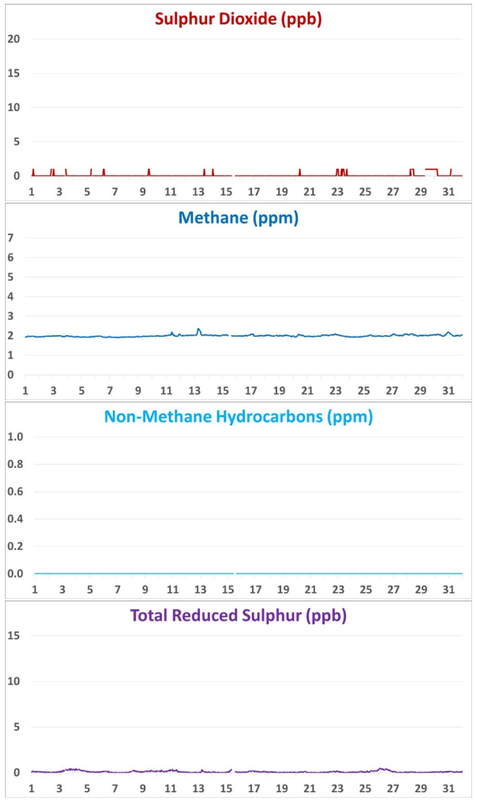
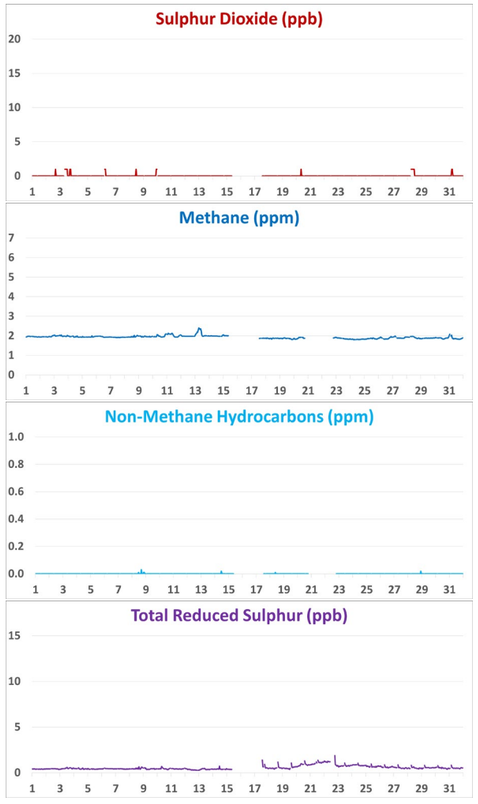
December 2020: Continuous Monitoring Program

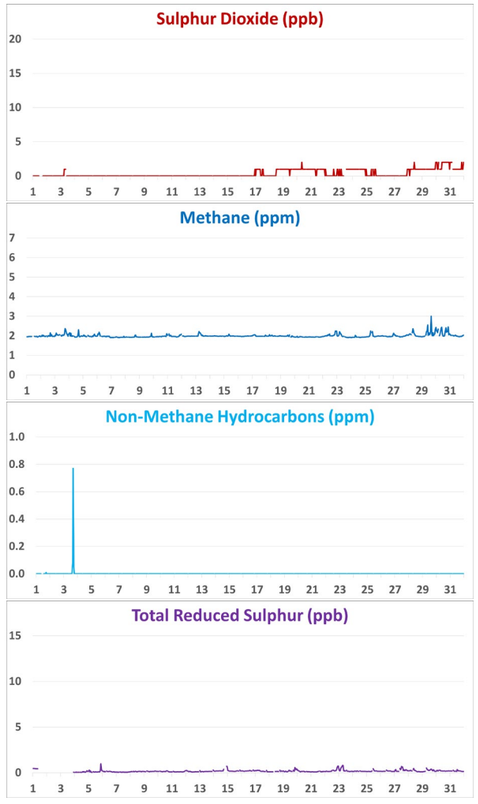
Station 986c



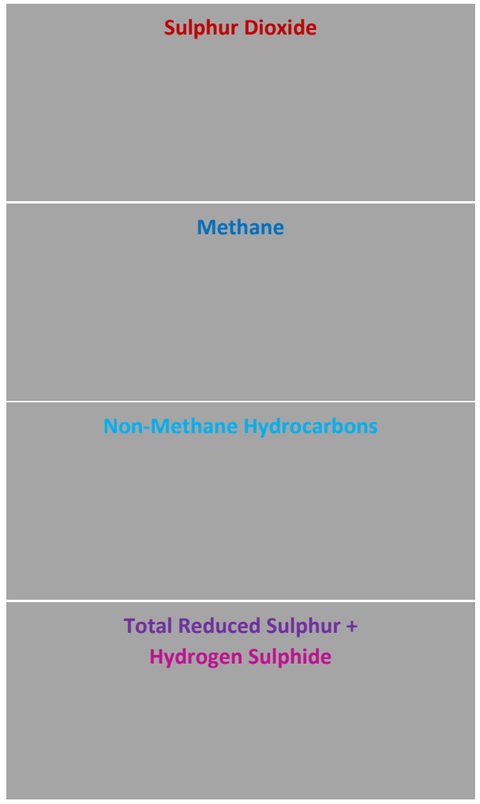
Station 842b



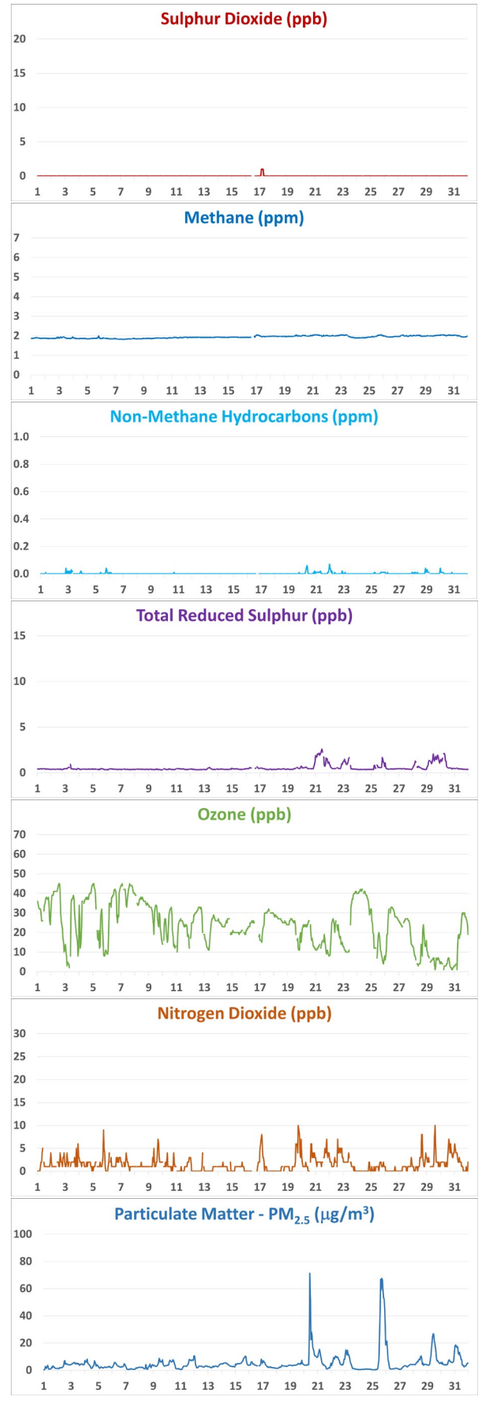
Reno Station



PRC Station *(coming soon)*



AQHI Station – Cadotte Lake



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

986c Station

- **All parameters:** Hourly data collected on December 12 hour 8 is missing due to a data polling error. One hour of downtime was recorded as a result.

842b Station

- All parameters met the 90% operational uptime requirement, except THC/CH4/NMHC (87.5%). **AEP reference #: 374751**.
- The contractor-supplied AQM trailer and all monitoring equipment were replaced with the PRAMP-owned trailer on December 15. All analyzers and sensors were offline 28 to 45 hours during the transition.
- **TRS:** The analyzer spanned outside the acceptable limits on December 20 due to permeation tube issues. Eight hours of downtime were recorded due to additional quality checks and maintenance.
- **THC/CH4/NMHC:** Sporadic injection issues started on December 20 hour 19. Forty-eight hours of downtime were recorded due to the analyzer failure and additional quality checks and maintenance.

Reno Station

- **TRS:** The analyzer failed the low point calibration check on December 1. Based on the change in response between calibration attempts, it was presumed that the scrubber beads were reacting adversely to the very dry air which was produced by the zero-air generator. Forty-eight hour of data were discarded due to additional checks and maintenance.

AQHI – Cadotte Lake Station

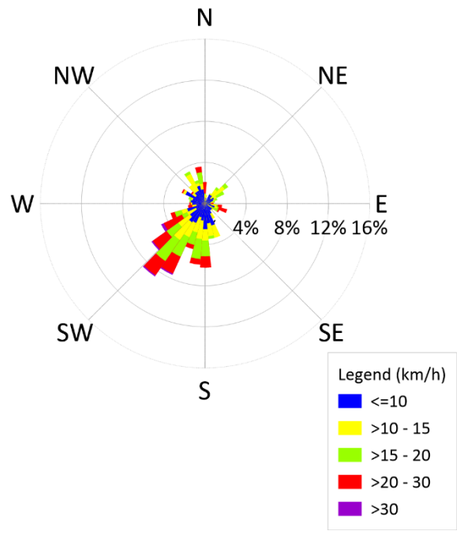
- **Ozone:** The channel was put offline while the glass manifold was cleaned on December 16 hour 15. One hour of downtime was recorded due to this event.
- **WS/WD:** Both WS and WD data appeared atypical, starting December 27 hour 19. Upon arrival on December 30, it was found that blade was unbalanced due to ice causing reduced sensitivity of the sensors. The blade was de-iced. The wind speed response was tested afterwards. The test results showed to be accurate and stable. Seventy-two hours of data collected between December 27 hour 19 and December 30 hour 19 were discarded due to this event.

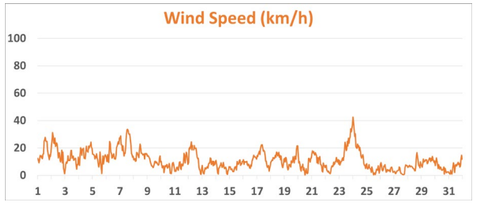
VOCs Canister Sampling program

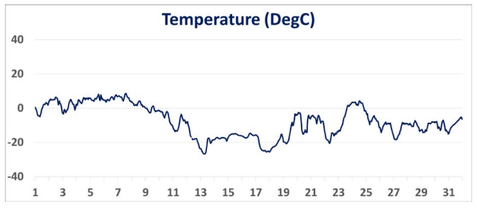
- One NMHC-triggered event was recorded at the Reno station on December 3 at 15:55, at concentration of 0.91ppm.

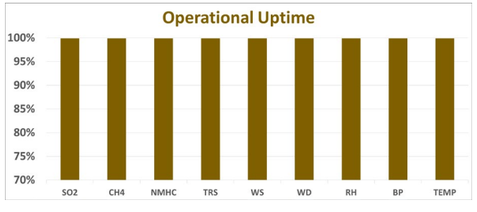
December 2020: Continuous Monitoring Program

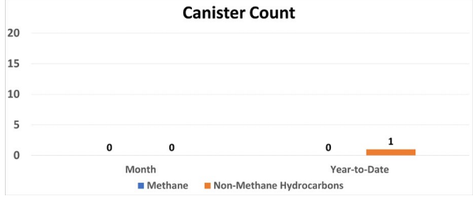
Station 986c



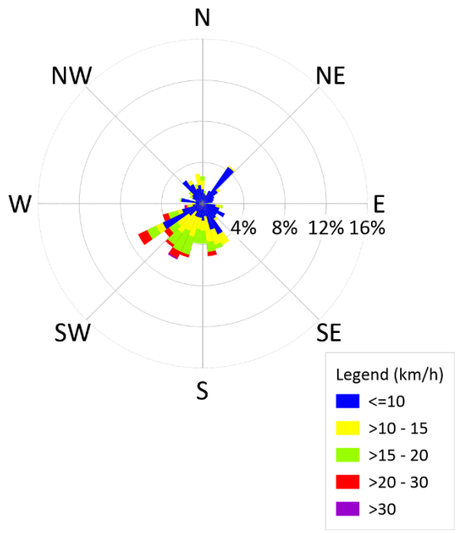


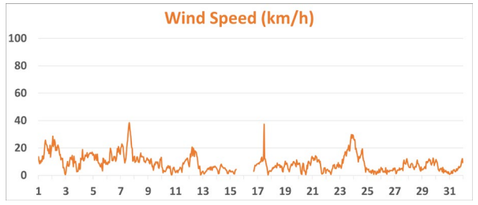


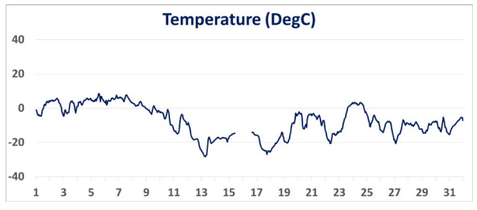


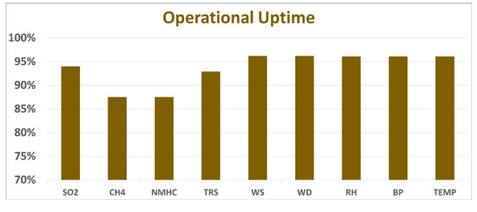


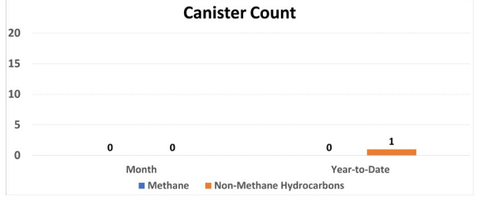
Station 842b



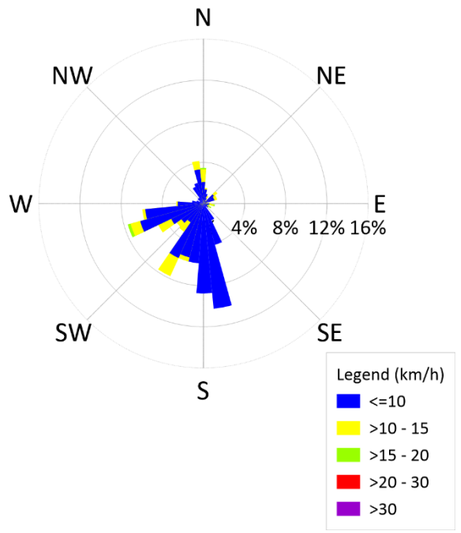


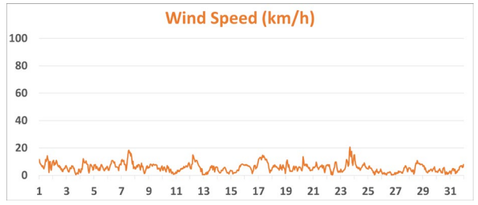


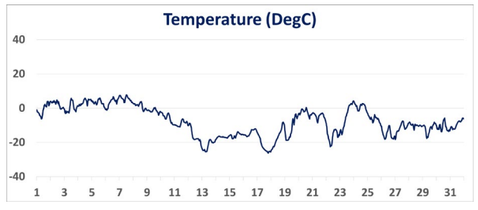


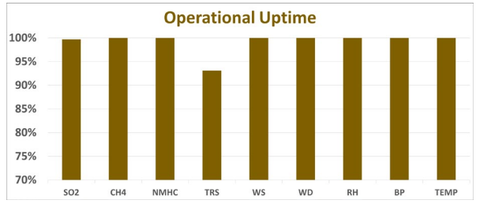


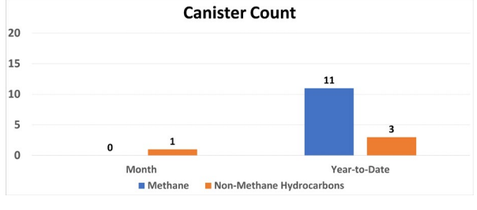
Reno Station











PRC Station *(coming soon)*

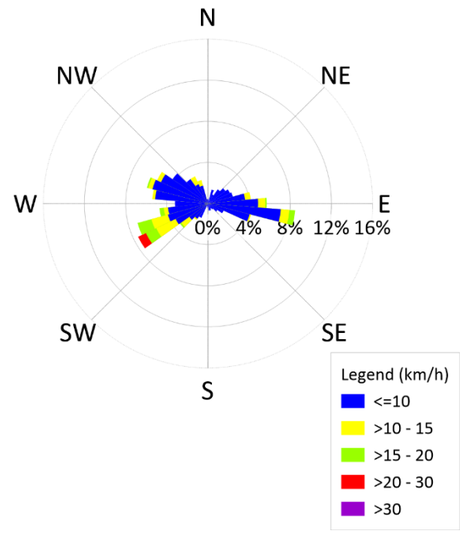
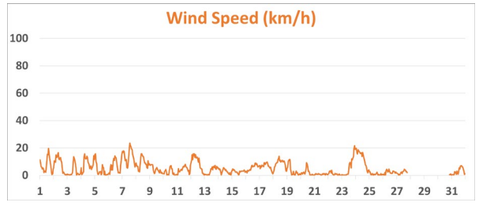
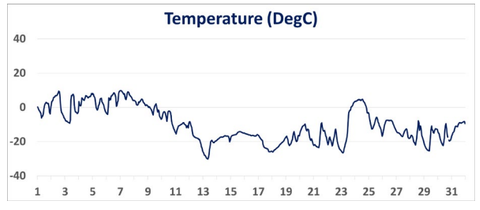
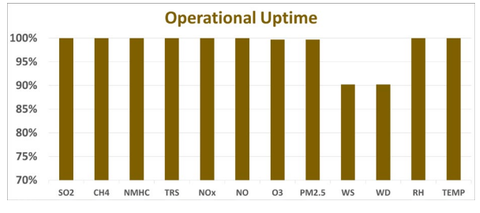
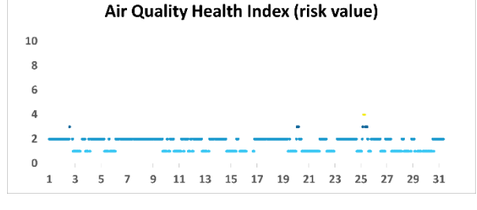
Wind Rose Diagram

Wind Speed

Temperature

Operational Time

Targets, Guidelines, and Objectives

Sulphur Dioxide 1h AAAQO = 172 ppb
Ozone 1h AAAQO = 76 ppb
Particulate Matter AAAQG = 80 µg/m^3
Nitrogen Dioxide AAAQO = 159 ppb
Operational Uptime Requirement = 90%
AQHI Risk Value = 1-3 Low, 4-6 Moderate, 7-9 High, 10+ Very High

AQHI Station – Cadotte Lake