

November 2023: Active Monitoring Program

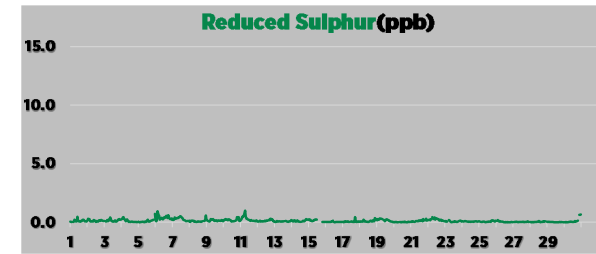
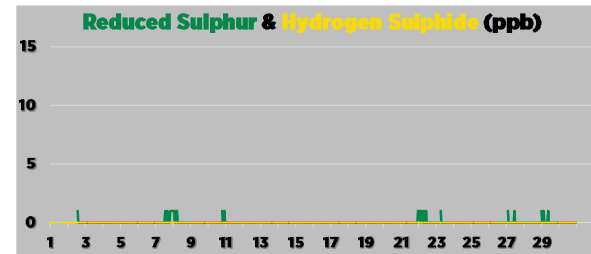
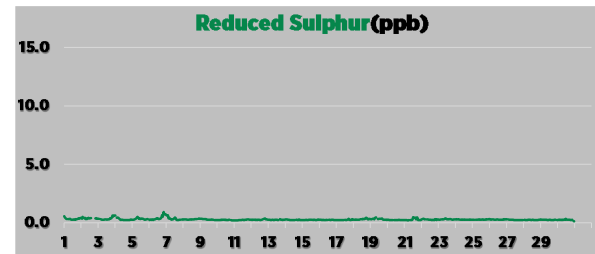
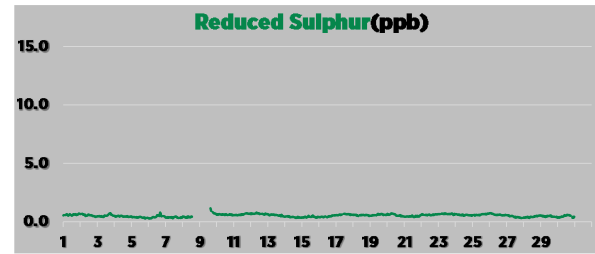
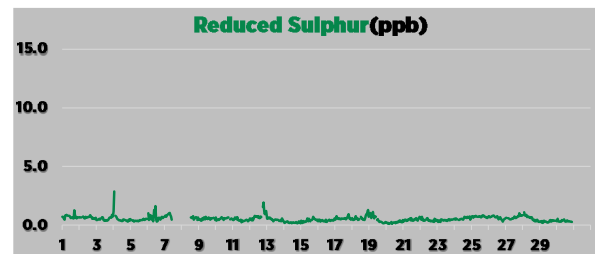
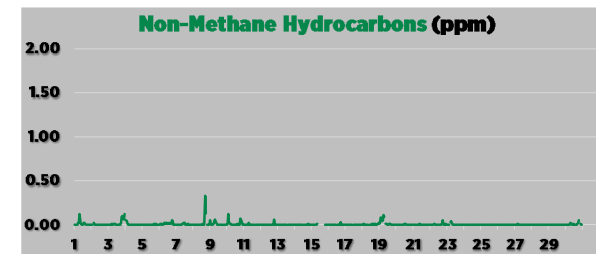
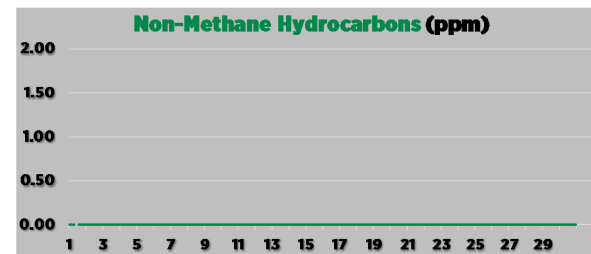
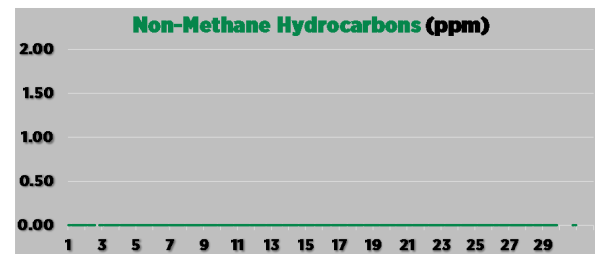
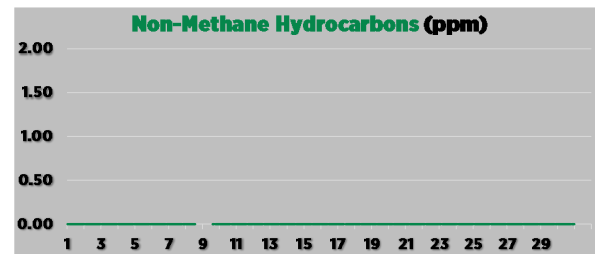
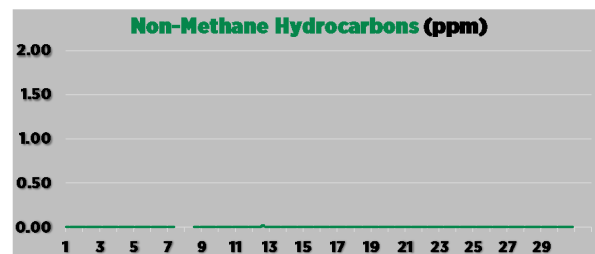
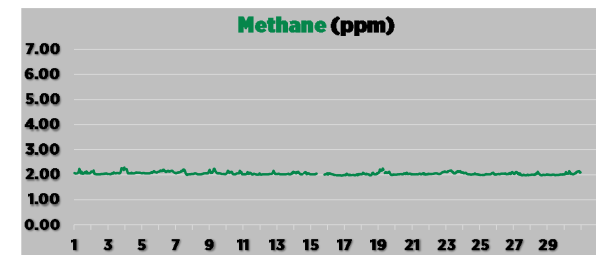
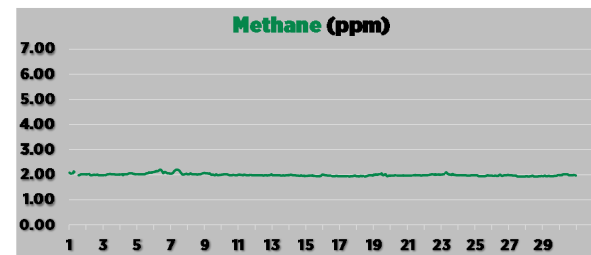
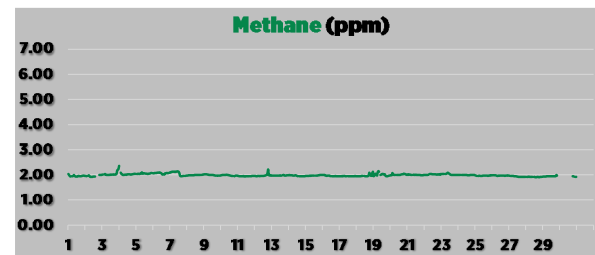
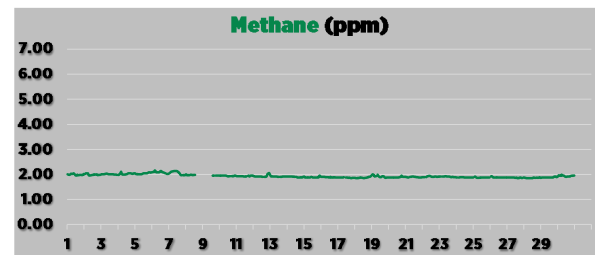
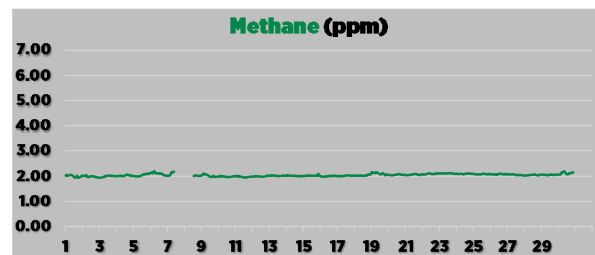
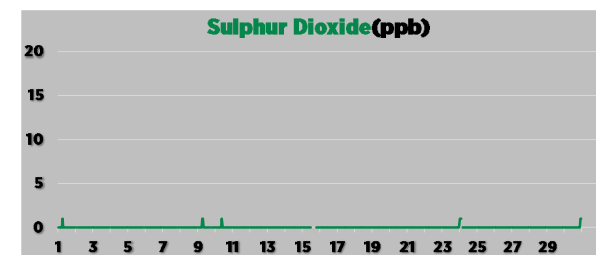
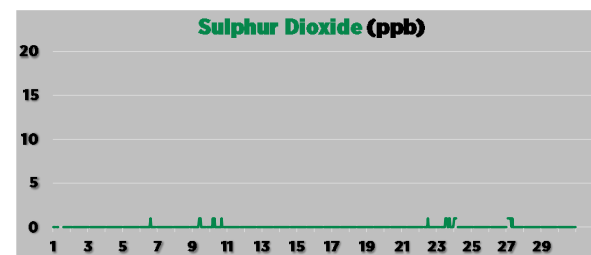
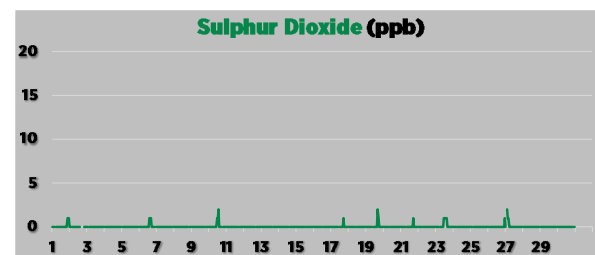
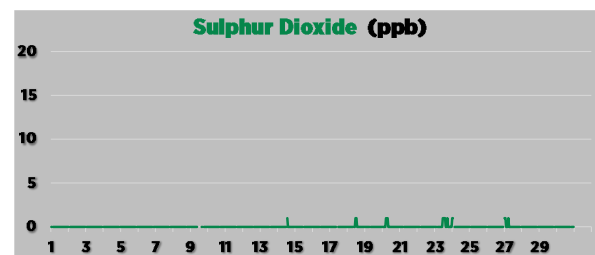
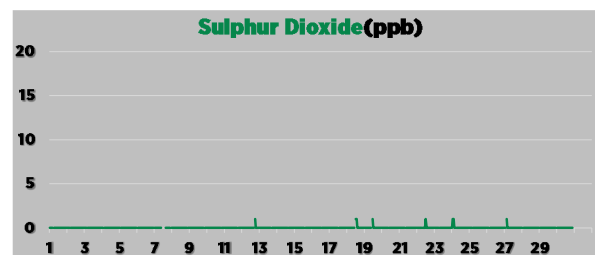
986-C Station

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

- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- THC/CH4/NMHC: On November 7, BV's Thermo 55i analyzer, s/n: 1022143392, was removed and replaced by PRAMP's Thermo 55i analyzer, s/n: 12208316589. The newly installed analyzer was allowed time to stabilize overnight. A successful installation calibration was complete don November 8. Twenty-one hours of downtime were recorded due to this event.

842-B Station

- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- THC/CH4/NMHC: On November 8, BV's Thermo 55i analyzer, s/n: 1314057759, was removed and replaced by PRAMP's Thermo 55i analyzer, s/n: 1501663728. The newly installed analyzer was allowed time to stabilize overnight. A successful installation calibration was complete don November 9. Nineteen hours of downtime were recorded due to this event.

Reno-B Station

- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.

PRC Station

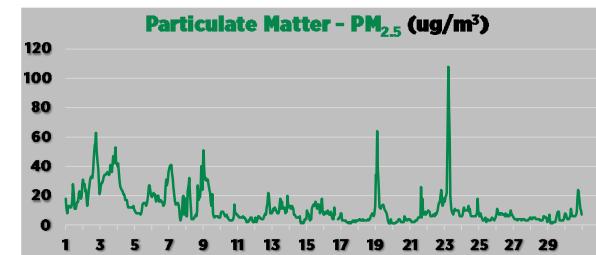
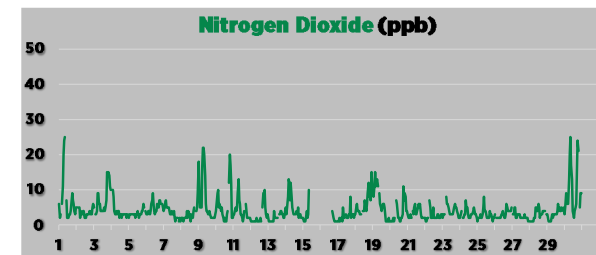
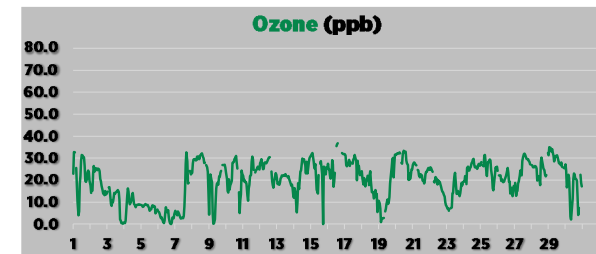
- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- TRS: The analyzer failed due to a failed converter on October 26. The CNRL's CD Nova CDN-101 convertor, s/n: 506, was replaced with BV's CD Nova CDN-101 convertor, s/n: 516, on October 31. Maintenance was completed on November 1. A successful post-repair calibration was completed on November 2. Thirty-four of downtime were recorded due to this event.

AQHI Station - Grimshaw

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable, except PM_{2.5}. Three exceedances were recorded: two 24-hour PM_{2.5} exceedances on November 2 and November 3, with concentrations of 33 ug/m³ and 37 ug/m³, respectively, and one 1-hour PM_{2.5} exceedance on November 23 at 05:00, with a concentration of 108 ug/m³. The recorded exceedances were believed to be the result of local buildup of particulate matter emissions.

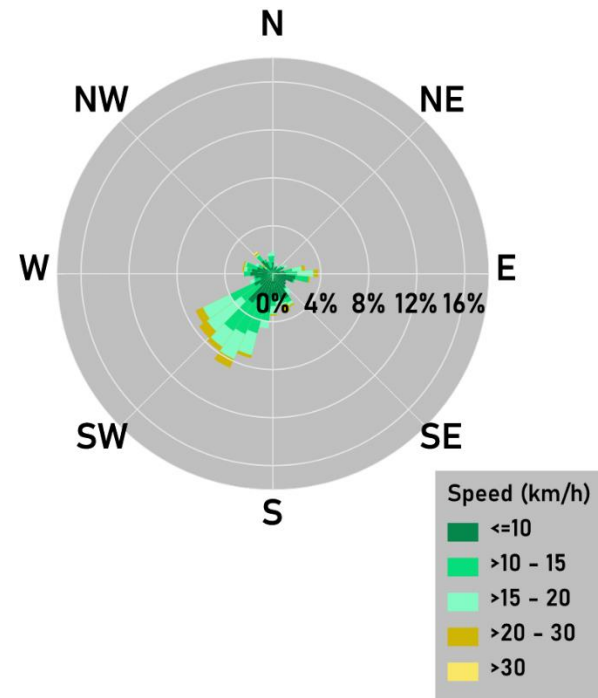
NMHC Canister Sampling Program

- There were no canister events recorded this month. The canister system was triggered at the Reno-B station on November 30 at 06:40 due to an analyzer/carrier gas issue. The event is not valid.

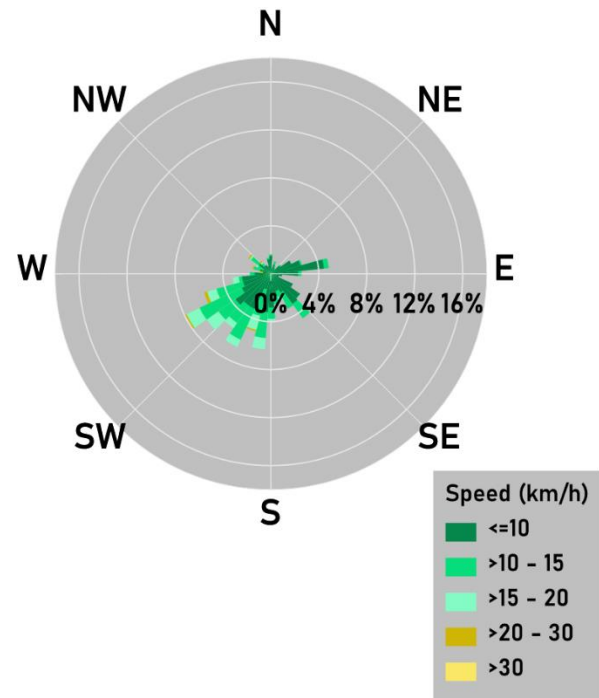


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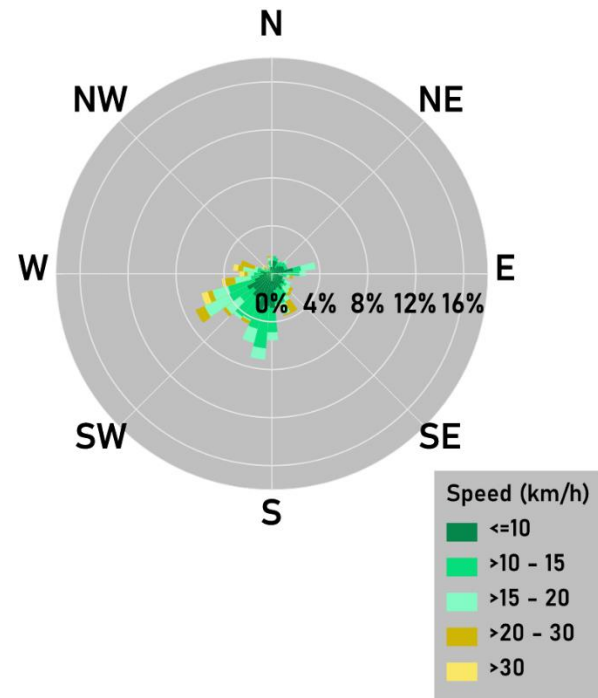
986-C Station



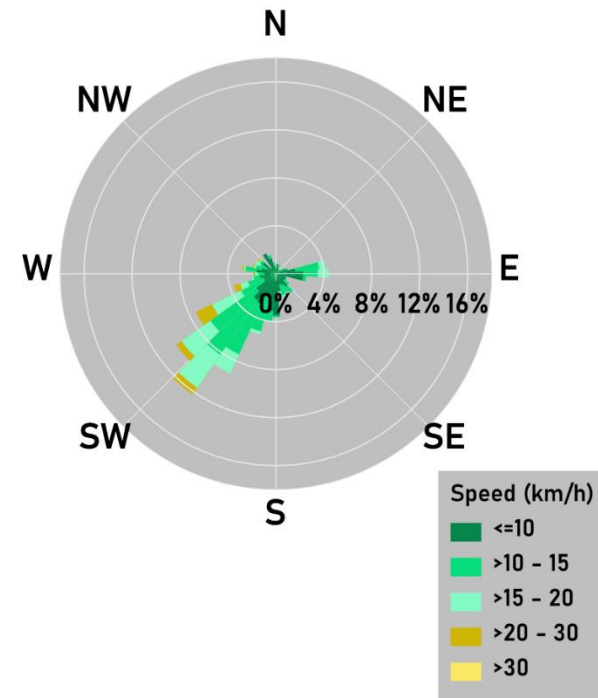
842-B Station



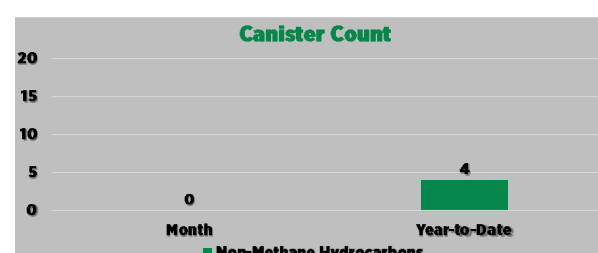
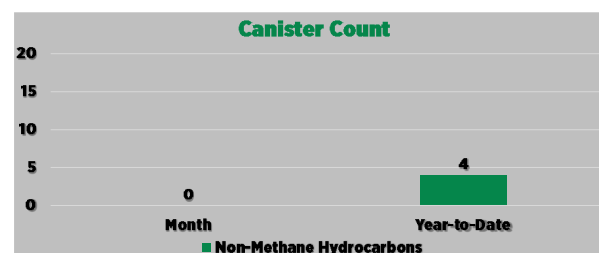
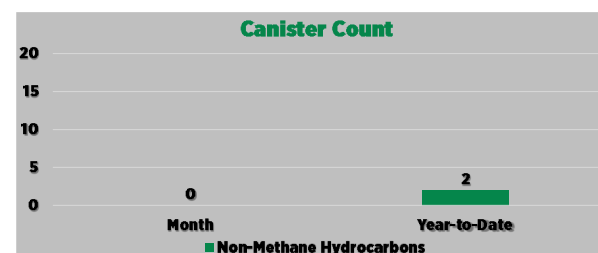
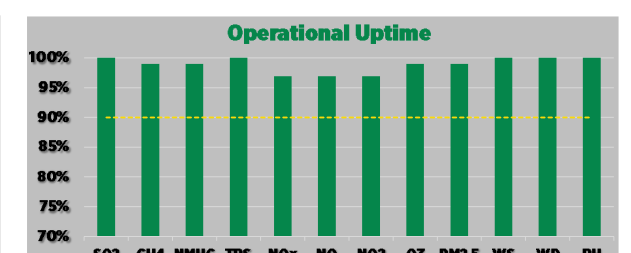
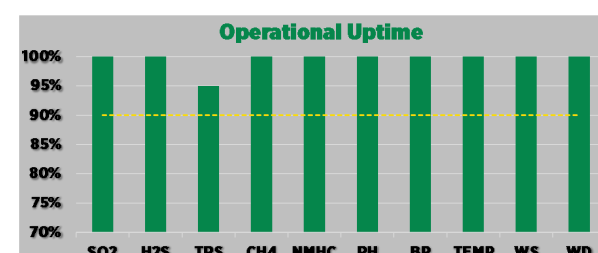
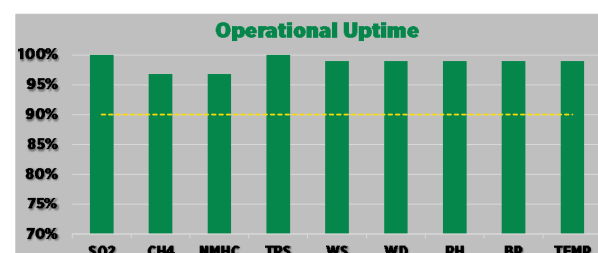
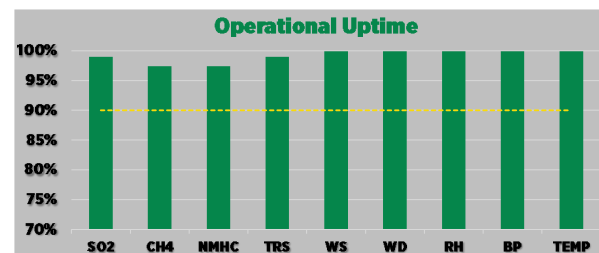
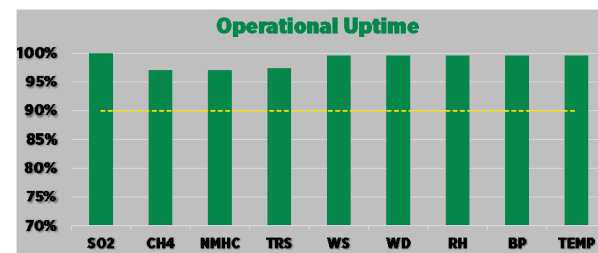
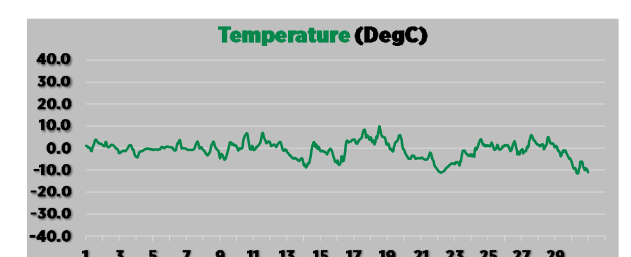
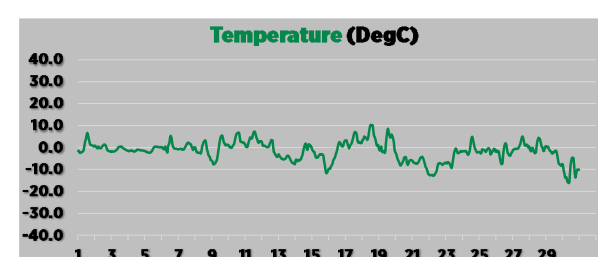
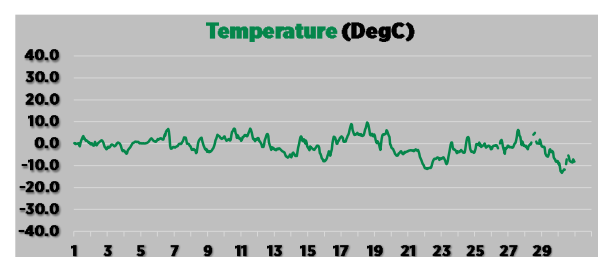
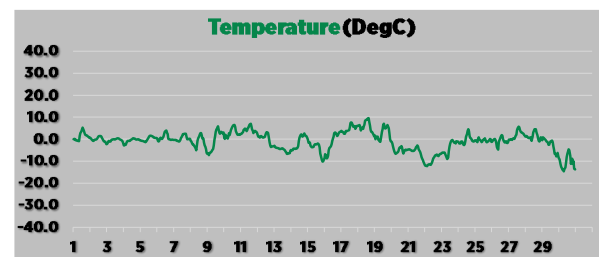
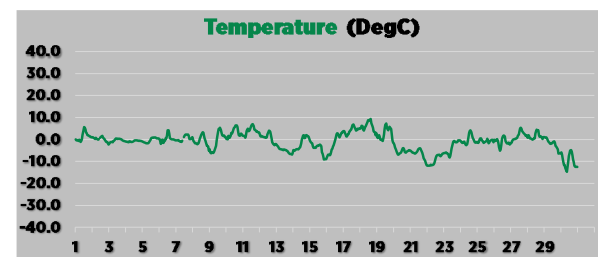
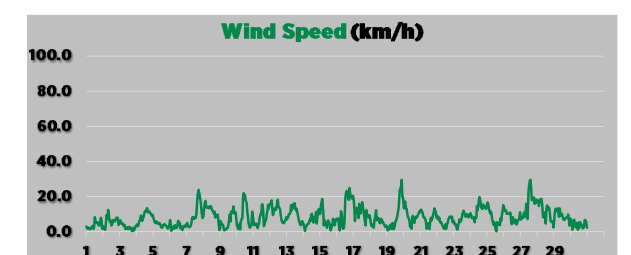
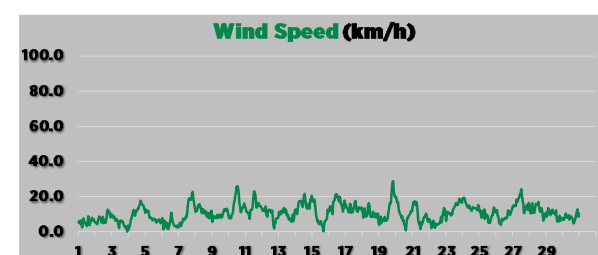
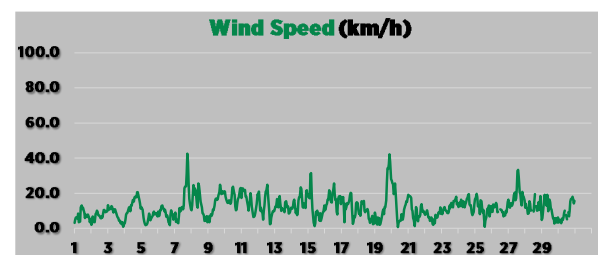
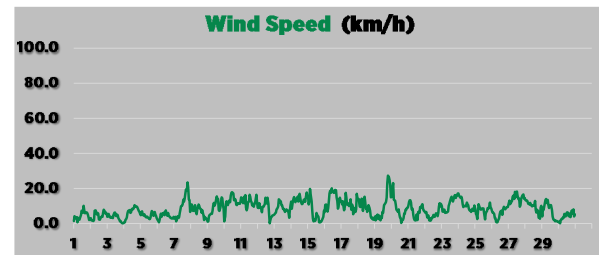
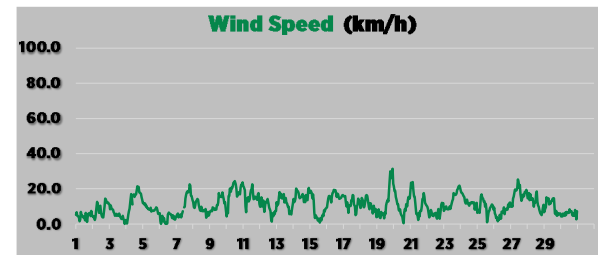
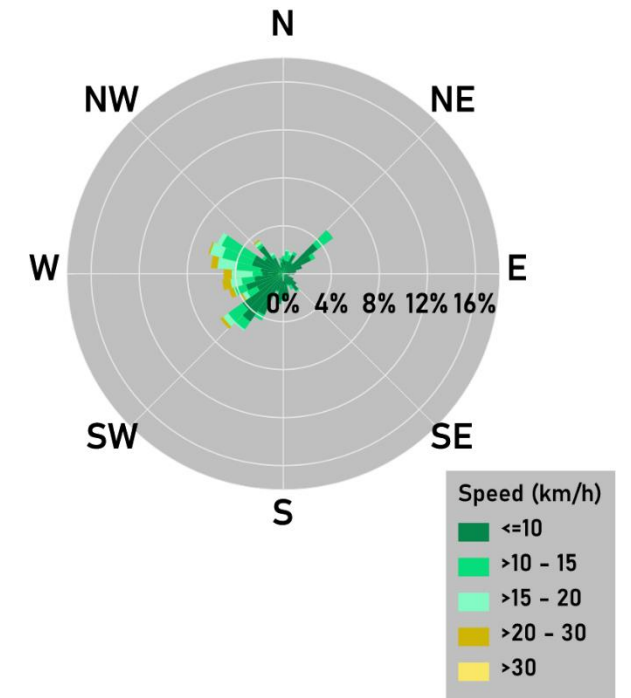
Reno-B Station



PRC Station



AQHI Station - Grimshaw



Targets, Guidelines, and Objectives

- Sulphur Dioxide 1h AAAQO = 172 ppb
- Ozone 1h AAAQO = 76 ppb
- Particulate Matter (PM_{2.5}) 1h AAAQO = 80 ug/m³
- 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

