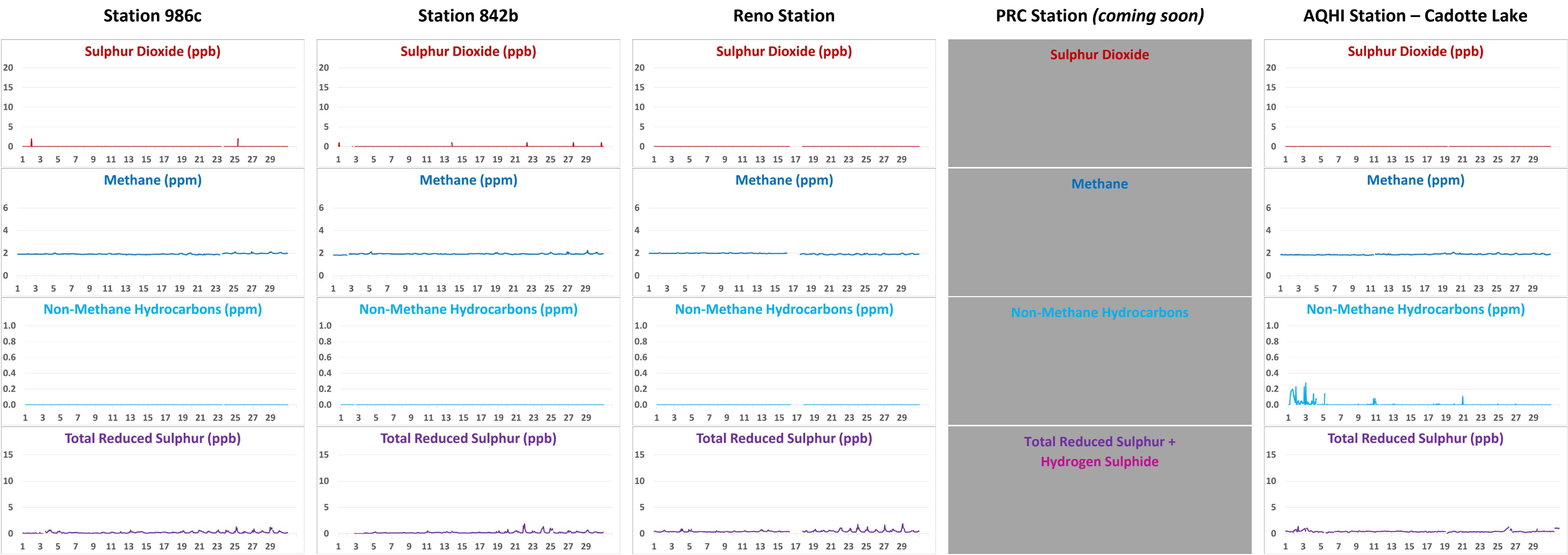


June 2020: Continuous Monitoring Program



Field Operations Summary *(detailed field operations notes can be found in the monthly technical reports on the PRAMP website)*

986c, 842b, and Reno Station:

- THC/CH4/NMHC: Baseline drift was noted after the monthly calibrations. The calibration met the AMD requirements and the data are considered valid. In order to eliminate the calibration systems that may potentially cause the drift, actions were taken, including 1) calibrators were verified and recalibrated, 2) calibration gases were cross-checked, and 3) calibration gas cylinders that assign for the PRAMP stations usage will be matched to have a similar apparent concentration.

986c Station:

- RH/BP/AT: Due to a power supply failure, no data were recorded between June 7 hour 8 and June 9 hour 14. A total of fifty-eight hours of data was invalidated due to this event.

842b Station:

- SO2: The analyzer malfunctioned after a brief power outage on June 1 hour 4. The analyzer was reset followed by a successful zero-span check on June 2 hour 13. Thirty-three hours of data were invalidated due to this event.
- TRS: The analyzer failed the as-found response check portion of the monthly calibration on June 2. The reason was due to delayed stabilization of the new converter, which was installed on May 19. Data were invalidated back to the point the post-repair calibration which was completed on May 20. Thirty-seven hours of data were invalidated in June due to this event.

Reno Station:

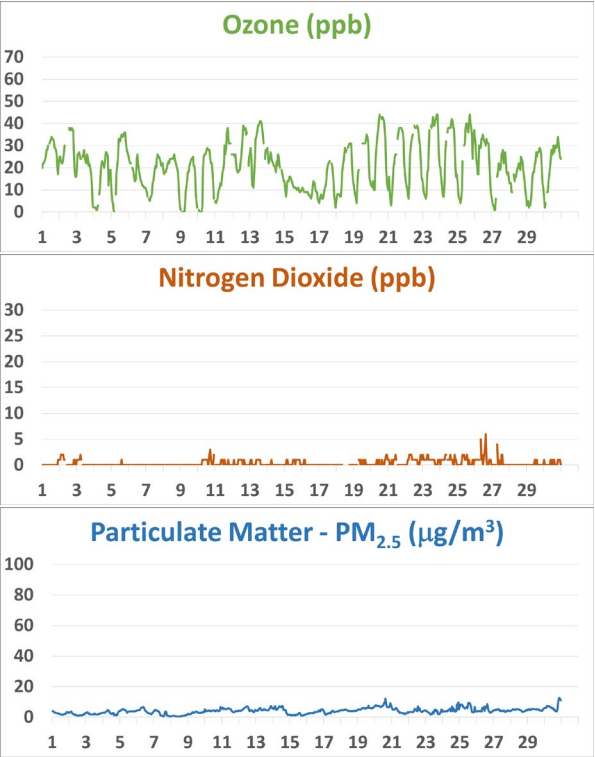
- AQM Trailer: The AQM station was replaced on June 16 - 17. Twenty-nine to thirty-one hours of downtime were recorded across the monitoring parameters due to this event.

AQHI – Cadotte Lake Station:

- TRS: The analyzer failed the daily zero-span check on June 2 due to a power interruption issue. A repeat successful zero-span check was initiated on June 2 hour 9. One hour of downtime was recorded as a result. The analyzer spanned low on June 13, and it failed the repeat span check on June 14 hour 6 and 7. A successful monthly calibration was completed on June 18. Because the analyzer passed the calibration requirements, data collected between June 14 and June 18 were considered valid. As neither obvious issues nor adequate data for the drift were available to determine the cause, it was considered an one-off event. No further investigation will be taken. Two hours of downtime were recorded due to additional zero-span check. The analyzer failed on June 27 hour 2 due to the memory crash. The analyzer was reset remotely followed by a successfully zero-span check on June 7. Five hours of downtime were recorded due to this event.
- O3: The analyzer failed the daily zero-span check on June 2 due to a power interruption issue. A repeat zero-span check was initiated on June 2 hour 9, but the check result did not meet the calibration requirements. Another zero-span check was initiated on June 2 hour 11 and 13. The check results met the calibration requirements. Three hours of downtime were recorded due to additional quality checks.

VOC Canister Sampling Program:

- No canister events were recorded this month.



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