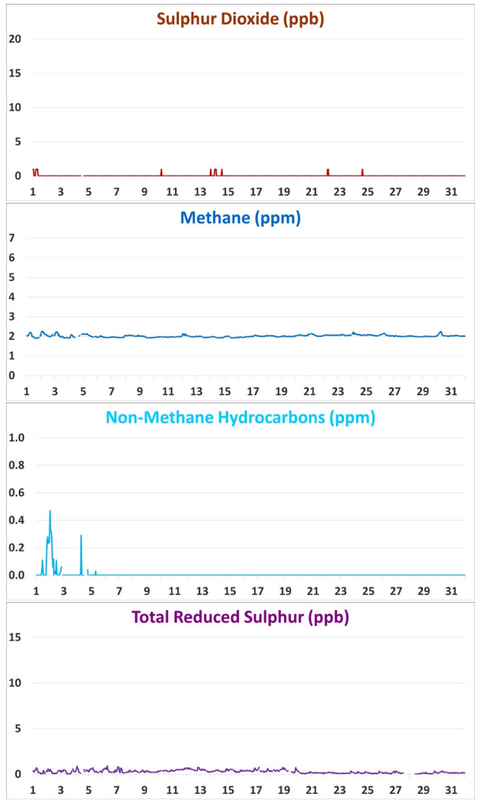
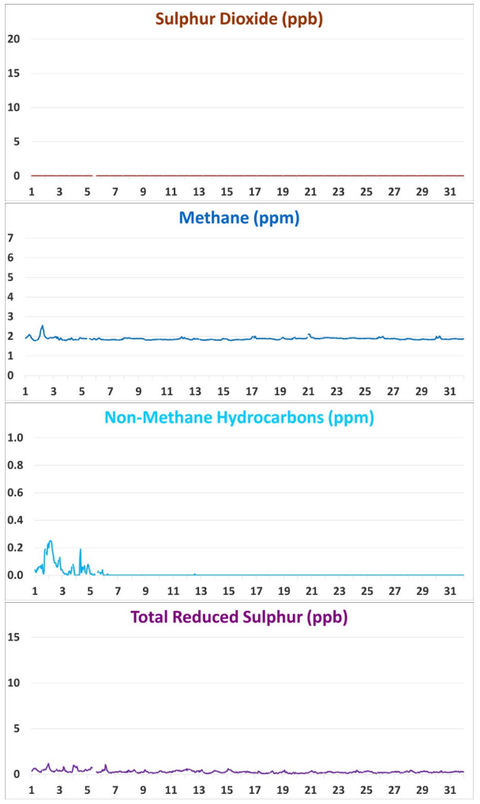
August 2021: Continuous Monitoring Program

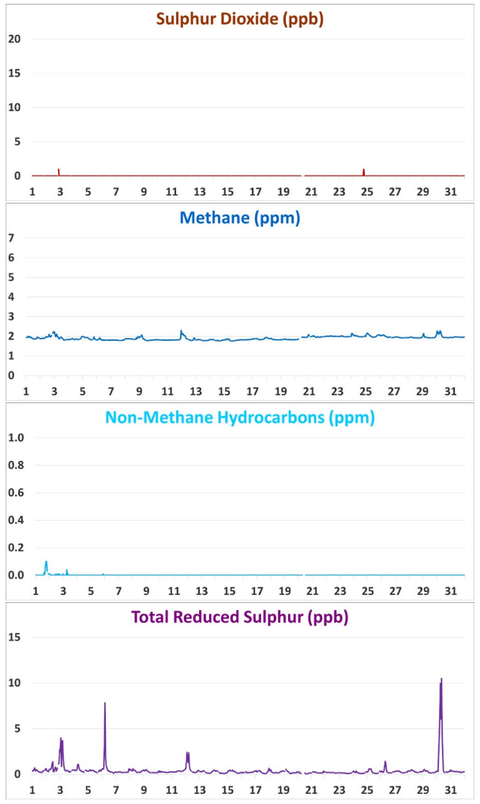
Station 986c



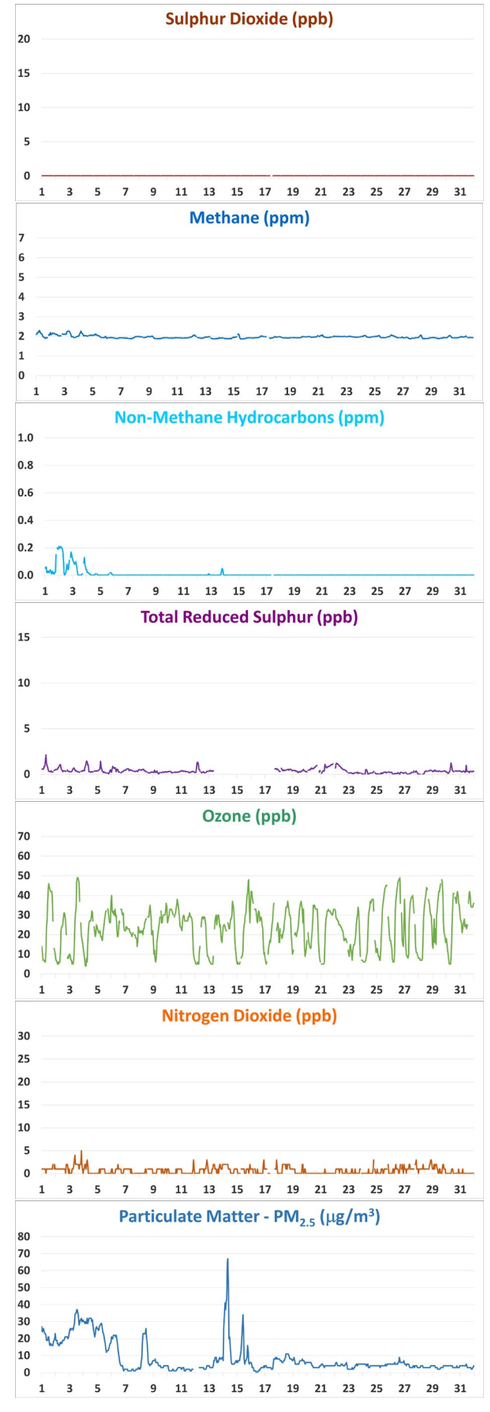
Station 842b



Reno Station



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

- **TRS:** The analyzer showed a significant drift in the span check response on August 18. An as-found points check that was completed on August 18 showed a similar response. A repeat calibration was completed on August 19 to correct the drift. Six hours of downtime were recorded due to additional quality checks. The analyzer failed on August 27 due to firmware issues. The analyzer was reset remotely following a successful repeat zero-span check on August 28. Twenty hours of downtime were recorded due to this event.

842b Station

- No major operational issues to report.

Reno Station

- No major operational issues to report.

AQHI – Cadotte Lake Station

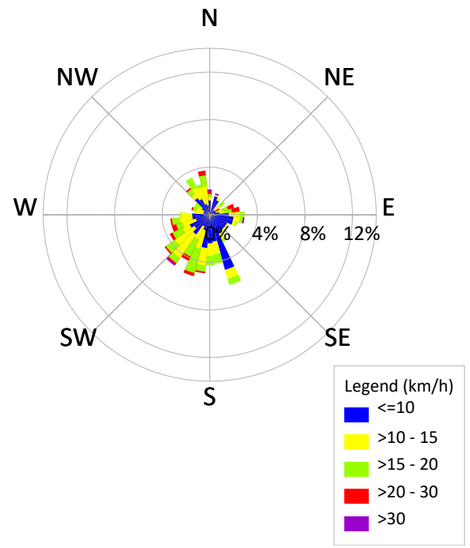
- The 24-hr $PM_{2.5}$ AAAQO was exceeded on August 3. The 24-hour average was 30.1µg/m^3 (AAAQO is 29µg/m^3). The elevated $PM_{2.5}$ concentrations were due to BC wildfires. Reference #381043.
- **TRS:** The analyzer failed the daily zero-span check on August 14 due to a convertor failure. On August 17, the convertor was replaced. A successful post-repair calibration was completed afterwards. Data were invalidated back to the last valid zero-span check, which was August 13 hour 9. One hundred hours of data were invalidated due to this issue. The analyzer failed on August 20, 21 and 28 due to firmware issues. The analyzer was reset remotely each time following a repeat zero-span check to confirm the analyzer's functionality. Nine hours of downtime were recorded due to these events. TRS did not meet the 90% AMD uptime requirement (85.3%). AEP reference #: 382077.
- **PM2.5:** The PM unit failed on August 11 due to firmware issues. The equipment was reset remotely, and valid data collection resumed on August 12 hour 7. Ten hours of downtime were recorded due to this event.

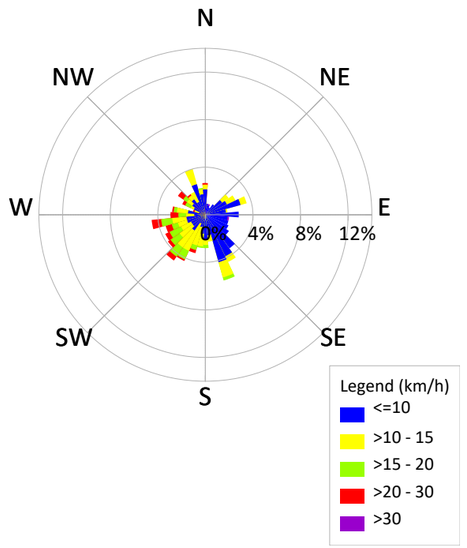
VOCs Canister Sampling program

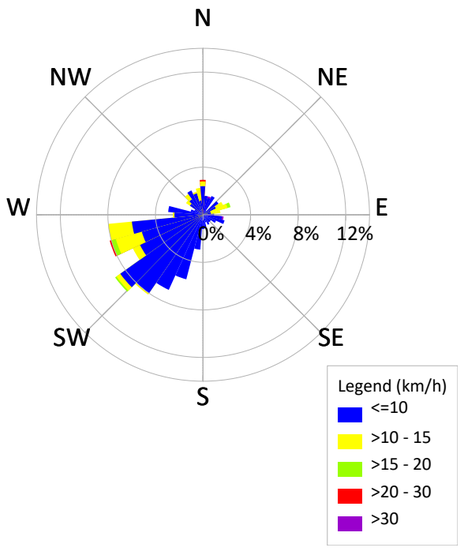
- Elevated NMHC was recorded between August 1 and 5 across the region due to BC wildfires. Two NMHC canister events were recorded at the 986c station as a result (August 1 and 4).

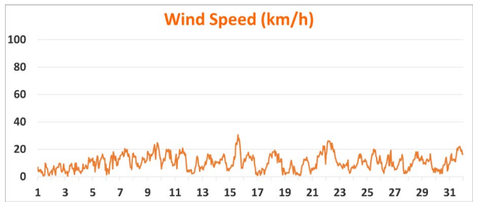
August 2021: Continuous Monitoring Program

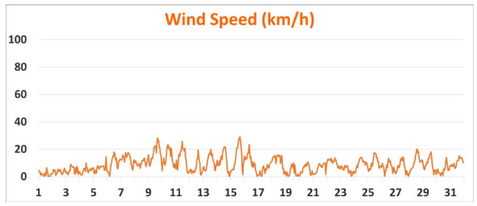
Station 986c

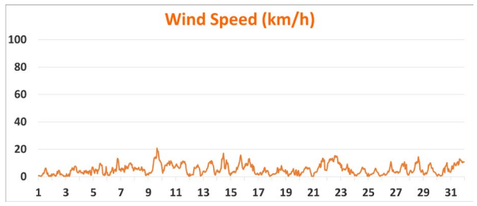


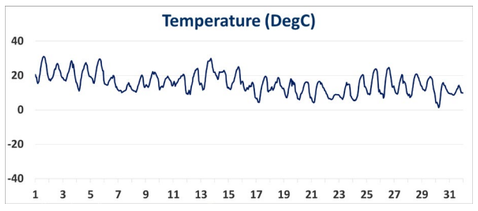


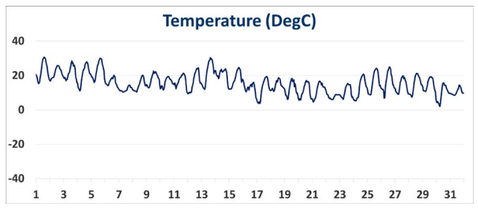


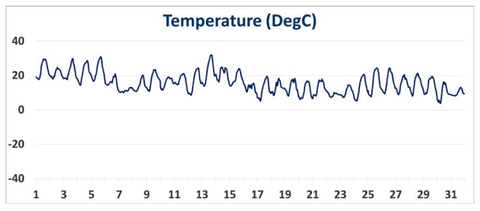


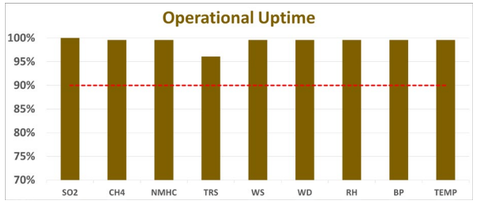


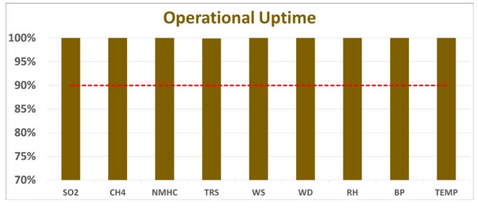


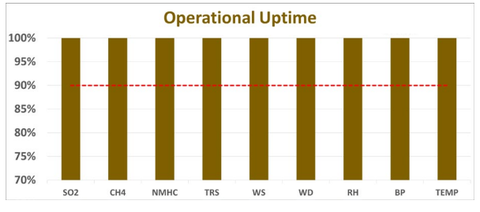


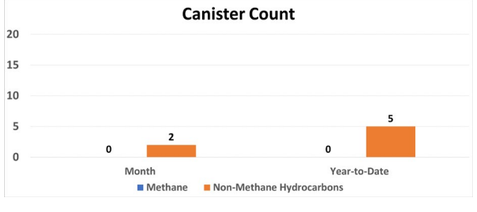


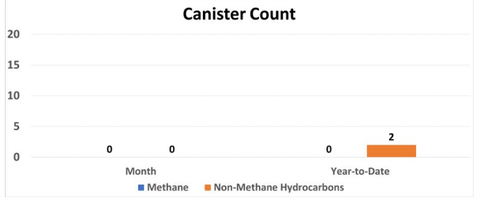


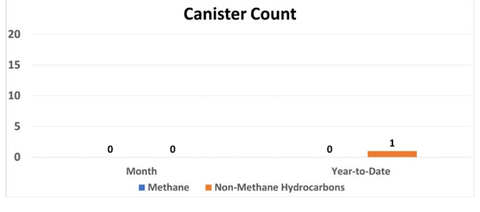








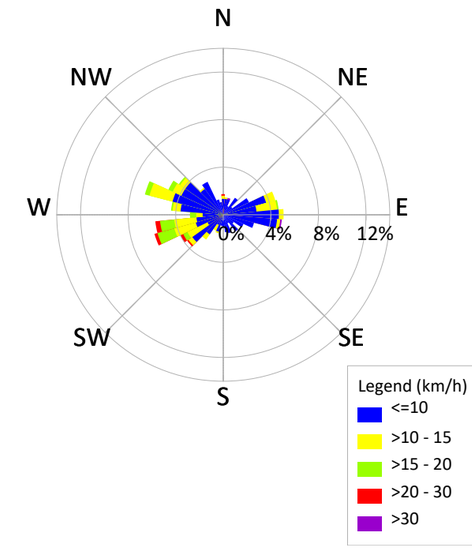


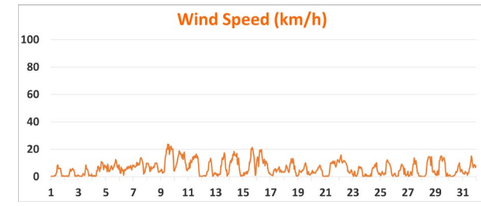


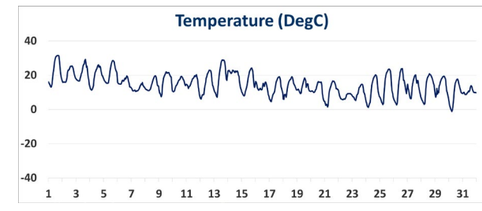
Targets, Guidelines, and Objectives

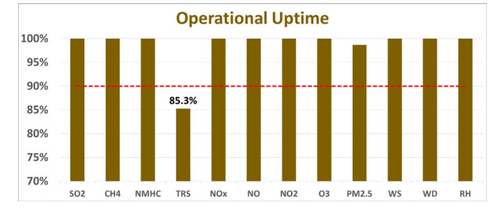
Sulphur Dioxide 1h AAAQO = 172 ppb
Ozone 1h AAAQO = 76 ppb
Particulate Matter AAAQG = 80 µg/m^3
Nitrogen Dioxide AAAQO = 159 ppb
Operational Uptime Requirement = 90%
AQHI Risk Value = 1-3 Low, 4-6 Moderate, 7-9 High, 10+ Very High

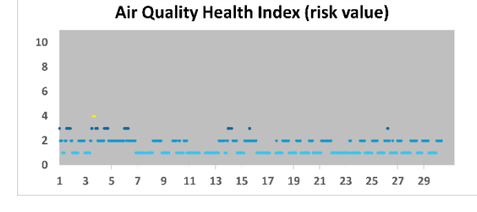
AQHI Station – Cadotte Lake





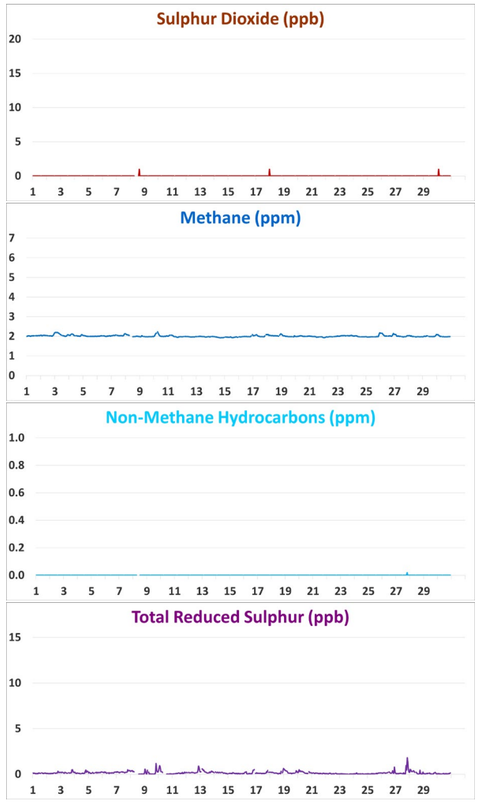




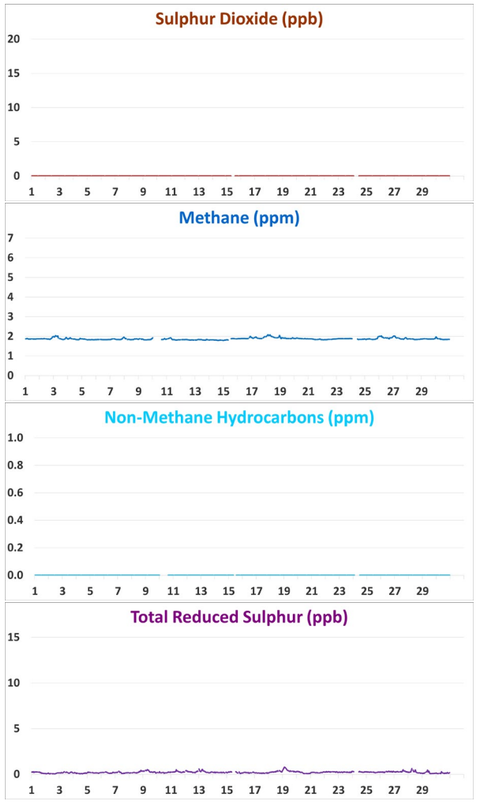


September 2021: Continuous Monitoring Program

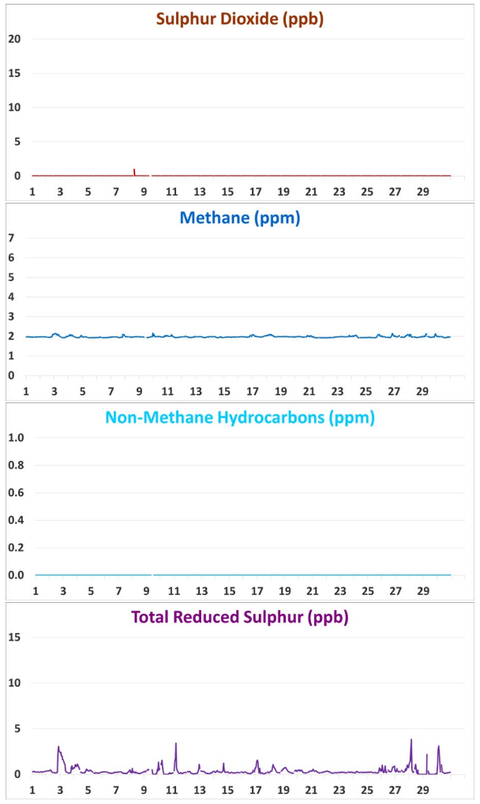
Station 986c



Station 842b



Reno Station



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

- **TRS:** A repeat multi-point calibration was completed on September 10 as a quality assurance check after the analyzer exhibited slow response during the September 8 calibration. The calibration check met all check requirements. Six hours of downtime were recorded due to this additional quality check.

842b Station

- **All parameters**: No data were recorded on September 24 between hour 3 and hour 10 due to a datalogger issue. Eight hours of data were lost due to this event. The daily zero-span check was interrupted due to this event as well.
- **THC/CH4/NMHC:** The analyzer failed on September 10 due to a problem with the hydrogen generator. The issue was corrected and a successful zero-span check was completed on September 10 hour 14. Thirteen hours of downtime were recorded due to this event.

Reno Station

- No major operational issues to report.

AQHI – Cadotte Lake Station

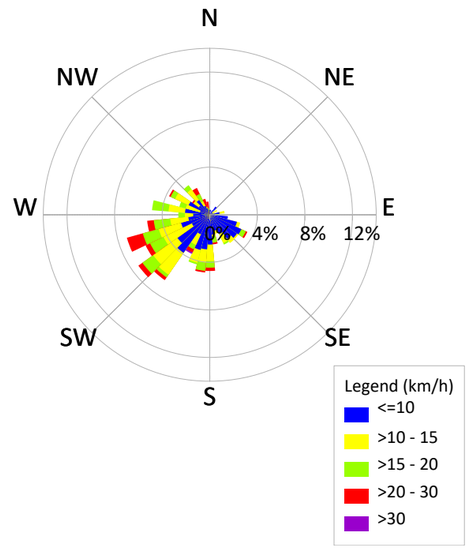
- **All parameters:** Two power outages occurred this month. Eight to Twelve hours of downtime were recorded as a result.
- **$PM_{2.5}$:** The PM unit failed on September 28 due to firmware issues. The equipment was reset remotely, and valid data collection resumed on September 28 hour 7. Five hours of downtime were recorded due to this event.

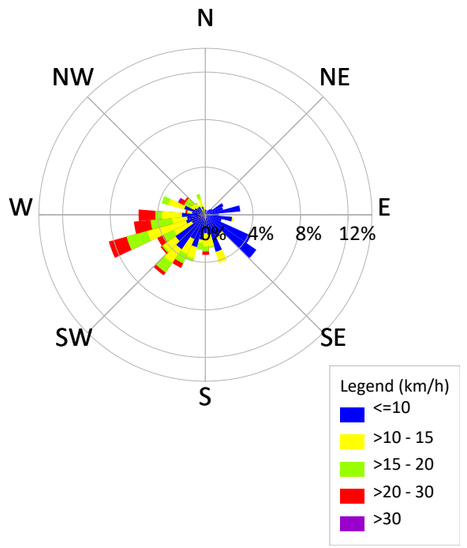
VOCs Canister Sampling program

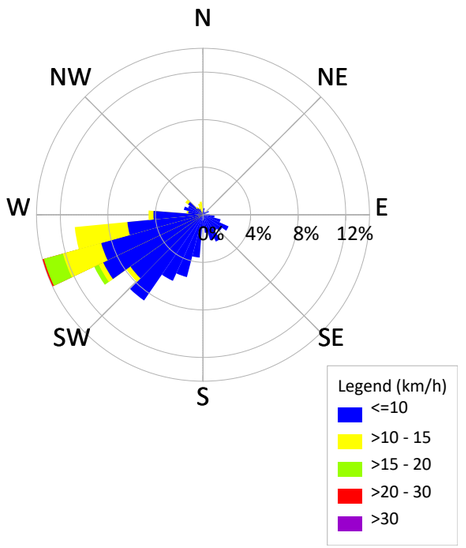
- No canister events.

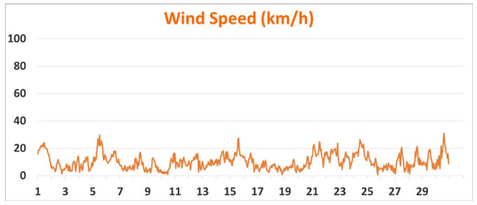
September 2021: Continuous Monitoring Program

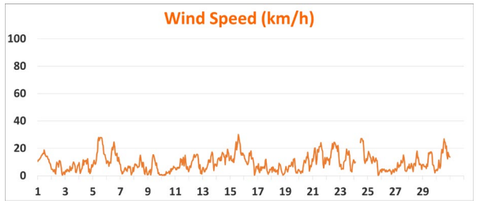
Station 986c

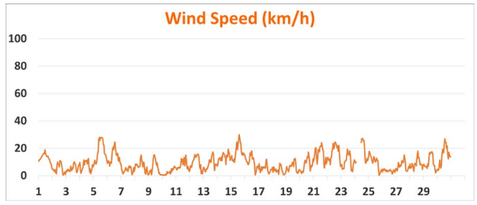


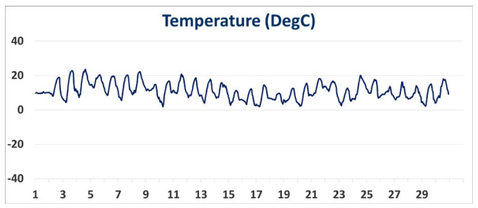


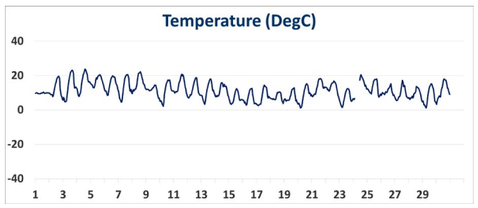


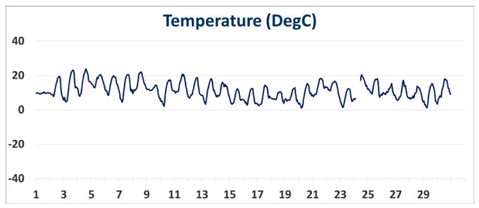


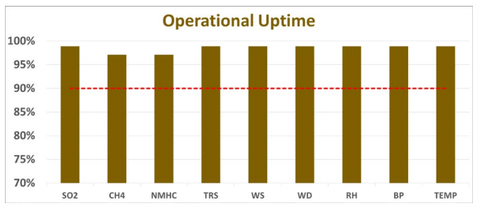


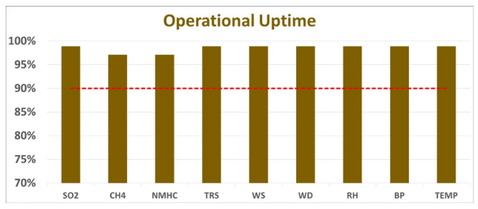


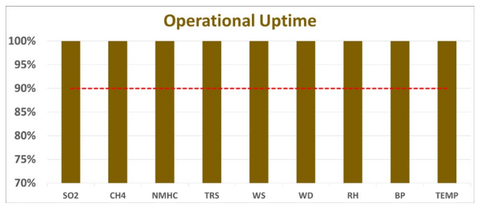


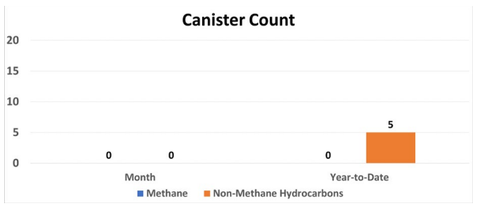


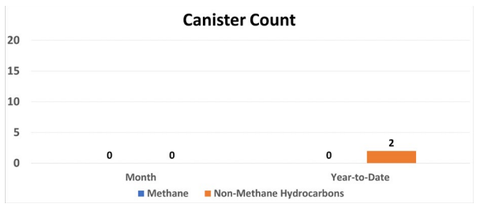


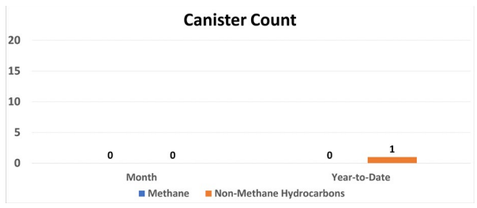




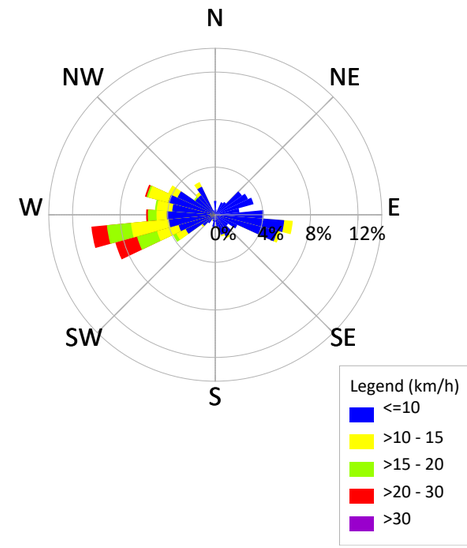


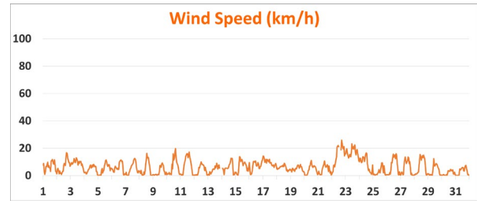


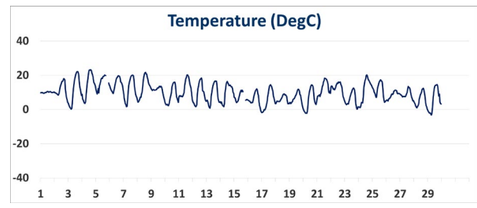


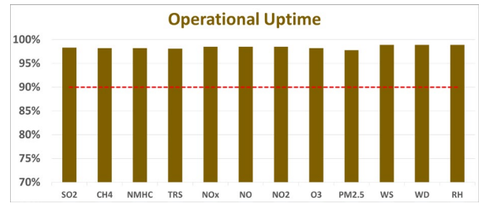


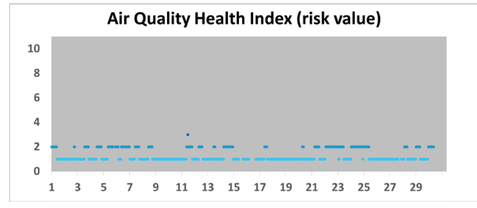
AQHI Station – Cadotte Lake









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