



Benicia Refinery • Valero Refining Company - California

3400 East Second Street • Benicia, California 94510-1097 • Telephone (707) 745-7011 • Facsimile (707) 745-7339

TV Tracking #: 371 (A0901)

TV Tracking #: 372 (B2626)

TV Tracking #: 373 (B5574)

Sent via email

January 27, 2022

1. RECEIVED IN ENFORCEMENT: 01/27/2022

Refinery, Asphalt Plant & B5574
December 2020 30-Day Title V Deviation Reports
Monitoring Report for July 2021 – December 2021

Mr. Jeff Gove
Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105

Dear Mr. Gove:

Per Standard Condition I.F of Valero's Title V permits issued for the Fuels Refinery (B2626) and the Asphalt Plant (A0901) and Permit B5574, enclosed are 30-day deviation reports summarizing December 2021 Title V deviations for all three facilities. Also enclosed are the certified Semi-annual Monitoring Title V reports for all three facilities. Please note that the reporting convention for these reports is that deviations *discovered* during the calendar month are included along with any on-going events, regardless of when the event started.

The format and content of these reports is consistent with guidance provided by Mr. Steve Hill, BAAQMD Permit Evaluation Manager, in his letter dated January 8, 2004.

Please contact me at 707-745-7940 if you have any questions or need further information.

Sincerely,

Rina Putnam
Staff Environmental Engineer

Ecc : Chris Thompson, cthompson@baaqmd.gov
compliance@baaqmd.gov

Enclosures

BAAQMD Title V Permit 30 Day Deviation Summary Report

From 12/1/2021 to 12/31/2021

B2626 Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 945101097

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

Event Started: 12/6/2021 10:38 AM Stopped: 12/9/2021 2:25 PM Ongoing Event

Source Number: unassigned-Tank, Refrigerated Butane Tank, TK-1726

Abatement Device:

Emission Point:

May have resulted in a violation of:

Permit:

AQMD: 8-5

Other:

1180 Event Description: PV Vent on Tk1726 exceeded 500ppm emission standard during BAAQMD inspection for fugitive emissions inspection.

Probable Cause: PV vents not gas tight

Corrective actions or preventative steps taken: Contacted Valero Maintenance to obtain spare PV vents and to schedule crew and crane to replace PV vent. SV replaced on 12/9/21, remonitored and the SV was gas tight and resolved.

Episode ID #:

NOV:

BAAQMD Title V Permit 30 Day Deviation Summary Report

From 12/1/2021 to 12/31/2021

B2626 Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 945101097

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

Event Startec 12/10/2021 1:00 AM Stopped: 12/10/2021 8:00 AM Ongoing Event

Source Number: S1031-Heat Recovery Steam Generator, SG-4901

Abatement Device:

Emission Point: P60-Cogen Stack GT/SG-4901

May have resulted in a violation of:

Permit: 19177.19a/b

AQMD:

Other:

1184 Event Description: On 12/10/21, the Cogen NOx analyzer indicated an excess. The following indicated excesses are being filed in an abundance of caution. The NOx 1hr average (ppm) was exceeded between 12/10/21 1:00-6:00 AM, the NOx 3hr average (ppm) was exceeded between 12/10/21 2:00-8:00 AM, and the mass emissions limit (lb/hr) was intermittently exceeded between 12/10/21 1:00-6:00 AM.

Probable Cause: After troubleshooting, a failed sensor was found.

Corrective actions or preventative steps taken: A processor board was replaced to correct the failed sensor.

Episode ID #:

NOV:

BAAQMD Title V Permit 30 Day Deviation Summary Report

From 12/1/2021 to 12/31/2021

B2626	Valero Benicia Refinery
Facility Address:	Mailing Address:
3400 East Second Street Benicia, CA 945101097	3400 East Second Street Benicia, CA 945101097
Contact: Taryn Wier	Title: Manager - Environmental Engineering Phone: (707) 745-7475

Event Startec 12/31/2021 5:00 PM Stopped: _____ Ongoing Event

Source Number:	S8-Coke Silos Primary Scrubber, CYC-1901
Abatement Device:	A10-Baghouse on Coke Silos
Emission Point:	

May have resulted in a violation of:

Permit:	24198 Part 7
AQMD:	BAAQMD 6-1-504
Other:	

1186 Event Description: AMMENDMENT: Valero did not meet the requirement to source test S-8 annually due to the source test contractor cancelling due to inclement weather. The source test could not be rescheduled within the calendar year, and Valero requests an extension. A compliance test has been scheduled for the week of 1/31/22, at which time a stop time will be entered and an amended deviation report will be resubmitted.

Valero did not meet the requirement to source test S-8 annually due to the source test contractor cancelling due to inclement weather. The source test could not be rescheduled within the calendar year, and Valero requests an extension. A compliance test has been scheduled for 1/13/22, at which time a stop time will be entered and an amended deviation report will be resubmitted.

Probable Cause: Source test company cancelled source test due to inclement weather and could not reschedule prior to end of year. We have requested an extension to perform source test at earliest possible date in 2022.

Corrective actions or preventative steps taken: Source test rescheduled for the earliest date the source test company had available.

Episode ID #: _____ NOV: _____

BAAQMD Title V Permit
30 Day Deviation Summary Report

From 12/1/2021 to 12/31/2021

B2626

Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 945101097

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

x 

Signature of Responsible Official

Joshua Tulino

Print Name

Vice President and General Manager

Title

1/27/22

Date

BAAQMD Title V Permit
30 Day Deviation Summary Report

From 12/1/2021 to 12/31/2021

A0901 Valero Benicia Asphalt Plant

Facility Address:

3001 Park Road
Benicia, CA 94510

Mailing Address:

3001 Park Road
Benicia, CA 94510

Contact: Taryn Wier

Title: Manager - Environmental Engineering

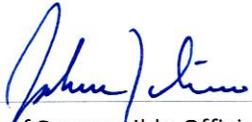
Phone: (707) 745-7475

No deviation for this time period.

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

x



Signature of Responsible Official

Joshua Tulino

Print Name

Vice President and General Manager

Title

1/27/22

Date

Wednesday, January 12, 2022

BAAQMD Title V Permit
30 Day Deviation Summary Report

From 12/1/2021 to 12/31/2021

B5574 Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 94510

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

No deviation for this time period.

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

x



Signature of Responsible Official

Joshua Tulino

Print Name

Vice President and General Manager

Title

1/27/22
Date

Wednesday, January 12, 2022

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626	Valero Benicia Refinery
Facility Address:	Mailing Address:
3400 East Second Street Benicia, CA 945101097	3400 East Second Street Benicia, CA 945101097
Contact: Taryn Wier	Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Start: 8/13/2021 10:15 AM Stopped: 8/13/2021 8:30 PM Ongoing Event

May have resulted in a violation of:

Source Number: S1-Acid Gas Burner, F-1301A; S2-Acid Gas Burner, F-1301B	Permit: <input style="width: 100%;" type="text"/>
Abatement Device: A14-SGU-A Incinerator (use only for shutdown/upsets/emergencies); A15-SGU-B Incinerator (use only for shutdown/upsets/emergencies)	AQMD: 9-1-307
Emission Point: P1-Main Stack Emission Point, P-1	Other: <input style="width: 100%;" type="text"/>

1167 Event Description: The Main Stack SO2 concentration was above the hourly limit of 250 ppmv between the hours of 8/13/21 11:00 and 8/13/21 20:00. The average SO2 concentration during this period was 15,280 ppm.

Probable Cause: Tail Gas Unit B trip resulted in routing both SRU trains to the incinerators in order to mitigate odors and ensure the safety of the personnel, equipment, and community per procedures. Incident is under investigation.

Corrective actions or preventative steps taken: Tail Gas Unit was started back up.

Episode ID #: 08B34

NOV:

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626	Valero Benicia Refinery
Facility Address:	Mailing Address:
3400 East Second Street Benicia, CA 945101097	3400 East Second Street Benicia, CA 945101097
Contact: Taryn Wier	Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Start: 7/27/2021 6:00 PM Stopped: 7/27/2021 8:00 PM Ongoing Event

Source Number: <u>S37-Waste Heat Boiler, SG-702</u>	Permit: <u>16386.1</u>
Abatement Device: <u> </u>	AQMD: <u> </u>
Emission Point: <u> </u>	Other: <u> </u>

May have resulted in a violation of:

1171 Event Description: On 7/27/21 from 18:00 to 20:00 clock hours, the SG/GT702 analyzer indicated an excess of 9.87ppm NOX 3-hour average limit (9ppm/3-hour) as a result of an analyzer sample saturation, ambient temperatures and analyzer sample heater conditions. Valero analysis of this event indicates the NOX emissions are less than 9ppm during this event. Valero is filing this indicated excess in an abundance of caution because the NOX detected at the analyzer was a result of the analyzer reading an ambient temperature induced elevated NOX reading. The analyzer sample is heated and in the presence of aqueous NH3 on days with high ambient temperature, Valero has determined the NH3 is converted to NOX in the analyzer and does not represent the emissions conditions in the stack. Trend analysis of a similar event the following days supports the elevated NOX readings induced by ambient temperatures and the sample heater in the analyzer system.

Probable Cause: Analyzer sample saturation, ambient temperatures and analyzer sample heater conditions.

Corrective actions or preventative steps taken: Steps taken to mitigate included confirmation of stable operations of fuel combustion and steam production, adjustments of the NH3 addition to the unit, CH monitoring, analyzer checks and troubleshooting.

Episode ID #: 08B00

NOV:

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626	Valero Benicia Refinery	
Facility Address: 3400 East Second Street Benicia, CA 945101097	Mailing Address: 3400 East Second Street Benicia, CA 945101097	
Contact: Taryn Wier	Title: Manager - Environmental Engineering	Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Start: <u>9/30/2021 12:00 PM</u> Stopped: <u>9/30/2021 3:00 PM</u> <input type="checkbox"/> Ongoing Event

Source Number: <u>S1030-Combustion Turbine Generator, GT-4901</u>
Abatement Device: <u></u>
Emission Point: <u>P60-Cogen Stack GT/SG-4901</u>

May have resulted in a violation of:

Permit: <u>19177.19b</u>
AQMD: <u></u>
Other: <u></u>

1172 Event Description: Cogen GT4901 3-hour average NOX 2.5 ppm concentration limit was exceeded on 9/30/21 for three hours, from 12:00PM to 3:00PM. The average concentration for the duration of the event was 3.9 ppm.

Probable Cause: Compressor trip and then Cogen shutdown caused by loss of electrical substation. Power failure.

Corrective actions or preventative steps taken: Power was restored and unit normalized.

Episode ID #: 08C08

NOV:

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626	Valero Benicia Refinery
Facility Address:	Mailing Address:
3400 East Second Street Benicia, CA 945101097	3400 East Second Street Benicia, CA 945101097
Contact: Taryn Wier	Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Start: 10/2/2021 4:00 AM Stopped: 12/9/2021 5:00 AM Ongoing Event

Source Number:	S6-Coker Burner, R-902; S1059-CO Furnace F-105; S1060-CO Furnace F-106
Abatement Device:	A1059-Flue Gas Scrubber SCR
Emission Point:	P1059-FGS Stack ST-5601

May have resulted in a violation of:

Permit:	
AQMD:	6-1-301; 6-1-302; SIP 6-301; SIP 6-302; 6-1-310; SIP 6-310
Other:	

1173 Event Description: The Flue Gas Scrubber (FGS) parametric variable "delta P across the Agglo Filtering Module (AFM)" was below the hourly minimum limit of 19 inches of H2O intermittently beginning at 10/2/2021 at 4:00.

Probable Cause: FCCU was shutdown and Coker was running at low rates. It is not possible to meet this hourly parametric limit when both the FCCU Unit and Coker are not running at normal rates. This hourly parametric limit was established during a performance test conducted when both the Cat and Coker units were running. Benicia's unique configuration of a having Flue Gas Scrubber which abates both units makes compliance impossible during this refinery configuration.

Corrective actions or preventative steps taken: FCCU was started up and returned to normal operating rates.

Episode ID #: 08C15

NOV:

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626	Valero Benicia Refinery
Facility Address:	Mailing Address:
3400 East Second Street Benicia, CA 945101097	3400 East Second Street Benicia, CA 945101097
Contact: Taryn Wier	Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Start: 10/3/2021 7:02 PM Stopped: 12/7/2021 9:25 PM Ongoing Event

Source Number: <input style="width: 90%;" type="text"/>	Permit: <input style="width: 90%;" type="text"/>
Abatement Device: <input style="width: 90%;" type="text"/>	AQMD: <input style="width: 90%;" type="text"/>
Emission Point: <input style="width: 90%;" type="text"/>	Other: <input style="width: 90%;" type="text"/>

May have resulted in a violation of:

Permit:	<input style="width: 90%;" type="text" value="Condition 24198, Part 17"/>
AQMD:	<input style="width: 90%;" type="text" value="6-1-302; SIP 6-302"/>
Other:	<input style="width: 90%;" type="text"/>

1174 Event Description: AMENDED: On 10/1/2021, the FCCU was in the process of being shutdown for planned maintenance. Shutdown procedures require the Emergency Vent Stack (P-69) water seal to be drained in order to isolate the unit in a safe manner. On 10/3/21, the dumpstack indicated a breakthrough starting at 10/03/21 19:02 due to draining the water seal level per shutdown procedures. On 10/4/2021 while FCCU was shutdown, the water seal level at the P-69 Emergency Vent Stack was removed. This excess is being submitted pursuant to Condition 24198, Part 17. BAAQMD inspector indicated excess of max 2 Ringelmann same day from offsite. Requested documentation, not provided, Valero can not confirm accuracy of his assessment. Onsite contractor indicated max reading of 1 Ringelmann from 9:30-9:55 hrs. A 30 day follow-up letter will be submitted per Permit Condition 24198, Part 17. The water seal was re-established on 12/7/21 at 21:25.

On 10/1/2021, the FCCU was in the process of being shutdown for planned maintenance. Shutdown procedures require the Emergency Vent Stack (P-69) water seal to be drained in order to isolate the unit in a safe manner. On 10/4/2021 while FCCU was shutdown, the water seal level at the P-69 Emergency Vent Stack was removed. This excess is being submitted pursuant to Condition 24198, Part 17. BAAQMD inspector indicated excess of max 2 Ringelmann same day from offsite. Requested documentation, not provided, Valero can not confirm accuracy of his assessment. Onsite contractor indicated max reading of 1 Ringelmann from 9:30-9:55 hrs. A 30 day follow-up letter will be submitted per Permit Condition 24198, Part 17.

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626 Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 945101097

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Probable Cause: The FCCU/CKR Dump Stack P-69 is used during various scenarios (such as shutdown and startup) as part of normal procedures to safely operate the unit, during which time there is no CO gas present (and therefore no PM present) and no/low air flow. Per procedure, the water seal was drained to install a unit blind.
While installing the unit blind, BAAQMD inspector indicated excess of max 2 Ringelmann same day from offsite. Onsite contractor indicated max reading of 1 Ringelmann from 9:30-9:55 hr.
The water seal at Emergency Vent Stack (P-69) was reestablished.

Corrective actions or preventative steps taken: The water seal level was reestablished.

Episode ID #: 08C21

NOV:

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626 Valero Benicia Refinery		
Facility Address: 3400 East Second Street Benicia, CA 945101097	Mailing Address: 3400 East Second Street Benicia, CA 945101097	
Contact: Taryn Wier	Title: Manager - Environmental Engineering	Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Start: <u>10/4/2021 1:00 AM</u> Stopped: <u>10/4/2021 3:00 PM</u> <input type="checkbox"/> Ongoing Event
--

May have resulted in a violation of:

Source Number: <u>S37-Waste Heat Boiler, SG-702</u>	Permit: <u>16386</u>
Abatement Device: <u></u>	AQMD: <u></u>
Emission Point: <u></u>	Other: <u></u>

1177 Event Description: On 10/4/21 from 1:00 to 10:00 clock hours and 14:00 to 15:00 clock hours, the SG/GT702 analyzer indicated an excess of 15.52 ppm NOX 3-hour average limit (9ppm/3-hour) as a result of an analyzer sample saturation and analyzer sample heater conditions.

Valero engineering analysis of this event indicates the NOX emissions are less than 9ppm during this event.

Valero is filing this indicated excess in an abundance of caution because the NOX detected at the analyzer was a result of the analyzer reading an ambient temperature induced elevated NOX reading. The analyzer sample is heated and in the presence of aqueous NH3 Valero has determined the NH3 is converted to NOX in the analyzer and does not represent the emissions conditions in the stack.

Valero I&E maintenance occurred during this time while troubleshooting. The calculated indicated excess includes data substitution.

Probable Cause: Analyzer sample saturation, ambient temperatures and analyzer sample heater conditions. The NH3 system over compensated because GT-702 was already shutdown.

Corrective actions or preventative steps taken: Steps taken to mitigate included confirmation of stable operations of fuel combustion and steam production, adjustments of the NH3 addition to the unit, CH monitoring, analyzer checks and troubleshooting.

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626	Valero Benicia Refinery
Facility Address:	Mailing Address:
3400 East Second Street Benicia, CA 945101097	3400 East Second Street Benicia, CA 945101097
Contact: Taryn Wier	Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Episode ID #: 08C18

NOV:

Event Start: <u>11/8/2021 9:00 AM</u> Stopped: <u>11/10/2021 2:35 PM</u> <input type="checkbox"/> Ongoing Event

May have resulted in a violation of:

Source Number: <u>unassigned-Tank, Refrigerated Butane Tank, TK-1726</u>	Permit: <u></u>
Abatement Device: <u></u>	AQMD: <u>8-5-306.2</u>
Emission Point: <u></u>	Other: <u></u>

1179 Event Description: PV Vents on Tk1726 exceeded 500ppm emission standard during 2nd half 2021 routine fugitive emissions inspection. Valve replacement efforts completed 11/10/2021.

Probable Cause: PV vents not gas tight

Corrective actions or preventative steps taken: Contacted Valero Maintenance to obtain spare PV vents and to schedule crew and crane to replace PV vents.

Episode ID #:

NOV:

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626	Valero Benicia Refinery	
Facility Address:		Mailing Address:
3400 East Second Street Benicia, CA 945101097		3400 East Second Street Benicia, CA 945101097
Contact: Taryn Wier	Title: Manager - Environmental Engineering	Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Start: 12/10/2021 1:00 AM Stopped: 12/10/2021 8:00 AM Ongoing Event

Source Number:	S1031-Heat Recovery Steam Generator, SG-4901
Abatement Device:	
Emission Point:	P60-Cogen Stack GT/SG-4901

May have resulted in a violation of:

Permit:	19177.19a/b
AQMD:	
Other:	

1184 Event Description: On 12/10/21, the Cogen NOx analyzer indicated an excess. The following indicated excesses are being filed in an abundance of caution. The NOx 1hr average (ppm) was exceeded between 12/10/21 1:00-6:00 AM, the NOx 3hr average (ppm) was exceeded between 12/10/21 2:00-8:00 AM, and the mass emissions limit (lb/hr) was intermittently exceeded between 12/10/21 1:00-6:00 AM.

Probable Cause: After troubleshooting, a failed sensor was found.

Corrective actions or preventative steps taken: A processor board was replaced to correct the failed sensor.

Episode ID #:

NOV:

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626 Valero Benicia Refinery	
Facility Address: 3400 East Second Street Benicia, CA 945101097	Mailing Address: 3400 East Second Street Benicia, CA 945101097
Contact: Taryn Wier	Title: Manager - Environmental Engineering Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Start: <u>12/31/2021 5:00 PM</u> Stopped: _____ <input checked="" type="checkbox"/> Ongoing Event	
Source Number: <u>S8-Coke Silos Primary Scrubber, CYC-1901</u>	May have resulted in a violation of:
Abatement Device: <u>A10-Baghouse on Coke Silos</u>	Permit: <u>24198 Part 7</u>
Emission Point: _____	AQMD: <u>BAAQMD 6-1-504</u>
	Other: _____

1186 Event Description: AMMENDMENT: Valero did not meet the requirement to source test S-8 annually due to the source test contractor cancelling due to inclement weather. The source test could not be rescheduled within the calendar year, and Valero requests an extension. A compliance test has been scheduled for the week of 1/31/22, at which time a stop time will be entered and an amended deviation report will be resubmitted.

Valero did not meet the requirement to source test S-8 annually due to the source test contractor cancelling due to inclement weather. The source test could not be rescheduled within the calendar year, and Valero requests an extension. A compliance test has been scheduled for 1/13/22, at which time a stop time will be entered and an amended deviation report will be resubmitted.

Probable Cause: Source test company cancelled source test due to inclement weather and could not reschedule prior to end of year. We have requested an extension to perform source test at earliest possible date in 2022.

Corrective actions or preventative steps taken: Source test rescheduled for the earliest date the source test company had available.

Episode ID #:

NOV:

BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B2626

Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 945101097

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

x



Signature of Responsible Official

Joshua Tulino

Print Name

Vice President and General Manager

Title

1/27/22

Date

BAAQMD Title V Permit 6 Month Monitoring Report

From 7/1/2021 to 12/31/2021

B2626 Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

<i>Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:</i>	CEM	GLM	Fuel Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/ LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Temp.	VOC	Guage Press.
Ref: 1168 Event Started: <u>7/5/2021 7:16 AM</u> Stopped: <u>7/6/2021 8:41 AM</u> <input checked="" type="checkbox"/> Has Stopped Source Number: <u>S1031-Heat Recovery Steam Generator, SG-4901</u> Abatement Device: _____ Emission Point: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Description: Cogen Nox analyzer failed daily calibration on 7/4/21 and 7/5/21. The analyzer was recalibrated on 7/6/21 and passed																							
Ref: 1169 Event Started: <u>8/16/2021 7:14 AM</u> Stopped: <u>8/16/2021 8:51 AM</u> <input checked="" type="checkbox"/> Has Stopped Source Number: <u>S220-Hot Oil Furnace, F-4460</u> Abatement Device: _____ Emission Point: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Description: F4460 NOX analyzer failed daily validation on 8/15 through 8/16. The analyzer was recalibrated on 8/16 and passed.																							
Ref: 1170 Event Started: <u>7/6/2021 7:05 AM</u> Stopped: <u>7/6/2021 10:17 AM</u> <input checked="" type="checkbox"/> Has Stopped Source Number: _____ Abatement Device: _____ Emission Point: <u>P1059-FGS Stack ST-5601</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Description: FGS SO2 analyzer failed daily validation 7/5 @7:05 to 7:06 @7:05. The analyzer was recalibrated on 7/6 @10:17 and passed.																							
Ref: 1178 Event Started: <u>10/24/2021 7:20 AM</u> Stopped: <u>10/25/2021 1:48 PM</u> <input checked="" type="checkbox"/> Has Stopped Source Number: <u>S23-Gas Oil Hydrocracking, F-401</u> Abatement Device: _____ Emission Point: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>											
Event Description: NOX/O2/CO analyzer for F-401 was inoperative for greater than 24 hours. The CEM failed to calibrate on 10/23/21 at 07:20 hours and became inoperative 10/24/21 at 07:20 hours. The CEM was returned to service and operating normally.																							

BAAQMD Title V Permit 6 Month Monitoring Report

From 7/1/2021 to 12/31/2021

B2626 Valero Benicia Refinery Facility Address: 3400 East Second Street Benicia, CA 945101097 Contact: Taryn Wier	Mailing Address: 3400 East Second Street Benicia, CA 945101097 Title: Manager - Environmental Engineering Phone: (707) 745-7475
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Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:	CEM	GLM	Fuel Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/LTA	Lead	Steam	Flow	Wind Dir.	Wind Speed	pH	Temp.	VOC	Guage Press.
Ref: 1182 Event Started: 11/22/2021 4:50 AM Stopped: 11/30/2021 5:00 PM <input checked="" type="checkbox"/> Has Stopped Source Number: S18-South Flare, ST-2101 Abatement Device: Emission Point:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Event Description: South Flare Total Sulfur analyzer failed validation 11/22/21 and 11/23/21. Replacement calibration gas from the local supplier is being brought in from out of state. Ammended: Calibration gas arrived on 11/30/21 and a passing validation was achieved.																							
Ref: 1183 Event Started: 12/6/2021 6:30 AM Stopped: 12/6/2021 12:09 PM <input checked="" type="checkbox"/> Has Stopped Source Number: Abatement Device: A56-Tail Gas Cleanup Unit on SGU A/B Trains (Flexsorb Section) Emission Point:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Event Description: Flexsorb TRS analyzer failed daily validation on 12/5 and 12/6. The analyzer was recalibrated on 12/6 and passed.																							
Ref: 1185 Event Started: 12/24/2021 7:15 AM Stopped: 12/25/2021 7:15 AM <input checked="" type="checkbox"/> Has Stopped Source Number: S220-Hot Oil Furnace, F-4460 Abatement Device: Emission Point:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																		
Event Description: F-4460 CEMS did not validate on 12/24/2021																							

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

x Signature of Responsible Official	Joshua Tulino Print Name	Vice President and General Manager Title	1/27/22 Date
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BAAQMD Title V Permit
6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

A0901	Valero Benicia Asphalt Plant	
Facility Address: 3001 Park Road Benicia, CA 94510	Mailing Address: 3001 Park Road Benicia, CA 94510	
Contact: Taryn Wier	Title: Manager - Environmental Engineering	Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

No deviation for this time period.

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

x  _____
Signature of Responsible Official

Joshua Tulino _____
Print Name

Vice President and General Manager _____
Title

1/27/22 _____
Date

BAAQMD Title V Permit
6 Month Monitoring Report

From 7/1/2021 to 12/31/2021

A0901 Valero Benicia Asphalt Plant

Facility Address:

3001 Park Road
Benicia, CA 94510

Mailing Address:

3001 Park Road
Benicia, CA 94510

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:

No Inoperable Monitors for this time period.

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

x  _____ Joshua Tulino _____ Vice President and General Manager _____ 1/27/22 _____
Signature of Responsible Official Print Name Title Date

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B5574 Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 94510

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Event Startec 11/22/202 10:15 AM Stopped: 11/22/202 12:30 PM Ongoing Event

Source Number: S62-Tank, TK-1706 (NuStar effective 10/4/2006) B5574

Abatement Device:

Emission Point:

May have resulted in a violation of:

Permit:

AQMD: 8-5-322

Other:

1175 Event Description: During a tank seal inspection on Tk-1706, contract inspector identified a gap greater than regulation 8-5 criteria.

Probable Cause: Normal wear

Corrective actions or preventative steps taken: Tank Contractor was given work directions to repair the day of the incident discovery. Equipment maintenance; gaps were rechecked.

Episode ID #:

NOV:

BAAQMD Title V Permit 6 Month Deviation Summary Report

From 7/1/2021 to 12/31/2021

B5574 Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 94510

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

Title V deviations for the reporting period are summarized below:

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

x



Signature of Responsible Official

Joshua Tulino

Print Name

Vice President and General Manager

Title

1/27/22

Date

BAAQMD Title V Permit
6 Month Monitoring Report

From 7/1/2021 to 12/31/2021

B5574 Valero Benicia Refinery

Facility Address:

3400 East Second Street
Benicia, CA 94510

Mailing Address:

3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Wier

Title: Manager - Environmental Engineering

Phone: (707) 745-7475

Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:

No Inoperable Monitors for this time period.

Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

x 
Signature of Responsible Official

Joshua Tulino
Print Name

Vice President and General Manager
Title

1/27/22
Date