil contamination and subsequent lube oil flush.
- October Outage: Control system trip on “VBV Null Shift” in VBV actuator feedback. VBV door linkage replaced. Issues on startup due flying takeover and LP speed sensor.

December Outage: Control system trip on “VBV Null Shift” in VBV actuator feedback. VBV actuators replaced and controls recalibrated. Issues on start-up due to flying takeover.

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT

Section 3: Documents Required by Specific Conditions

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT
AQ-56 Cooling Tower TDS Content



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

**VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT**

Compliance with monthly and annual TDS average limits

Jan	783
Feb	796
March	764
April	787
May	699
June	795
July	844
August	837
September	842
October	849
November	814
December	841

Annual Average = 804 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
2025 ANNUAL COMPLIANCE REPORT**

2025 COMPLIANCE SUMMARY TABLE
Valero Benicia Refinery NPDES CA0005550

HAZ-1 Hazardous Materials Contained at Cogeneration Unit

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT

HAZ-1 Hazardous Materials Contained at Cogeneration Unit

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Valero	Chemical Location C5 COGEN	CERS ID 10133161
Facility Name Valero Benicia Refinery		Facility ID 48-000-020015
3400 E 2nd Street, Benicia 94510		Status Submitted on 2/19/2025 10:34 AM

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

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Valero	Chemical Location C5 COGEN	CERS ID 10133161
Facility Name Valero Benicia Refinery		Facility ID 48-000-020015
3400 E 2nd Street, Benicia 94510		Status Submitted on 2/19/2025 10:34 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	MOBIL DTE 25	Pounds	800	400	400		- Health Acute Toxicity	NON HAZARDOUS PROPRIETARY MIXTURE		
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
		Liquid	Steel Drum		Ambient					
		<u>Type</u>			<u>Temperature</u>					
		Mixture	Days on Site: 365		Ambient					
	MOBIL JET OIL II	Pounds	2490	1250	2490		- Health Acute Toxicity	TRICRESYL PHOSPHATE	5%	1330-78-5
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	- Health Reproductive Toxicity	1-NAPHTHYLAMINE, N-PHENYL	5%	90-30-2
		Liquid	Aboveground Tank, Steel Drum,		Ambient		- Health Skin Corrosion Irritation			
		<u>Type</u>	Other		<u>Temperature</u>		- Health Respiratory Skin Sensitization			
		Mixture	Days on Site: 365		Ambient		- Health Serious Eye Damage Eye Irritation			
							- Health Specific Target Organ Toxicity			
DOT: 8 - Corrosives (Liquids and Solids)	Nalco 3DTrasar 3DT230	Pounds	1056	506	423		- Physical Gas Under Pressure	Sulfuric Acid	5%	✓ 7664-93-9
	<u>CAS No</u> <input checked="" type="checkbox"/> EHS	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	- Physical Explosive	Phosphoric Acid	5%	7664-38-2
	7664-93-9	Liquid	Tote Bin		Ambient		- Physical Corrosive To Metal	Benzotriazole	5%	95-14-7
		<u>Type</u>			<u>Temperature</u>		- Health Acute Toxicity			
		Mixture	Days on Site: 365		Ambient		- Health Skin Corrosion Irritation			
							- Health Respiratory Skin Sensitization			
							- Health Serious Eye Damage Eye Irritation			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Valero	Chemical Location C5 COGEN	CERS ID 10133161
Facility Name Valero Benicia Refinery		Facility ID 48-000-020015
3400 E 2nd Street, Benicia 94510		Status Submitted on 2/19/2025 10:34 AM

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

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Valero	Chemical Location	CERS ID 10133161
Facility Name Valero Benicia Refinery	C5 COGEN	Facility ID 48-000-020015
3400 E 2nd Street, Benicia 94510		Status Submitted on 2/19/2025 10:34 AM

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

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Valero	Chemical Location C5 COGEN	CERS ID 10133161
Facility Name Valero Benicia Refinery		Facility ID 48-000-020015
3400 E 2nd Street, Benicia 94510		Status Submitted on 2/19/2025 10:34 AM

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

VALERO COGENERATION PROJECT
2025 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 2/27/21

Taryn Goodwin Date
Manager - Environmental Engineering

VALERO COGENERATION PROJECT

2025 ANNUAL COMPLIANCE REPORT

VALERO COGENERATION PROJECT 2025 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 2025 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 2025 reporting year, there were 0 sample results that exceeded an NPDES permit limit.

VALERO COGENERATION PROJECT

2025 ANNUAL COMPLIANCE REPORT

WQ-2 2025 NPDES Exceedance Summary			
# Exceedances	Pollutant	Month	Comments in Monthly CRWQCB Reports
0	Total		No exceedances.

2025 COMPLIANCE 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														0/1616
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Eff Daily Maximum lbs/day	Max 3400	0/1	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Eff Monthly Average lb/day	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	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
Chemical Oxygen Demand (COD) Eff Monthly Average lb/day	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	0/23	0/5	0/4	0/4	0/6	0/4	0/5	0/4	0/4	0/5	0/4	0/72
Total Suspended Solids (TSS) Eff Monthly Average lb/day	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	0/23	0/5	0/4	0/5	0/5	0/4	0/5	0/4	0/4	0/5	0/4	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	0/28	0/31	0/30	0/31	0/30	0/31	0/31	0/30	0/31	0/30	0/31	0/365
pH Eff Daily Maximum SU	Max 9	0/31	0/28	0/31	0/30	0/31	0/30	0/31	0/31	0/30	0/31	0/30	0/31	0/365
Sulfide, Total (as S) Eff Daily Maximum lb/day	Max 21	0/1	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
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	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
Ammonia, Total (as N) Eff Daily Loading lb/day	Max 2000	0/1	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
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
Chronic Toxicity Eff Daily Maximum TUc	Max 10	0/0	0/1	0/0	0/1	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/1	0/4
Acute Toxicity-Rainbow Trout-survival Eff Daily Minimum	Min	0/4	0/7	0/5	0/4	0/4	0/5	0/4	0/4	0/4	0/4	0/4	0/5	0/54
Acute Toxicity-Rainbow Trout-survival Eff 11-Sample 90th Percentile	Min 70	0/4	0/7	0/5	0/4	0/4	0/5	0/4	0/4	0/4	0/4	0/4	0/5	0/54
Acute Toxicity-Rainbow Trout-survival Eff 11-Sample Moving Median	Min 90	0/4	0/7	0/5	0/4	0/4	0/5	0/4	0/4	0/4	0/4	0/4	0/5	0/54
Chromium (Total) Eff Daily Loading lb/day	Max 46	0/1	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
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	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
Chromium (VI) Eff Daily Loading lb/day	Max 2.9	0/1	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
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	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
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	0/0	0/2	0/0	0/1	0/0	0/0	0/1	0/2	0/0	0/1	0/0	0/0	0/7
Mercury, Total Eff Monthly Average ug/L	Max 0.079	0/0	0/1	0/0	0/1	0/0	0/0	0/1	0/1	0/0	0/1	0/0	0/0	0/5
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	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
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
Cyanide, Total (as CN) Eff Daily Maximum ug/L	Max 42	0/1	0/23	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/34
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 Equivalent Eff Daily Maximum pg/L	Max 0.28	0/0	0/2	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/3
TCDD Equivalent Eff Monthly Average pg/L	Max 0.14	0/0	0/1	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/2

2025 COMPLIANCE SUMMARY TABLE
Valero Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Polychlorinated Biphenyls (PCBs), Sum Eff Daily Maximum ug/L	Max 0.0015	0/0	0/2	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/3
Polychlorinated Biphenyls (PCBs), Sum Eff Monthly Average ug/L	Max 0.00095	0/0	0/1	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/2
Monitoring Point EFF-002-A1														0/10
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Eff Daily Maximum lbs/day	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) Eff Monthly Average lb/day	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	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Maximum SU	Max 8.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	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														0/10
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Eff Daily Maximum lbs/day	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) Eff Monthly Average lb/day	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	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Maximum SU	Max 8.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	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-004-A1														0/10

2025 COMPLIANCE SUMMARY TABLE
Valero Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Total Organic Carbon (TOC) Eff Daily Maximum mg/L	Max 110	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Maximum SU	Max 8.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	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-009-A1														0/10
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Eff Daily Maximum lbs/day	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) Eff Monthly Average lb/day	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	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Maximum SU	Max 8.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	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-010-A1														0/10
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Eff Daily Maximum lbs/day	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) Eff Monthly Average lb/day	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	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2

2025 COMPLIANCE SUMMARY TABLE
Valero Benicia Refinery NPDES CA0005550

PARAMETER	LIMIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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														0/10
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Eff Daily Maximum lbs/day	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) Eff Monthly Average lb/day	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	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
Oil and Grease Eff Monthly Average mg/L	Max 8	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Minimum SU	Min 6.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/2
pH Eff Daily Maximum SU	Max 8.5	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	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-017-A1														0/68
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) Eff Daily Maximum lbs/day	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) Eff Monthly Average lb/day	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	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/1	0/1	0/6
Oil and Grease Eff Daily Maximum mg/L	Max 15	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/1	0/1	0/6
Oil and Grease Eff Monthly Average mg/L	Max 8	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/1	0/1	0/6
pH Eff Daily Minimum SU	Min 6.5	0/1	0/8	0/4	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/4	0/7	0/25
pH Eff Daily Maximum SU	Max 8.5	0/1	0/8	0/4	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/4	0/7	0/25
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-018-A1														0/0

VALERO COGENERATION PROJECT

2025 ANNUAL COMPLIANCE REPORT

WR-1 Annual Cogeneration Unit Water Use Summary

Valero Cogeneration Project 2025 Summary

MONTHLY								
Water Usage							Recycled Water	Off-Set
GPD					Acre-Feet	Acre-Feet	Acre-Feet	
Gallons	Average	GPM	(min)	(max)	Total	Total	Net	
Jan-25	1,697,599	54,761	38	21,562	78,193	5.2	13.4	8.2
Feb-25	1,785,439	63,766	44	0	96,971	5.5	12.1	6.6
Mar-25	2,459,239	79,330	55	0	110,947	7.5	13.0	5.5
Apr-25	2,479,603	82,653	57	1,657	99,684	7.6	10.9	3.3
May-25	1,690,413	54,529	38	3,017	87,839	5.2	12.3	7.1
Jun-25	1,193,817	39,794	28	5	66,229	3.7	12.7	9.0
Jul-25	1,960,472	63,241	44	18,554	71,870	6.0	14.0	8.0
Aug-25	2,478,114	79,939	56	70,407	105,161	7.6	15.0	7.4
Sep-25	2,641,138	88,038	61	71,829	111,706	8.1	14.3	6.2
Oct-25	1,478,871	47,706	33	2	84,656	4.5	14.2	9.7
Nov-25	1,246,461	41,549	29	1	74,837	3.8	13.4	9.6
Dec-25	634,634	20,472	14	0	48,960	1.9	12.2	10.2

ANNUAL								
Water Usage							Recycled Water	Off-Set
GPD					Acre-Feet	Acre-Feet	Acre-Feet	
	Average	GPM	(min)	(max)	Total	Total	Net	
2025	59,648	41	0	111,706	67	158	91	
2024	32,594	23	0	84,069	37	159	122	

GPD: Gallons per day

CEC Condition of Certification, Water Use Metering, WATER RES-1 & WATER RES-2

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT

Section 4: Post-Certification Changes

No changes were made in 2025.

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT

Section 5: Resolution to Unmet Submittals

There were no unmet submittals or resolutions to unmet submittals in 2025.

VALERO COGENERATION PROJECT

2025 ANNUAL COMPLIANCE REPORT

Section 6: Permits and Filings Involving Other Governmental Agencies

Bay Area Air District (BAAD)

- Valero Cogeneration Project – 2025 Annual Mass Emissions Report to BAAD
- Routine Reports to BAAD:
 - 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 BAAD 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 2025 Hazardous Materials Business Plan (including Cogeneration operations)

U. S. EPA

- Valero Benicia Refinery NSPS/MACT Semiannual Reports

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT

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

2025 ANNUAL COMPLIANCE REPORT

Section 8: 2025 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	BAAD 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	2025 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
2025 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
2025 ANNUAL COMPLIANCE REPORT

Section 10: Complaints, NOVs, Warnings and Citations

2025 Complaints:

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

2025 Notices of Violation (NOVs):

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

BAAD NOV #	Date Issued	Date of Event	Description
61875	2/13/2025	2/4/2024	The NOV was issued for exceeding the 2.5 ppm NOx 3-hr average limit at GT/SG-4901 on 2/4/2024.
63897	6/9/2025	10/10/2024	The NOV was issued for exceeding the 6 ppm CO 3-hr average limit at GT/SG-4901 on 10/10/2024.

VALERO COGENERATION PROJECT
2025 ANNUAL COMPLIANCE REPORT

2025 Warnings and Citations:

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