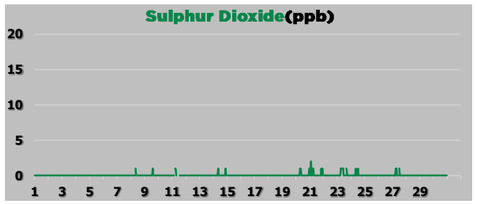
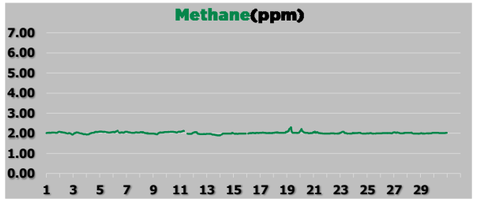
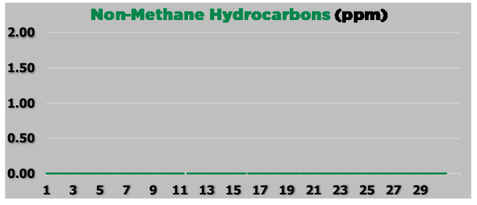
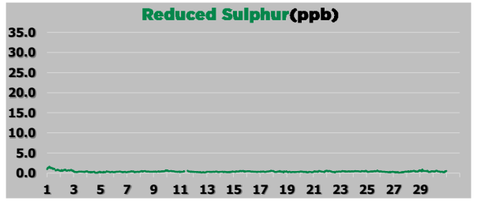
# April 2024: Active Monitoring Program

## 986-C Station

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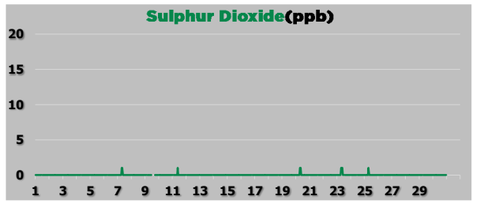


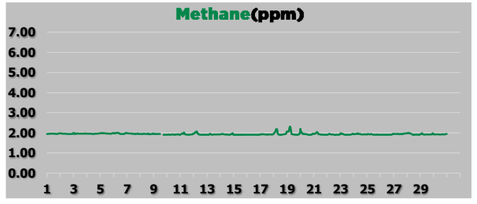


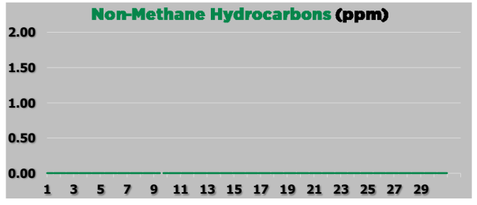


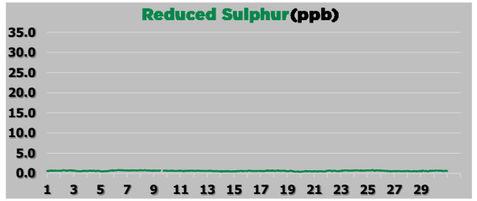


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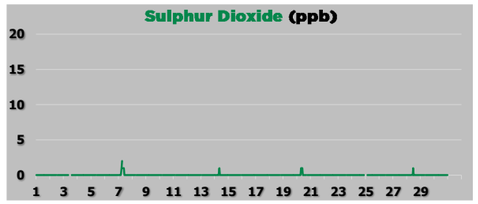
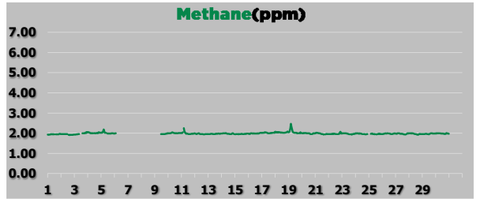
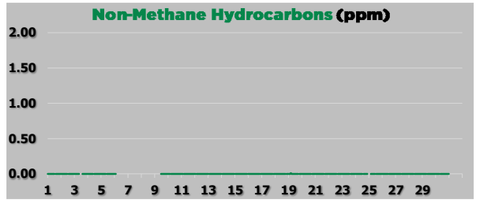
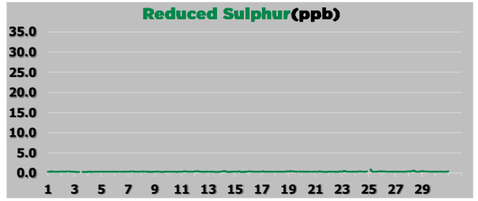
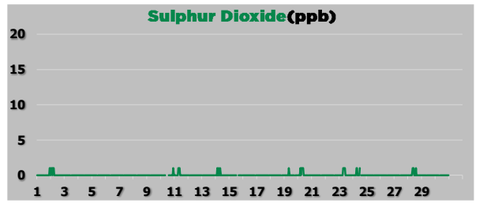


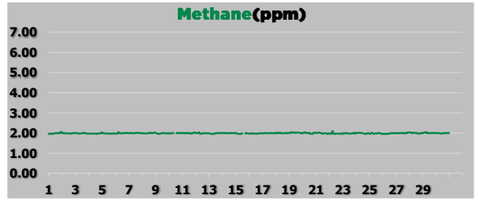



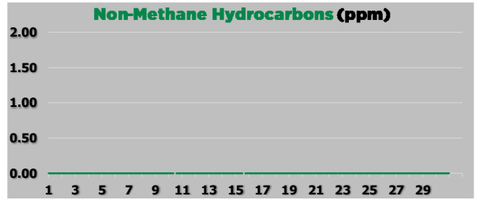



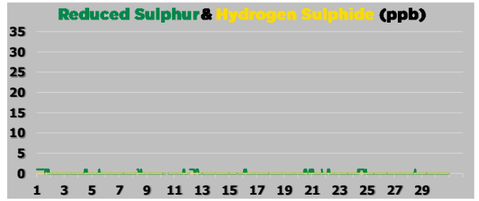




## PRC Station

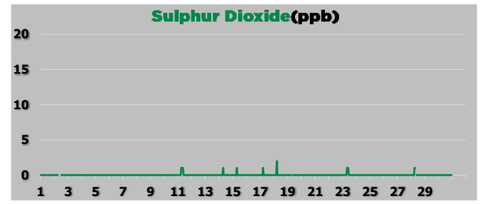


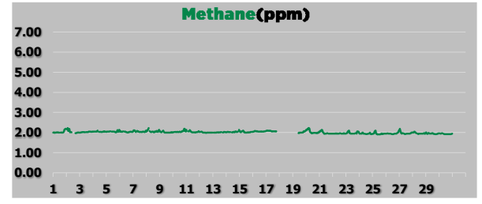



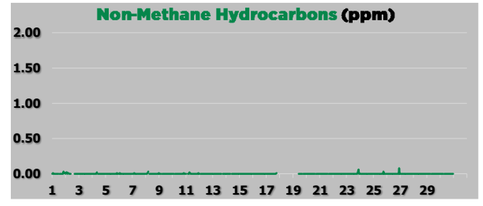



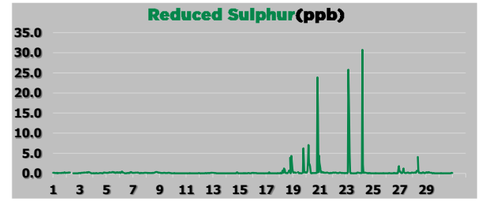



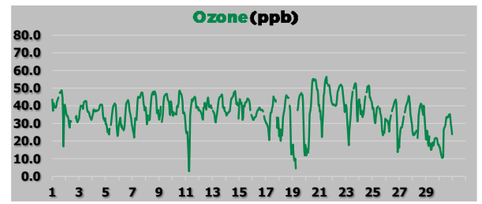

## AQHI Station – Grimshaw

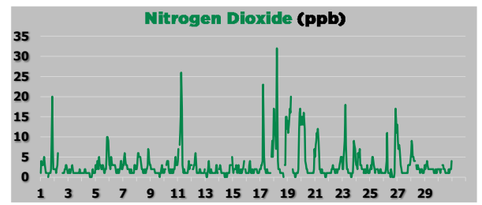


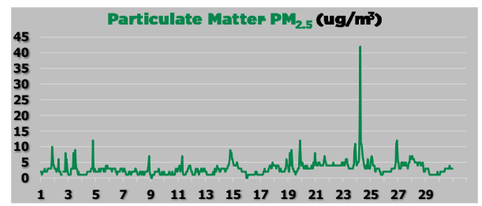




## Field Operations Summary (detailed field operations notes can be found in the monthly technical reports on the PRAMP website)

**986-C Station**

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable. All data collected this month were compliant with the requirements outlined in the AMD 2016. All parameters met the 90% operational uptime.

**842-B Station**

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable. All data collected this month were compliant with the requirements outlined in the AMD 2016. All parameters met the 90% operational uptime.

**Reno-B Station**

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable. All data collected this month were compliant with the requirements outlined in the AMD 2016. All parameters met the 90% operational uptime requirement, except THC/$CH_4$/NMHC (88.2%). DINC0006946.
- **THC/$CH_4$/NMHC:** The Thermo 55i analyzer, s/n: 12101910497, failed on April 6 hour 3 and was replaced by the Thermo 55i analyzer, s/n: 1193585652, on April 8. The analyzer remained offline overnight for column conditioning. The channels were brought back online after a successful installation calibration on April 9. Eighty hours of downtime were recorded.

**PRC Station**

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable. All data collected this month were compliant with the requirements outlined in the AMD 2016. All parameters met the 90% operational uptime.

**AQHI Station – Grimshaw**

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable. All data collected this month were compliant with the requirements outlined in the AMD 2016. All parameters met the 90% operational uptime.
- The Thermo 55i analyzer (s/n: 1191032505) failed the April 18 calibration due to injection issues. It was replaced by another Thermo 55i analyzer (s/n: 12101910497) on April 18. After stabilizing overnight, a successful calibration was completed on April 19. Data were invalidated back to April 17, hour 20, resulting in 38 hours of downtime.
- Elevated readings were recorded for most gas parameters on April 17, 18, 21, 23, and 24. High TRS concentrations were also noted on April 23, hours 4-7. One-minute data were reviewed and confirmed valid, though some NOx, NO, and NMHC readings exceeded the 500 ppb calibration range.

**NMHCs Canister Sampling Program**

- No canister events were recorded in April.
- ***Note:*** the canister event from January 2024 at the Reno station has been removed from the record because the hydrocarbon analyzer was not calibrated correctly at the time, and these data were discarded.

# April 2024: Active Monitoring Program

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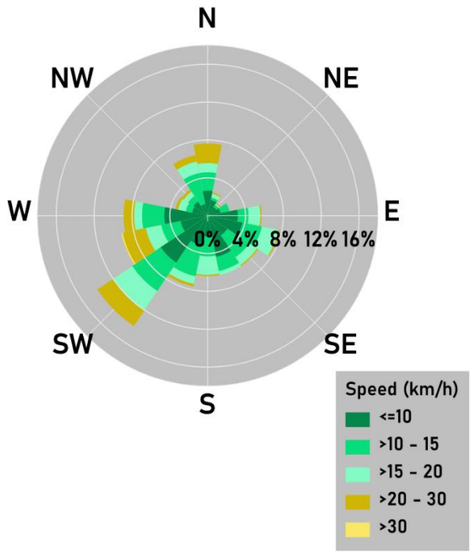
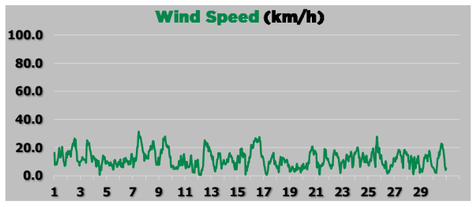
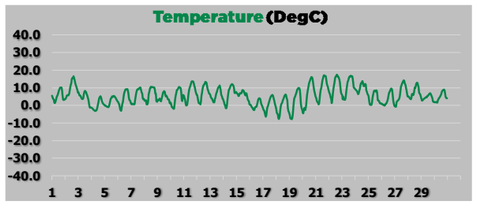
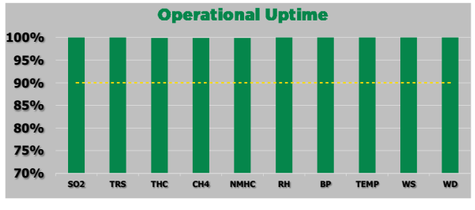
PEACE RIVER AREA MONITORING PROGRAM

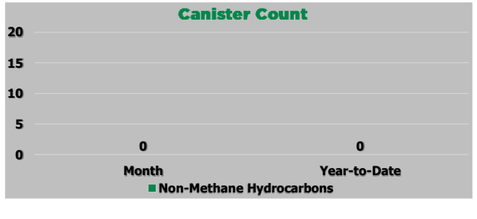
## 986-C Station

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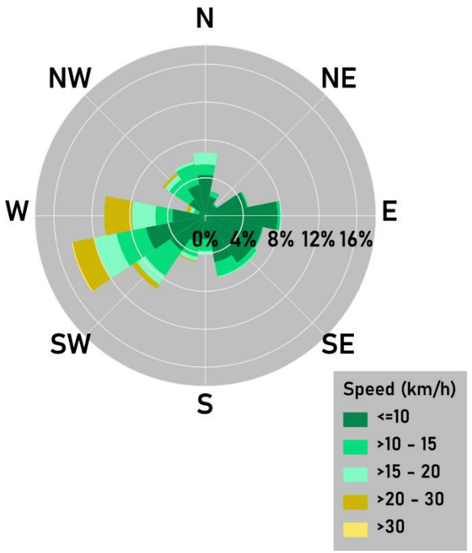
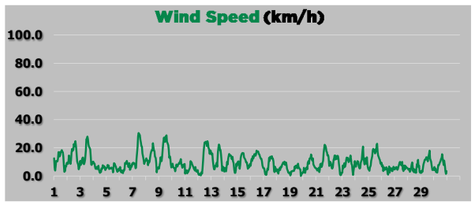
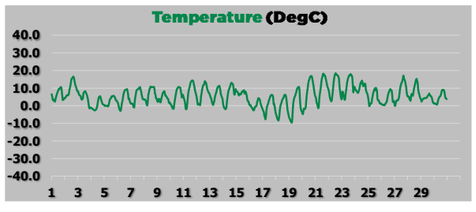
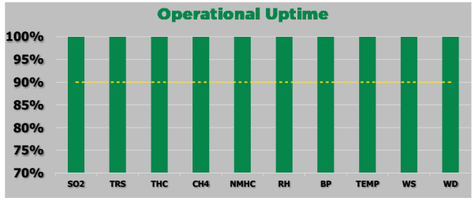
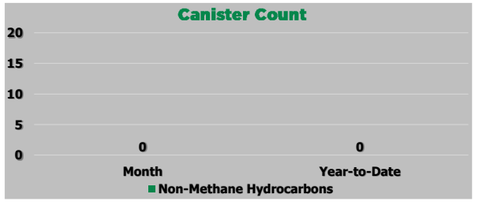


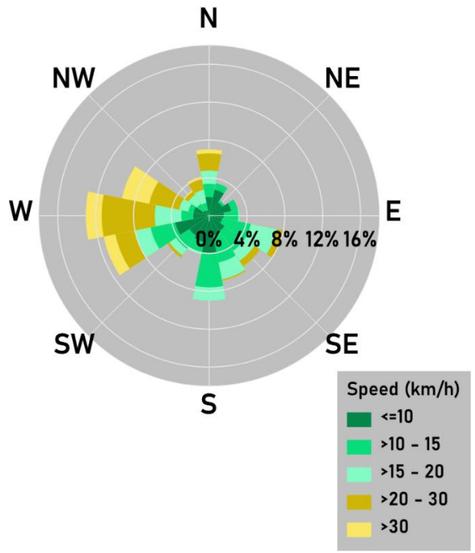



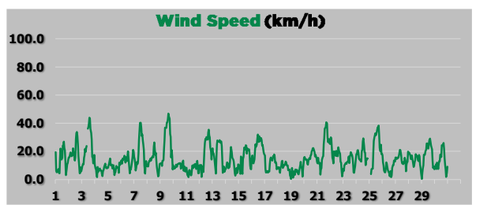



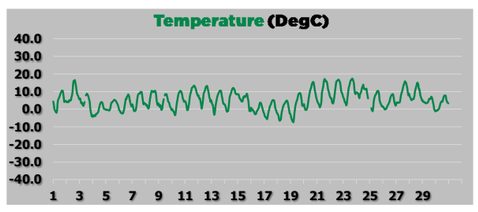



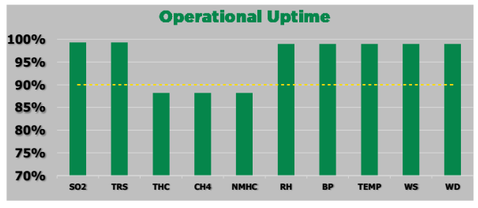



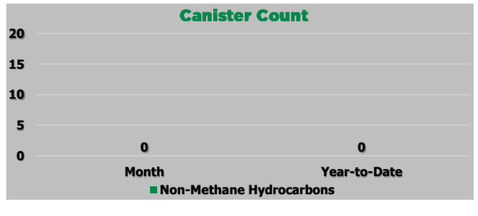

## Reno-B Station

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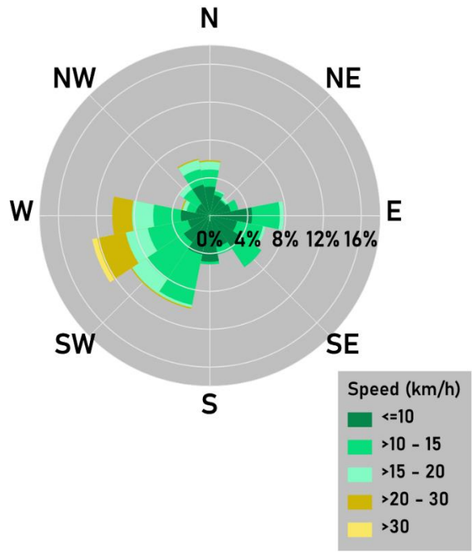


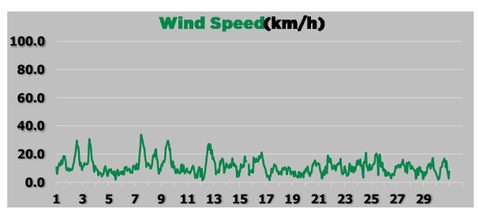


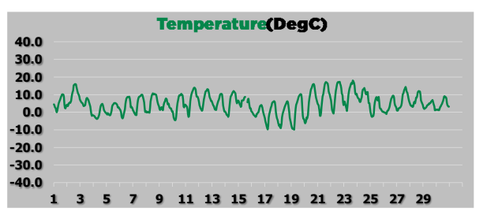


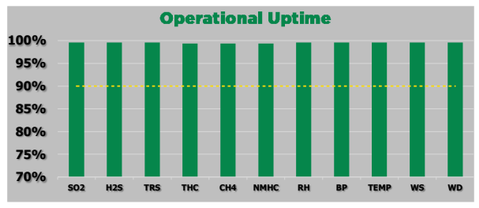


### Targets, Guidelines, and Objectives

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