



Martinez Refining Company

Fence Line Monitoring System

Quarterly Performance Report — Q1 2026

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June 2026

Executive Summary

During Quarter 1 (January through March 2026), the Martinez Refining Company (MRC) fence line monitoring system operated in compliance with Bay Area Air Quality Management District (BAAQMD) Regulation 12, Rule 15. This report summarizes system performance, concentration observations, data quality assurance and quality control (QA/QC) outcomes, on-stream efficiency (OSE) metrics, and corrective actions undertaken during the reporting period.

Concentration Observations: All monitored compounds remained well below applicable health-based thresholds, including the California Office of Environmental Health Hazard Assessment (OEHHA) acute one-hour Reference Exposure Levels (RELs), throughout the reporting period. These thresholds were not exceeded during Q1 2026.

Quality Assurance / Quality Control: All QA/QC procedures were completed and passed in accordance with the approved Quality Assurance Project Plan (QAPP). Monthly and quarterly bump tests and sealed-cell calibrations met all applicable acceptance criteria.

On-Stream Efficiency (OSE): The majority of monitoring systems achieved on-stream efficiency above the 90% regulatory threshold. The TDL instruments at Paths 3 and 4 fell below the 90% target due to repeated unscheduled downtime caused by recurring alignment issues and were the subject of corrective action during the quarter.

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Concentration Observations

Observed concentrations for all monitored compounds remained well below applicable health-based thresholds throughout the quarter. The health-based thresholds referenced in this report are the OEHHA acute one-hour RELs, which include 27 $\mu\text{g}/\text{m}^3$ (~8 ppb) for benzene and 42 $\mu\text{g}/\text{m}^3$ (~30 ppb) for hydrogen sulfide. For compounds where no OEHHA acute REL has been established, such as for ethylbenzene, chronic RELs were used as reference benchmarks.

Concentrations are evaluated on a one-hour rolling-average basis. At no point during the January through March 2026 reporting period did any monitored species register a one-hour rolling-average concentration at or above its applicable OEHHA acute one-hour REL or other health-based limit. These results are consistent with typical historical observations recorded since the inception of the MRC fence line monitoring program under BAAQMD Regulation 12, Rule 15.

QA/QC Activities

Monthly and quarterly bump tests and sealed-cell calibrations were performed for all instruments in January, February, and March 2026. All UV-DOAS, FTIR, OGD, and TDL calibration results were within acceptable limits per the QAPP for each month. All QA/QC activities were completed in accordance with the Quality Assurance Project Plan (QAPP). Results are summarized in the table below.

Table 1: Summary of QA/QC Activities for each Instrument for Q1 2026

Instrument	Month	Date	Pass/Fail
FTIR C	January	1/6/2026	Pass
FTIR C	February	2/11/2026	Pass
FTIR C	March	3/12/2026	Pass
FTIR D	January	1/6/2026	Pass
FTIR D	February	2/11/2026	Pass
FTIR D	March	3/11/2026	Pass
FTIR F	January	1/6/2026	Pass
FTIR F	February	2/11/2026	Pass
FTIR F	March	3/11/2026	Pass
FTIR G	January	1/6/2026	Pass
FTIR G	February	2/11/2026	Pass

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Instrument	Month	Date	Pass/Fail
FTIR G	March	3/11/2026	Pass
OGD A	March	3/11/2026	Pass
OGD B	March	3/11/2026	Pass
TDL 1	January	1/5/2026	Pass
TDL 1	February	2/2/2026	Pass
TDL 1	March	3/2/2026	Pass
TDL 2	January	1/5/2026	Pass
TDL 2	February	2/2/2026	Pass
TDL 2	March	3/2/2026	Pass
TDL 3	January	1/5/2026	Pass
TDL 3	February	2/2/2026	Pass
TDL 3	March	3/2/2026	Pass
TDL 4	January	1/5/2026	Pass
TDL 4	February	2/2/2026	Pass
TDL 4	March	3/10/2026	Pass
UV 1	January	1/7/2026	Pass
UV 1	February	2/3/2026	Pass
UV 1	March	3/3/2026	Pass
UV 2	January	1/7/2026	Pass
UV 2	February	2/2/2026	Pass
UV 2	March	3/3/2026	Pass
UV 3	January	1/7/2026	Pass
UV 3	February	2/2/2026	Pass
UV 3	March	3/3/2026	Pass
UV 4	January	1/7/2026	Pass
UV 4	February	2/3/2026	Pass
UV 4	March	3/5/2026	Pass

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On-Stream Efficiency and Instrument Downtime

All instruments met the 90% on-stream efficiency requirement during the quarter with the exception of the TDL instruments at Paths 3 and 4. These two systems experienced significant unscheduled downtime due to repeated realignment requirements, resulting in on-stream efficiencies of 65.07% and 53.11% respectively.

Corrective actions were performed during the quarter to address the TDL Path 3 and Path 4 downtime, including:

- Multiple field realignment visits to restore optical alignment on the affected paths;
- A repair of TDL Path 4 completed on March 10, 2026; and
- Ongoing evaluation of TDL Path 3 alignment stability, with additional corrective measures to be documented in subsequent reports as warranted.

All other instruments met the on-stream efficiency requirement.

Conclusion

Overall, the MRC fence line monitoring system performed satisfactorily during Q1 2026. All observed concentrations remained well below applicable OEHHA acute one-hour RELs and other health-based thresholds, and all QA/QC protocols were met. The TDL performance issues at Paths 3 and 4 have been identified and are being actively addressed through corrective maintenance, including the March 10 repair of TDL Path 4. Continued monitoring of TDL system stability and the effectiveness of the corrective actions will be reported in the Q2 2026 quarterly submission.