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

Sent via email

TV Tracking #1155 - B2626 (Semi-Annual)
TV Tracking #1156 - A0901 (Semi-Annual)
TV Tracking #1157 - B5574 (Semi-Annual)

July 22, 2025

1. ☐ RECEIVED IN ENFORCEMENT: 07/22/2025

Refinery, Asphalt Plant & B5574
Monitoring Report for Jan 2025 – June 2025

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 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 707-745-7729 if you have any questions or need further information.

Sincerely,

Carson Stacy
Associate Environmental Engineer

Document # 28114

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 1/1/2025 12:00 AM Stoppec 1/1/2025 12:00 AM ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | S21-Hydrogen Reformer Furnace, F-301; S22-Hydrogen Reformer Furnace, F-351; S220-Hot Oil Furnace, F-4460; S237-Boiler, SG-1032 | Permit: | 25342, Part 2d |
| Abatement Device: | | AQMD: | |
| Emission Point: | | Other: | |

1389 Event Description: The total reduced sulfur (TRS) concentration in refinery fuel gas exceeded the 51 ppmvd rolling four-quarter average limit in 4Q2024. The average concentration during this period was 88 ppm.

Probable Cause: FCCU SD in 1Q24 and 3Q24.

Corrective actions or preventative steps taken: FCCU SU.

Episode ID #: 200894 NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 1/1/2025 12:00 AM Stoppec 1/1/2025 12:00 AM ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | S40-Steam Generator, SG-2301 | Permit: | #25342, Part 2c |
| Abatement Device: | | AQMD: | |
| Emission Point: | | Other: | |

1390 Event Description: The total reduced sulfur (TRS) concentration in refinery fuel gas exceeded the 51 ppmvd calendar year average limit in CY2024. The average concentration during this period was 88 ppm.

Probable Cause: FCCU SD in 1Q24 and 3Q24.

Corrective actions or preventative steps taken: FCCU SU.

Episode ID #: 200893 NOV: 63898

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 12/13/2024 12:00 AM Stoppec 1/4/2025 12:00 AM ☐ Ongoing Event

| | | | May have resulted in a violation of: |
|---|---|---|---|
| Source Number: | S237-Boiler, SG-1032 | Permit: | Standard Condition F |
| Abatement Device: | | AQMD: | |
| Emission Point: | | Other: | 40 CFR 60.48b(f) |

1396 Event Description: On 12/13/2024 at 12:00 AM, the NOx analyzer on SG-1032 was not obtaining emission data for greater than 22 of 30 successive operating days due to CEMS analyzer upgrade mandated by BAAQMD. It reachieved emissions data acquisition for 22 of 30 days on 1/4/2025. This report is being submitted more than 10 days after the incident occurred.

Probable Cause: Analyzer was being replaced per BAAQMD mandate.

Corrective actions or preventative steps taken: New analyzer was brought online.

Episode ID #: NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 1/9/2025 12:00 AM Stoppec 1/31/2025 12:00 AM ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | S1031-Heat Recovery Steam Generator, SG-4901 | Permit: | Standard Condition F |
| Abatement Device: | | AQMD: | |
| Emission Point: | P60-Cogen Stack GT/SG-4901 | Other: | 40 CFR 60.48b(f) |

1397 Event Description: On 1/9/2025 at 12:00 AM, the NOx analyzer on SG-4901 was not obtaining emission data for greater than 22 of 30 successive operating days due to CEMS analyzer upgrade mandated by BAAQMD. This report is being submitted more than 10 days after the incident occurred.

Probable Cause: Analyzer was offline due to upgrade mandated by BAAQMD.

Corrective actions or preventative steps taken: New analyzer was brought online.

Episode ID #: NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 2/19/2025 12:00 AM Stoppec 2/20/2025 4:30 PM ☐ Ongoing Event

| | | | May have resulted in a violation of: |
|---|---|---|---|
| Source Number: | S34-Process Furnace, Gas Heater, F-2905 | Permit: | Condition 26250, Part 2 & Part 6 |
| Abatement Device: | | AQMD: | 9-10-502.1 |
| Emission Point: | | Other: | |

1398 Event Description: Source test report for S-34 (F-2905) was turned in on 02/20/2025, 62 days after the source test was performed. Regulation 9-10-502.1 requires source tests to be turned in within 60 days of the source test.

Probable Cause: Employee missed the due date.

Corrective actions or preventative steps taken: Source test report was submitted.

Episode ID #: NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 3/8/2025 9:00 AM Stoppec 3/8/2025 6:00 PM ☐ Ongoing Event

| | | | May have resulted in a violation of: |
|---|---|---|---|
| Source Number: | | Permit: | Condition #26960, Part 1 |
| Abatement Device: | A13-Vapor Recovery Compressor Flare Gas Recovery Header | AQMD: | |
| Emission Point: | | Other: | |

1400 Event Description: At 09:00 on 03/08/2025, the volume of recovered gas processed at flare gas recovery compressor C-2101A exceeded the 6,000,000 SCF 24-hr limit. Limit exceedance continued until 03/08/2025 at 18:00. The average flow recorded during this period was 6,038,800 SCF/24-hr.This is being filed as an excess only, as these limits are not currently in the Title V.

Probable Cause: Increased flare load related to SU activities led to an increased load on C-2101.

Corrective actions or preventative steps taken: Increased flare load was decreased.

Episode ID #: 201247 NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 10/17/2024 12:00 PM Stoppec 10/17/2024 12:00 PM ☐ Ongoing Event

| | | | May have resulted in a violation of: |
|---|---|---|---|
| Source Number: | S6-Coker Burner, R-902 | Permit: | 20820, Part 63 |
| Abatement Device: | | AQMD: | 6-1-310 |
| Emission Point: | P1059-FGS Stack ST-5601 | Other: | |

1401 Event Description: On March 13, 2025, Valero Benicia Refinery received an NOV (63887) from the BAAD. This NOV was issued for PM emissions of 43 lbs/hr and 186.7 tons/yr at the Coker on 10/17/2024, per source test #ST24503. Valero has submitted a 10-day response letter.

Probable Cause: FCC outage.

Corrective actions or preventative steps taken: FCC unit brought back up.

Episode ID #: NOV: 63887

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 3/18/2025 7:00 AM Stoppec 3/18/2025 11:00 AM ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | | Permit: | Condition #26960, Part 1 |
| Abatement Device: | A13-Vapor Recovery Compressor Flare Gas Recovery Header | AQMD: | |
| Emission Point: | | Other: | |

1402 Event Description: At 07:00 on 03/18/2025, the volume of recovered gas processed at flare gas recovery compressor C-2101A exceeded the 6,000,000 SCF 24-hr limit. Limit exceedance continued until 03/18/2025 at 11:00. The average flow recorded during this period was 6,085,910 SCF/24-hr.This is being filed as an excess only, as these limits are not currently in the Title V.

Probable Cause: Increased flare load on C-2101 led to a flow excess.

Corrective actions or preventative steps taken: Flare check sheets were ran and then flare load was minimized.

Episode ID #: 201421 NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 4/1/2025 12:00 AM Stoppec 4/1/2025 12:00 AM ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | S21-Hydrogen Reformer Furnace, F-301; S22-Hydrogen Reformer Furnace, F-351; S220-Hot Oil Furnace, F-4460; S237-Boiler, SG-1032 | Permit: | 25342, Part 2d |
| Abatement Device: | | AQMD: | |
| Emission Point: | | Other: | |

1404 Event Description: The total reduced sulfur (TRS) concentration in refinery fuel gas exceeded the 51 ppmvd rolling four-quarter average limit in 1Q2025. The average concentration during this period was 72 ppm.

Probable Cause: FCCU SD in 1Q24 and 3Q24.

Corrective actions or preventative steps taken: FCCU was SU.

Episode ID #: 201587 NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 4/4/2025 10:24 AM Stoppec 4/4/2025 11:25 AM ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | S90-Tank, TK-1762 | Permit: | |
| Abatement Device: | | AQMD: | 8-5-320.3.2 |
| Emission Point: | | Other: | |

1405 Event Description: During a visual inspection by contract inspector, a visible gap was identified on the internal roof tank opening cover.

Probable Cause:

Corrective actions or preventative steps taken: Lid was repositioned to close the gap.

Episode ID #:

NOV: 63893

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 5/5/2025 10:30 AM Stoppec 5/5/2025 10:45 AM ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | S18-South Flare, ST-2101 | Permit: | |
| Abatement Device: | | AQMD: | |
| Emission Point: | P2-South Flare Emission Point, P-2 | Other: | 40 CFR 63.670€ |

1407 Event Description: The South Flare (S-18) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 05/05/2025 during the 10:30 15-minute period. The NHV during this period was 263 BTU/scf.

This is being filed as an excess only. These limits aren't currently in the Title V.

Probable Cause: Imbalance of steam and vent gas flow.

Corrective actions or preventative steps taken: Use of advanced controls to supplement with natural gas and the minimum amount of steam required.

Episode ID #: 201696 NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 5/6/2025 Stoppec 5/6/2025 ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | S25-Process Furnace, Cat Feed Preheat, F-701 | Permit: | |
| Abatement Device: | | AQMD: | 6-1-301 |
| Emission Point: | P36-F-701 Stack, P-36 | Other: | |

1408 Event Description: On May 6, 2025, Valero Benicia Refinery received an NOV (65303) from the BAAD. This NOV was issued for visible emissions > Ringlemann 1 at F-701 emission point on 5/5/2025 at 09:22.

Probable Cause: Unit fire.

Corrective actions or preventative steps taken: Unit fire was stopped.

Episode ID #:

NOV: 65303

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 5/6/2025 Stoppec 5/6/2025 ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | | Permit: | |
| Abatement Device: | | AQMD: | 6-1-301 |
| Emission Point: | | Other: | |

1409 Event Description: On May 6, 2025, Valero Benicia Refinery received an NOV (65304) from the BAAD. This NOV was issued for visible emissions > Ringlemann 1 from the unit fire on 5/5/2025 at 09:19.

Probable Cause: Unit fire.

Corrective actions or preventative steps taken: Unit fire was stopped.

Episode ID #:

NOV: 65304

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 5/6/2025 Stoppec 5/6/2025 ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | | Permit: | |
| Abatement Device: | | AQMD: | Regulation 1, Section 301, H&S Code 41700 |
| Emission Point: | | Other: | |

1410 Event Description: On May 6, 2025, Valero Benicia Refinery received an NOV (63895) from the BAAD. This NOV was issued for public nuisance due to unit fire on 5/5/2025 around 08:45.

Probable Cause: Unit fire.

Corrective actions or preventative steps taken: Unit fire was stopped.

Episode ID #:

NOV: 63895

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 5/6/2025 6:15 PM Stoppec 5/6/2025 7:30 PM ☐ Ongoing Event

| | | | May have resulted in a violation of: |
|---|---|---|---|
| Source Number: | S18-South Flare, ST-2101 | Permit: | |
| Abatement Device: | | AQMD: | |
| Emission Point: | P2-South Flare Emission Point, P-2 | Other: | 40 CFR 63.670€ |

1412 Event Description: The South Flare (S-18) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 05/06/2025 during the 18:15 and 19:30 15-minute periods. The NHVs during this period were 241 BTU/scf and 249 BTU/scf, respectively.

This is being filed as an excess only. These limits aren't currently in the Title V.

Probable Cause: Imbalance of steam and vent gas flow.

Corrective actions or preventative steps taken: Use of advanced controls to supplement with natural gas and the minimum amount of steam required.

Episode ID #: 201697;201697 NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 5/9/2025 8:45 PM Stoppec 5/9/2025 9:00 PM ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | S18-South Flare, ST-2101 | Permit: | |
| Abatement Device: | | AQMD: | |
| Emission Point: | P2-South Flare Emission Point, P-2 | Other: | 40 CFR 63.670(e) |

1413 Event Description: The South Flare (S-18) NHV of the combustion zone measured below the minimum limit of 270 BTU/scf on 05/09/2025 during the 20:45 15-minute period. The NHV during this period was 241 BTU/SCF.

This is being filed as an excess only. These limits aren't currently in the Title V.

Probable Cause: Imbalance of steam and flare flow

Corrective actions or preventative steps taken: Use of advanced controls to supplement with natural gas and the minimum amount of steam required.

Episode ID #: 201709 NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 5/20/2025 3:18 PM Stoppec 5/23/2025 8:53 AM ☐ Ongoing Event

| | | | May have resulted in a violation of: |
|---|---|---|---|
| Source Number: | unassigned-Tank, Refrigerated Butane Tank, TK-1726 | Permit: | |
| Abatement Device: | | AQMD: | 8-18-304.2 |
| Emission Point: | | Other: | |

1416 Event Description: Amendment 5/30/25: Regulator on PV Vent (SV-1734B) on TK-1726 exceeded 100ppm emission standard during BAAD inspection on 5/20/25. The connector was not able to be repaired within 24 hours. The connector was repaired and <100 ppm total organic compounds on 5/23/25

PV Vent (SV-1734B) on TK1726 exceeded 500ppm emission standard during BAAD inspection on 5/20/25.
Valve repair efforts are complete as of 5/23/25

Probable Cause: Regulator Not Gas Tight

Corrective actions or preventative steps taken: Contacted Valero Maintenance to schedule a crew to repair. Regulator repaired on 5/23/25, remonitored and the regulator is now gas tight and leak resolved. LDAR Tag - #178148 (SV-1734B)

Episode ID #: NOV: 63896

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin Title: Manager - Environmental Engineering Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:*

Event Starte 5/23/2025 1:47 PM Stoppec ☐ Ongoing Event

May have resulted in a violation of:

| | | | |
|---|---|---|---|
| Source Number: | S5-FCCU Regenerator, R-702; S6-Coker Burner, R-902; S1059-CO Furnace F-105; S1060-CO Furnace F-106 | Permit: | Condition 20820, Part 63 & 68b |
| Abatement Device: | A1047-Flue Gas Scrubber (Belco & Cansolv) | AQMD: | Reg. 6-1-311 |
| Emission Point: | | Other: | |

1417 Event Description: Results from an annual compliance test at the Flue Gas Scrubber conducted on 04/17/2025 indicated that the filterable PM limit of 40 lb/hr was exceeded. The average result indicated by the compliance test was 44.9 lb/hr filterable PM.The results were provided to the Valero Benicia Refinery and BAAD by the contractor performing the test on 05/23/2025 at 13:47.

Probable Cause: The cause of the high PM content in the FGS stack is still unknown.

Corrective actions or preventative steps taken:

Episode ID #: 201721 NOV:

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B2626** **Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin | Title: Manager - Environmental Engineering | Phone: (707) 745-7475

*Title V deviations for the reporting period are summarized below:* ***18 deviations for this 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 Lauren K. Bird | Lauren Bird | Vice President and General Manager | 21 July 2025 |
|---|---|---|---|
| Signature of Responsible Official | Print Name | Title | Date |

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**A0901 Valero Benicia Asphalt Plant**

**Facility Address:**
3001 Park Road
Benicia, CA 94510

**Mailing Address:**
3001 Park Road
Benicia, CA 94510

Contact: Taryn Goodwin | 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 | Lauren Bird<br>Print Name | Vice President and General Manager<br>Title | 21 July 2025<br>Date |
|---|---|---|---|

# BAAQMD Title V Permit
# 6 Month Deviation Summary Report

*From 1/1/2025 to 6/30/2025*

**B5574** **Nustar Logistics**

**Facility Address:**
3400 East Second Street
Benicia, CA 94510

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin | 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 Lauren K. Bird | Lauren Bird | Vice President and General Manager | 21 July 2025 |
|---|---|---|---|
| Signature of Responsible Official | Print Name | Title | Date |

# BAAQMD Title V Permit
# 6 Month Monitoring Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin 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:***

| | 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: 1388 Event Started: 1/1/2025 8:01 AM Stopped: 1/27/2025 4:00 PM ☑ Has Stopped | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

Source Number: S1031-Heat Recovery Steam Generator, SG-4901
Abatement Device:
Emission Point:

Event Description: Amendment 02/21/2025: SG-4901 NOx, CO, and O2 monitor became inoperative >24 hrs on 1/1/2025 at 8:01 AM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD. As directed by Air District staff, monitor is inoperative until completion of RATA. This monitor was placed back into service after a passing RATA, completed on 01/27/2025 at 16:00. RATA results provided to BAAQMD personnel on 02/21/2025.

SG-4901 NOx, CO, and O2 monitor became inoperative >24 hrs on 1/1/2025 at 8:01 AM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ref: 1391 Event Started: 1/2/2025 7:14 AM Stopped: 1/2/2025 10:55 AM ☑ Has Stopped | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

Source Number: S1003-Hydrocracker
Abatement Device:
Emission Point:

Event Description: The F401 analyzer became inoperative >24hrs on 1/2/25 at 07:14 AM. Analyzer was re-calibrated and passed validation on 1/2/25 at 10:55 AM.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ref: 1392 Event Started: 1/2/2025 7:01 AM Stopped: 1/2/2025 12:50 PM ☑ Has Stopped | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

Source Number:
Abatement Device:
Emission Point: P1-Main Stack Emission Point, P-1

Event Description: The ST101 analyzer became inoperative >24hrs on 1/2/25 at 07:01 AM. Analyzer was re-calibrated and passed validation on 1/2/25 at 12:50 PM.

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Contact: Taryn Goodwin 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:***

| | 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: 1393 Event Started: 1/7/2025 12:26 PM Stopped: 3/26/2025 11:00 PM ☑ Has Stopped | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

Source Number: S20-Process Furnace, Naphtha Hydrofining, F-104; S30-Process Furnace, PFR Preheat, F-2901; S31-Process Furnace, PFR Preheat, F-2902; S32-Process Furnace, PFR Preheat, F-2903; S33-Process Furnace, PFR Preheat, F-2904; S34-Process Furnace, Gas Heater, F-2905; S35-Process Furnace, Gas Heater, F-2906; S21-Hydrogen Reformer Furnace, F-301; S22-Hydrogen Reformer Furnace, F-351; S23-Gas Oil Hydrocracking, F-401; S220-Hot Oil Furnace, F-4460; S24-Process Furnace, Cat Feed Hydrofining, F-601; S25-Process Furnace, Cat Feed Preheat, F-701; S26-Process Furnace, HCN Hydrofining, F-801; S173-Coker Steam Superheat Furnace, F-902; S1030-Combustion Turbine Generator, GT-4901; S237-Boiler, SG-1032; S40-Steam Generator, SG-2301; S41-Steam Generator, SG-2302; S1031-Heat Recovery Steam Generator, SG-4901; S1059-CO Furnace F-105; S1060-CO Furnace F-106

Abatement Device:

Emission Point:

Event Description: Amendment 04/02/25: LPFG TRS and H2S monitor became inoperative >24 hrs on 1/7/2025 at 12:26 PM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAD. This monitor was placed back into service after a passing RATA, completed on 03/26/2025 at 23:00. RATA results provided to BAAD personnel on 03/30/2025.

01/21/25 amended to include source numbers S41, S40, S7, S20, S21, S22, S23, S24, S25, S26, S30, S31, S32, S33, S34, S35, S173, S220, S237, S1030, S1031, S1059, S1060.

LPFG TRS and H2S monitor became inoperative >24 hrs on 1/7/2025 at 12:26 PM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ref: 1394 Event Started: 1/19/2025 7:20 AM Stopped: 1/20/2025 10:48 AM ☑ Has Stopped | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

Source Number: S22-Hydrogen Reformer Furnace, F-351

Abatement Device:

Emission Point:

Event Description: F-351W High NOx failed validation on 1/18/2025 at 7:20 AM, the analyzer became inoperative for >24 hours on 1/19/2025 at 7:20 AM. The analyzer was re-calibrated and passed on 1/20/2025 at 10:48 AM.

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# 6 Month Monitoring Report

*From 1/1/2025 to 6/30/2025*

**B2626 Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin 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:***

| | 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: 1395 Event Started: 1/23/2025 12:48 PM Stopped: 3/28/2025 7:00 PM ☑ Has Stopped | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

Source Number: S1030-Combustion Turbine Generator, GT-4901; S1031-Heat Recovery Steam Generator, SG-4901
Abatement Device:
Emission Point:

Event Description: Amendment 04/02/25: SG-4901 H2S & TRS monitors became inoperative >24 hrs on 1/23/25 at 12:48 PM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAD. This monitor was placed back into service after a passing RATA, completed on 03/28/2025 at 19:00. RATA results provided to BAAD personnel on 03/30/2025.

1/23/2025: SG-4901 H2S & TRS monitors became inoperative >24 hrs on 1/23/25 at 12:48 PM. Monitor was taken offline to begin necessary maintenance to re-range analyzer as mandated by BAAQMD.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ref: 1399 Event Started: 3/10/2025 7:00 AM Stopped: 3/10/2025 11:59 AM ☑ Has Stopped | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

Source Number:
Abatement Device:
Emission Point: P1-Main Stack Emission Point, P-1

Event Description: ST-101 High SO2 failed validation on 03/09/2025 at 7:00 AM, the analyzer became inoperative for >24 hours on 03/10/2025 at 07:00 AM. The analyzer was re-calibrated and passed on 03/10/2025 at 11:59 AM.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ref: 1406 Event Started: 5/2/2025 6:03 PM Stopped: 5/6/2025 3:08 PM ☑ Has Stopped | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

Source Number:
Abatement Device:
Emission Point: P1059-FGS Stack ST-5601

Event Description: Amendment 06/26/25: FGS O2 analyzer became inoperative for >24 hours on 05/02/2025 at 06:03 PM. FGS O2 analyzer passed calibration at 03:08 PM on 05/06/25 after parts were replaced on the analyzer.

Amendment 05/08/25: FGS O2 analyzer became inoperative for >24 hours on 05/02/2025 at 06:03 PM. FGS O2 analyzer passed calibration at 05:30 on 05/08/25 after parts were replaced on the analyzer.

FGS O2 analyzer became inoperative for >24 hours on 05/02/2025 at 06:03 PM. Parts are on order to replace O2 Wet components.

# BAAQMD Title V Permit
# 6 Month Monitoring Report

*From 1/1/2025 to 6/30/2025*

**B2626** **Valero Benicia Refinery**

**Facility Address:**
3400 East Second Street
Benicia, CA 945101097

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin  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:***

| 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: 1415 Event Started: 5/18/2025 5:30 AM Stopped: 5/20/2025 2:33 PM ☑ Has Stopped

Source Number:

Abatement Device:

Emission Point: P1059-FGS Stack ST-5601

Event Description: Amendment 05/20/25: FGS O2 analyzer became inoperative for >24 hours on 05/18/2025 at 5:30 AM. FGS O2 analyzer passed calibration at 14:33 on 05/20/25 after parts were replaced on the analyzer.

FGS O2 analyzer became inoperative for >24 hours on 05/18/2025 at 5:30 AM. Parts are on order to replace O2 Wet components.

***Certification Statement*** ***9 inoperable monitors for this time period.***

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 | Lauren Bird Print Name | Vice President and General Manager Title | 21 July 2025 Date |
|---|---|---|---|

BAAQMD Title V Permit
6 Month Monitoring Report

*From 1/1/2025 to 6/30/2025*

**A0901 Valero Benicia Asphalt Plant**

**Facility Address:**
3001 Park Road
Benicia, CA 94510

**Mailing Address:**
3001 Park Road
Benicia, CA 94510

Contact: Taryn Goodwin | 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 Lauren K. Bird | Lauren Bird | Vice President and General Manager | 21 July 2025 |
|---|---|---|---|
| Signature of Responsible Official | Print Name | Title | Date |

# BAAQMD Title V Permit
# 6 Month Monitoring Report

*From 1/1/2025 to 6/30/2025*

**B5574** **Nustar Logistics**

**Facility Address:**
3400 East Second Street
Benicia, CA 94510

**Mailing Address:**
3400 East Second Street
Benicia, CA 945101097

Contact: Taryn Goodwin | 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 Lauren K. Bird | Lauren Bird | Vice President and General Manager | 21 July 2025 |
|---|---|---|---|
| Signature of Responsible Official | Print Name | Title | Date |