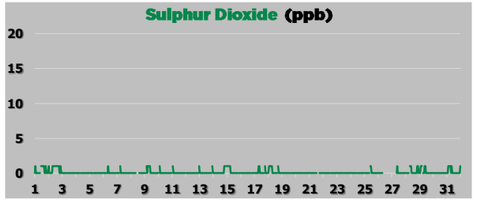
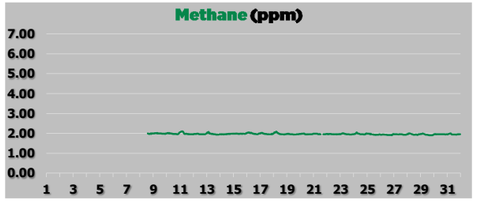
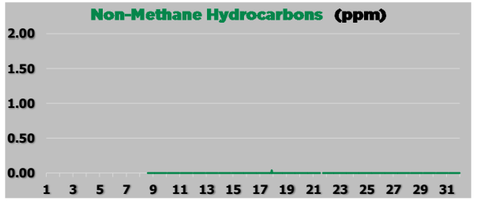
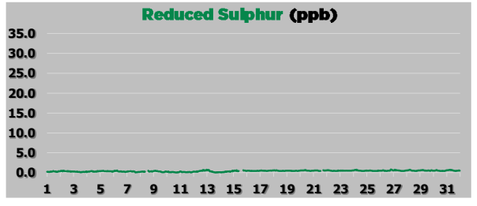
May 2025: Active Monitoring Program

986-C Station

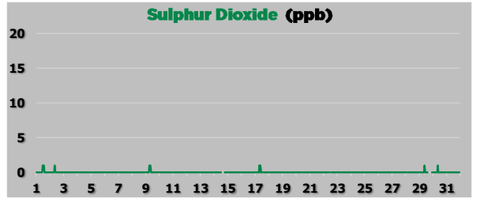


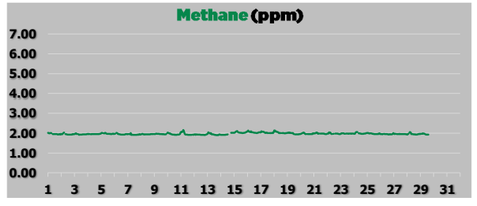


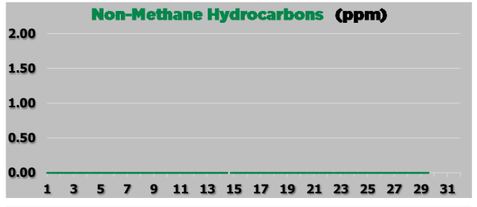


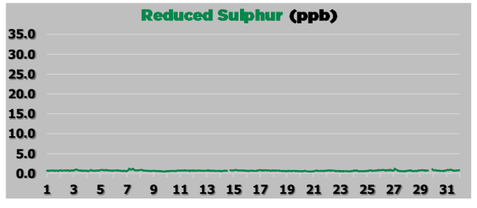


842-B Station

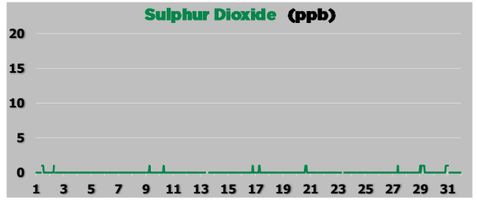


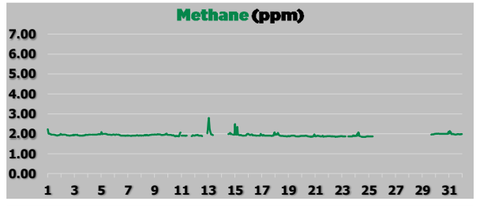


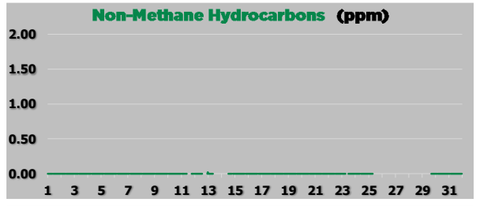


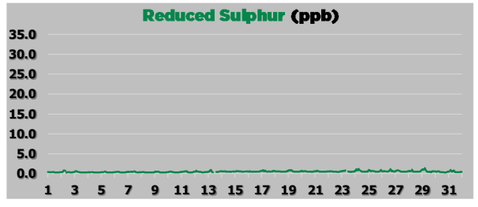


Reno-B Station

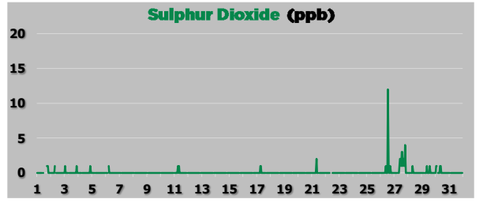


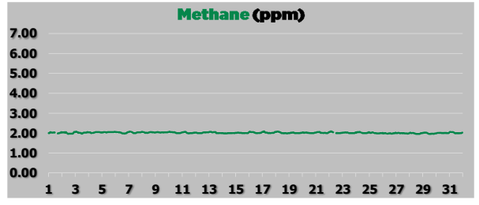


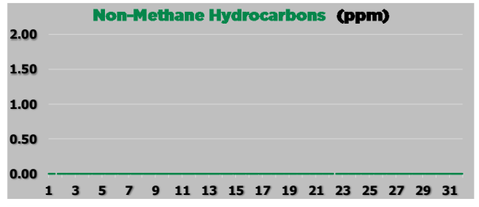


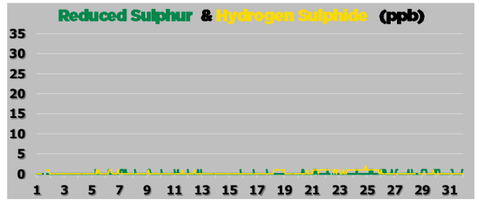


PRC Station

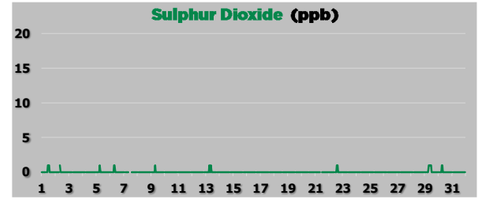


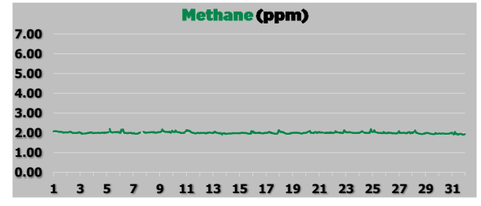


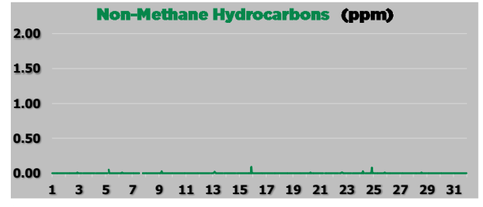


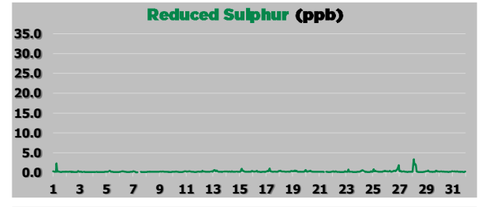


AQHI Station–Grimshaw









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

986-C Station

- AEPA Station audit was conducted on May 21.
- THC/CH4/NMHC: Following the April 22 calibration, NMHC noise persisted until the May 8 monthly calibration resolved the issue. Data from this period was discarded, resulting in 177 hours of downtime and 76.2% operational uptime (DINC#0016494).
- TRS: On May 15, PRAMP's Thermo 43iQ-TL TRS analyzer (s/n: 1191833341) was replaced with BV's Thermo 43i-TLE (s/n: 1152940011), resulting in 7 hours of downtime.

842-B Station

- AEPA station audit was conducted on May 22.
- No major operational issues were identified this month.

Reno-B Station

- AEPA station audit was conducted on May 23.
- From May 7–13, bad injection events caused 14 hours of downtime due to compromised data quality. On May 13, the Thermo 55i analyzer (s/n: 1193585652) was replaced with a new unit (s/n: 1501663728); installation calibration was completed May 14, resulting in 21 hours of downtime. From May 25–29, methane span drift was observed—despite passing daily zero-span checks, the analyzer failed the May 29 as-found check, and excessive sub-1.8 ppm CH_4 readings led to data invalidation and 103 hours of downtime. Operational uptime was 81.5% (DINC#0017068).

PRC Station

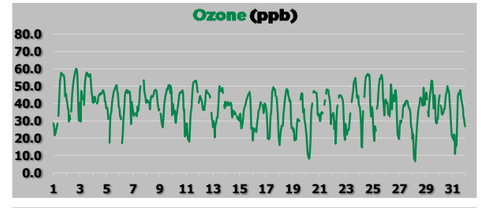
- AEPA station audit was conducted on May 22.
- H2S: On May 1, CNRL's Thermo 450i analyzer, s/n: 1034746224, was removed and replaced by BV's Teledyne T100 analyzer, s/n: 1014. One hour of downtime was recorded due to this event

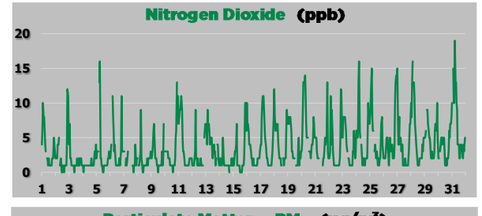
AQHI Station – Grimshaw

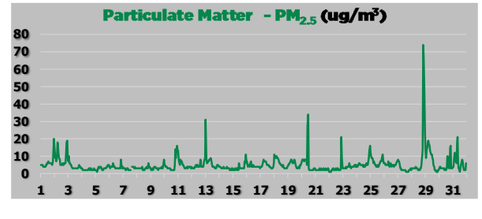
- AEPA station audit was conducted on May 21.
- No major operational issues were identified this month.

NMHCs Canister Sampling Program

- No valid NMHC canister events were recorded this month







May 2025: Active Monitoring Program

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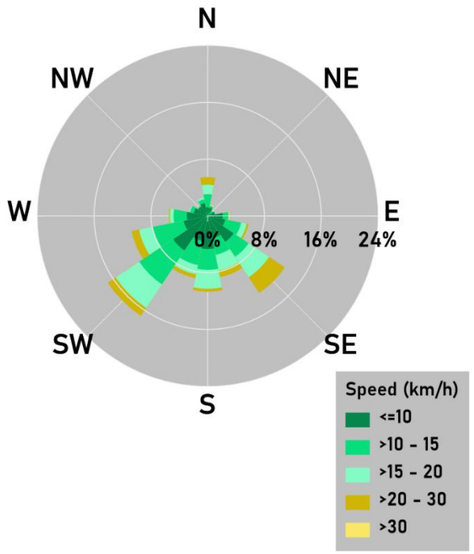
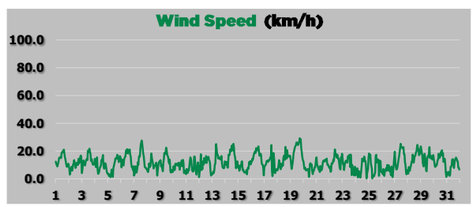
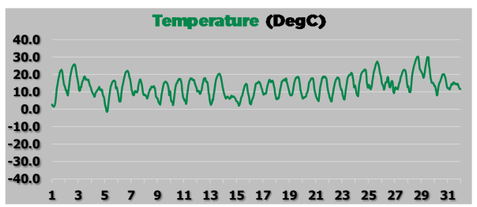
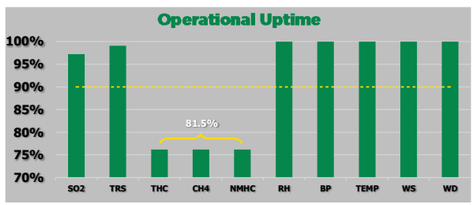
PEACE RIVER AREA MONITORING PROGRAM

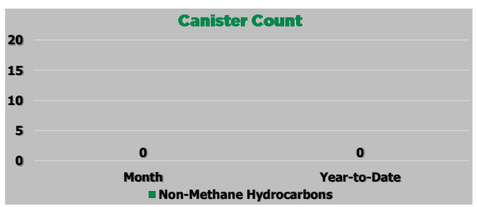
986-C Station



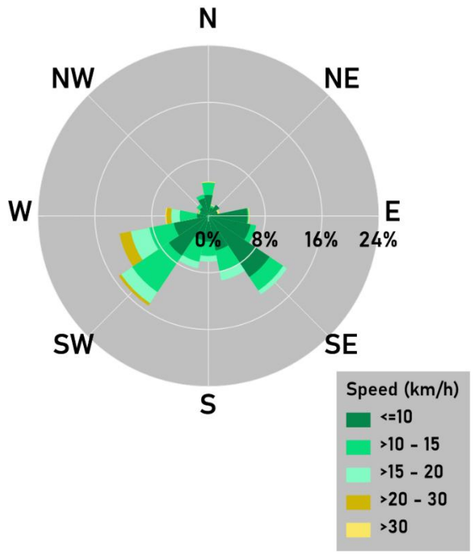


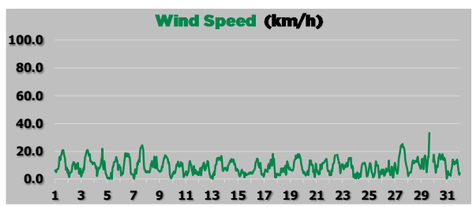


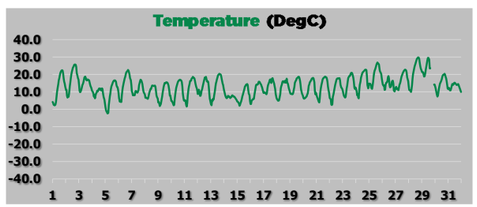


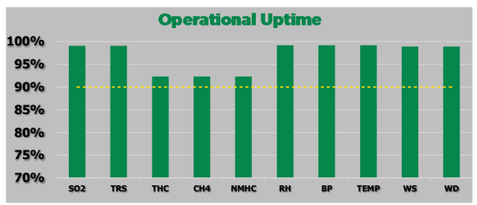


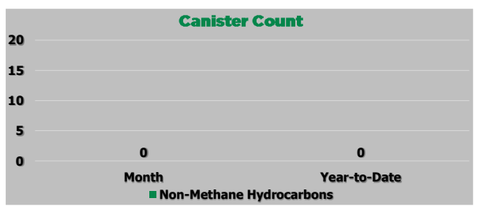
842-B Station



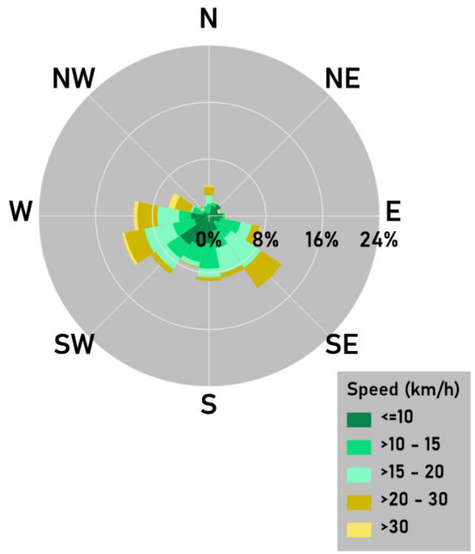


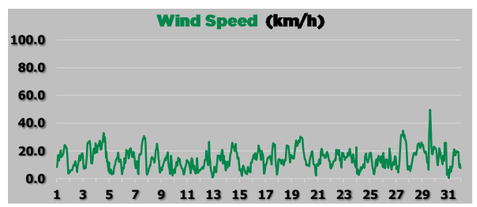


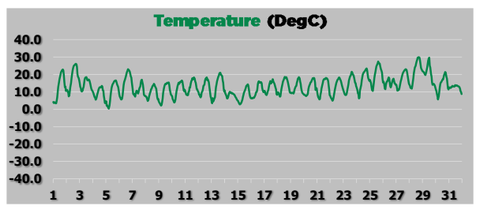


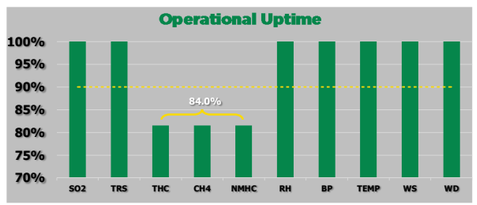


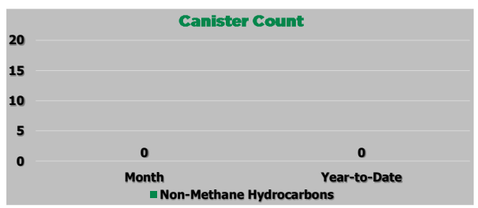
Reno-B Station



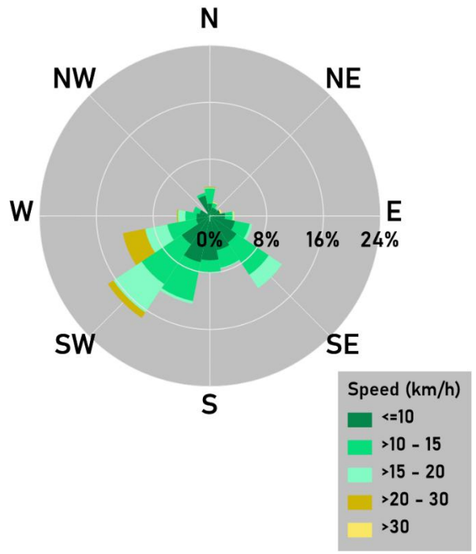


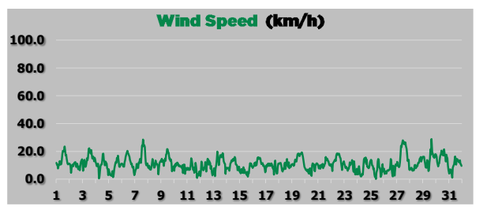


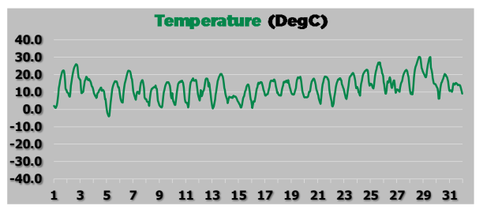


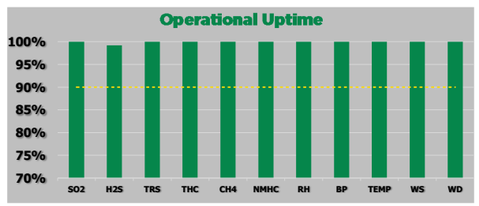


PRC Station









Targets, Guidelines, and Objectives

Sulphur Dioxide 1h AAAQO = 172 ppb
Ozone 1h AAAQO = 76 ppb
Particulate Matter ($PM_{2.5}$) 1h AAAQG = 80 ug/m^3
Nitrogen Dioxide 1h AAAQO = 159 ppb
Operational Uptime Requirement = 90%
AQHI Risk Value = 1-3 Low, 4-6 Moderate, 7-10 High, >10 Very High

AQHI Station–Grimshaw