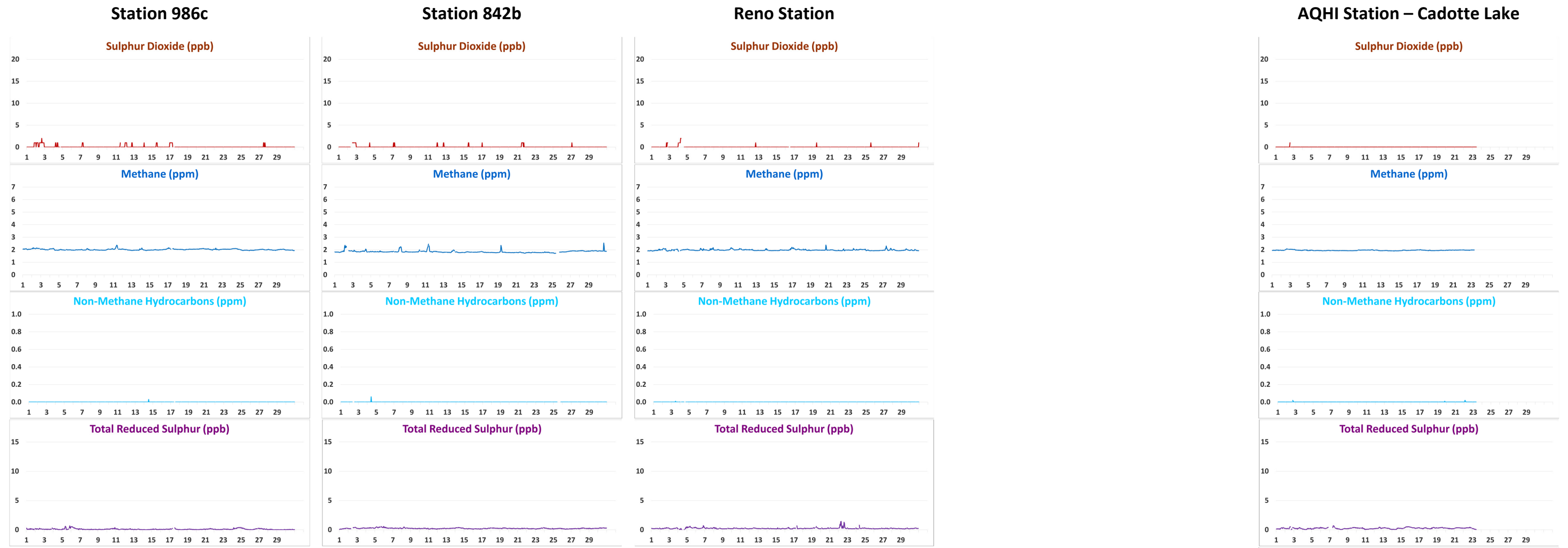


November 2021: Continuous Monitoring Program



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

986c Station

- **SO₂**: The permeation tube was replaced on November 4. One hour of downtime was recorded as a result. The expected span value was updated after the monthly calibration

842b Station

- **THC/CH₄/NMHC**: Isolated or occasional bad injections were recorded starting November 13, and methane concentrations also trended lower, starting November 18. A successful shut-down calibration was completed before troubleshooting on November 25. No significant problems were found. The N₂ gas cylinder was replaced to fix the injection issue. The cause for the low recorded methane concentrations was likely because the analyzer required extra time to stabilize after the desiccant was replaced. Seven hours of downtime were recorded due to this event.

Reno Station

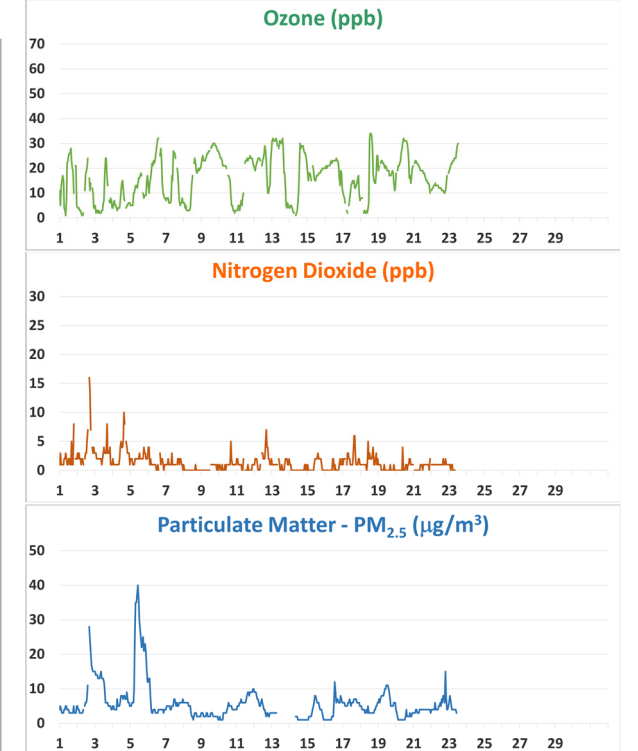
- **TRS**: The analyzer failed both scheduled and repeat span check on November 17. An as-found points check was completed on November 19. The analyzer passed the check requirements. The analyzer again failed the daily span check on November 23 and November 29, and the repeat span check on November 24. Maintenance were performed on the analyzer on December 2 to correct the drift. Because the analyzer passed the multi-point calibration on December 2, data collected between November 17 and November 29 were considered valid. Four hours of downtime were recorded due to additional quality checks.

AQHI – Cadotte Lake Station

- All parameters did not meet the 90% operational uptime requirement. The monitoring program at this location was completed on November 23. **Notification-PRAMP-20211122**
- **TRS**: The analyzer failed due to a firmware issue on November 6. The issue was fixed on November 7. A repeat zero-span check was completed to confirm the analyzer’s functionality. Eleven hours of downtime were recorded as a result.
- **PM_{2.5}**: The PM unit failed due to a firmware issue on November 13. The issue was fixed on November 14. Twenty-five hours of downtime were recorded as a result.

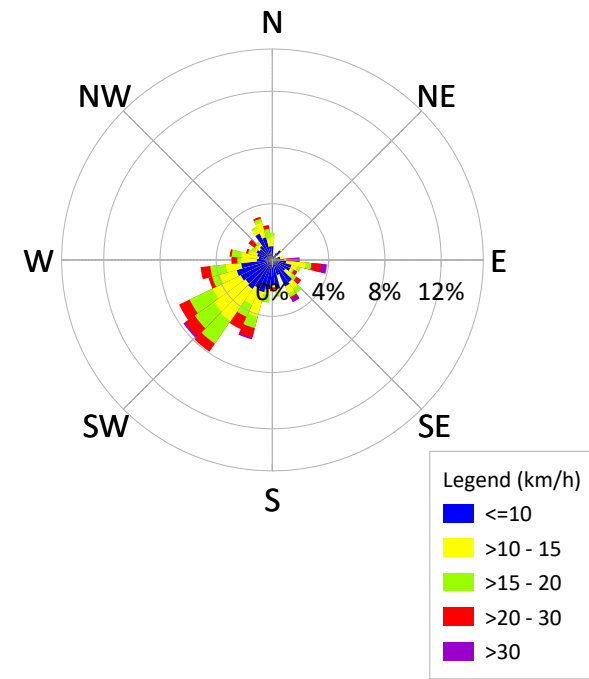
VOCs Canister Sampling program

- There were no valid canister events.

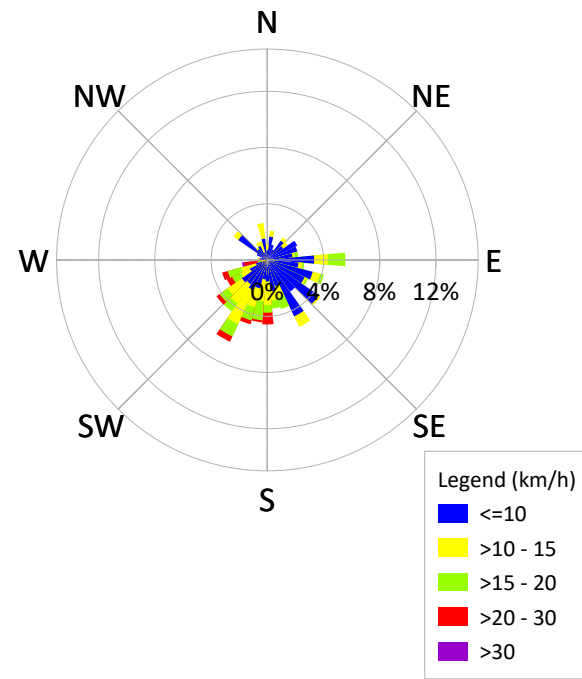


November 2021: Continuous Monitoring Program

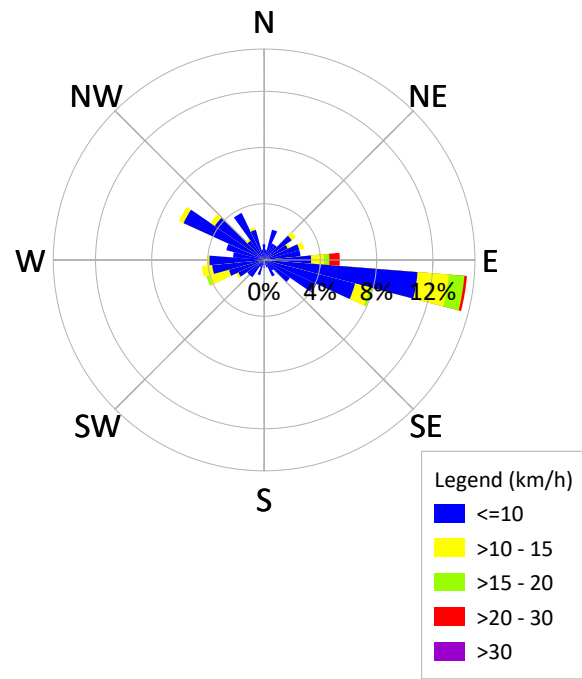
Station 986c



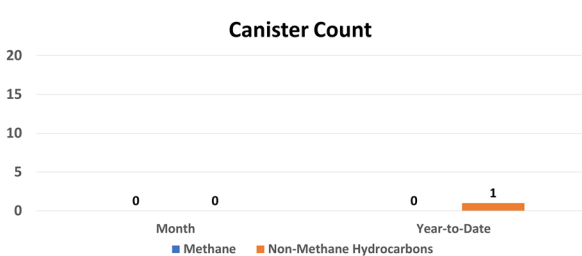
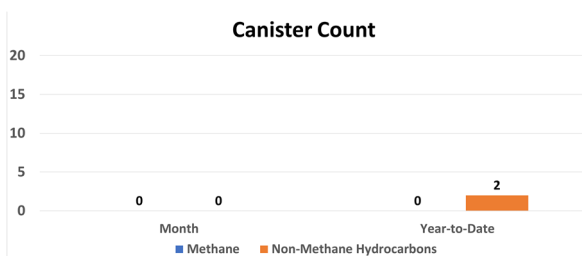
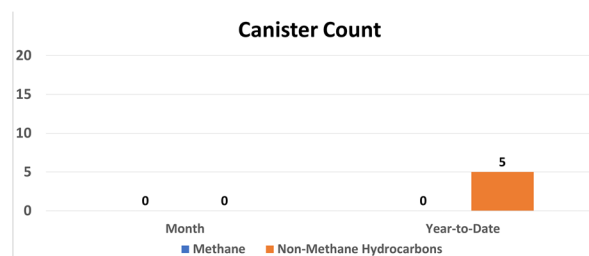
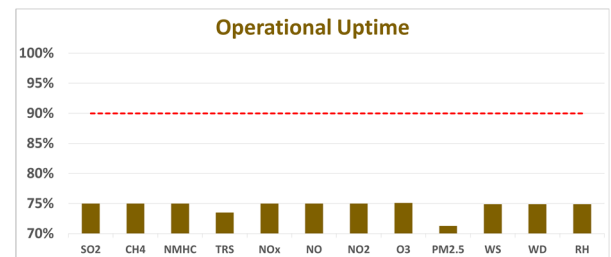
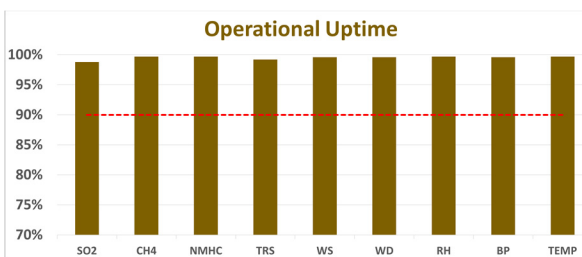
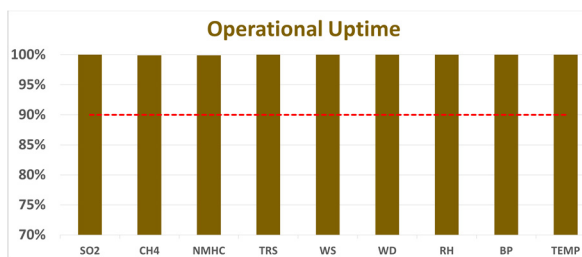
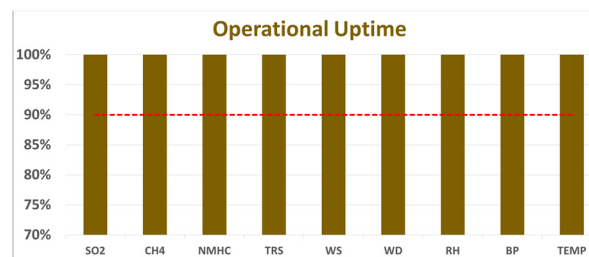
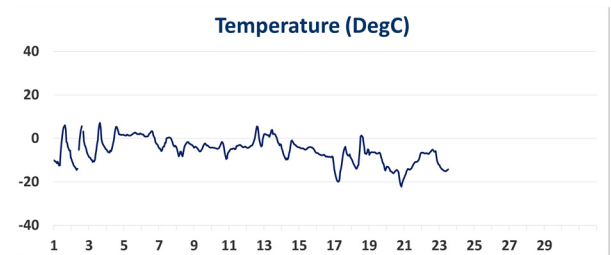
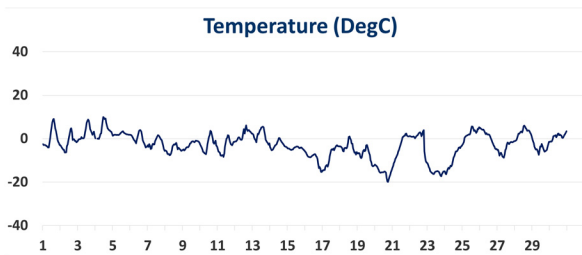
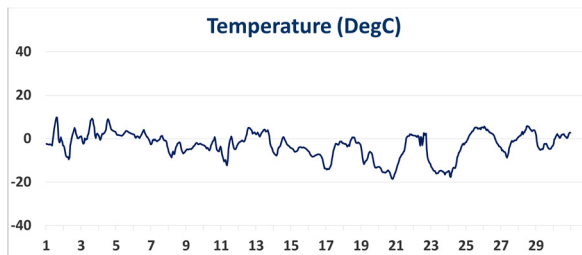
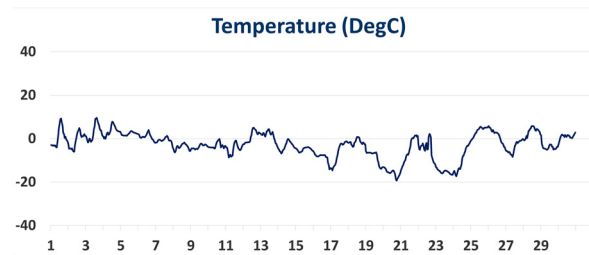
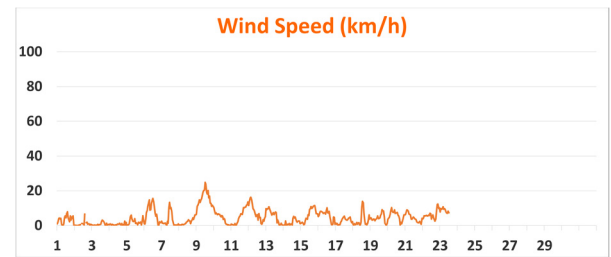
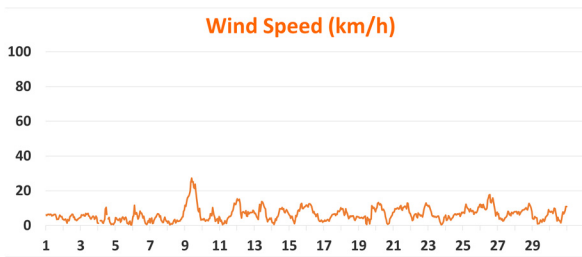
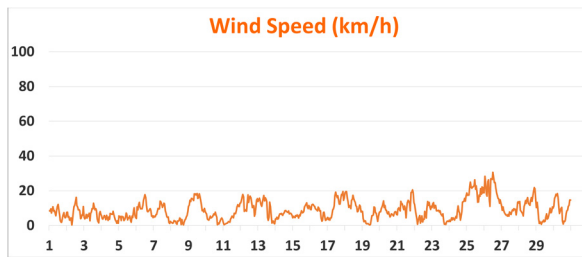
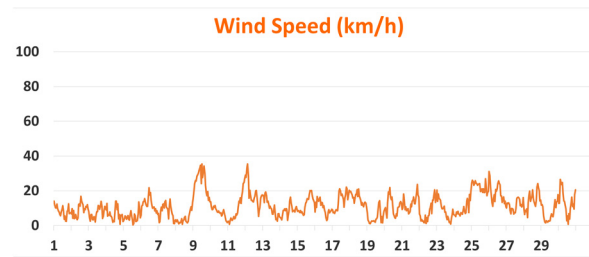
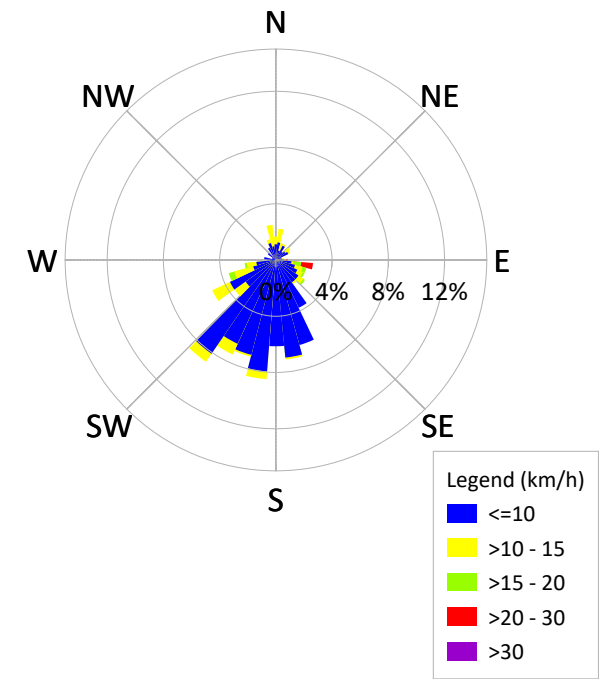
Station 842b



Reno Station



AQHI Station – Cadotte Lake



Targets, Guidelines, and Objectives

- Sulphur Dioxide 1h AAAQO = 172 ppb
- Ozone 1h AAAQO = 76 ppb
- Particulate Matter AAAQG = 80 µg/m³
- Nitrogen Dioxide AAAQO = 159 ppb
- Operational Uptime Requirement = 90%
- AQHI Risk Value = 1-3 Low, 4-6 Moderate, 7-9 High, 10+ Very High

