

October 2022: Active Monitoring Program

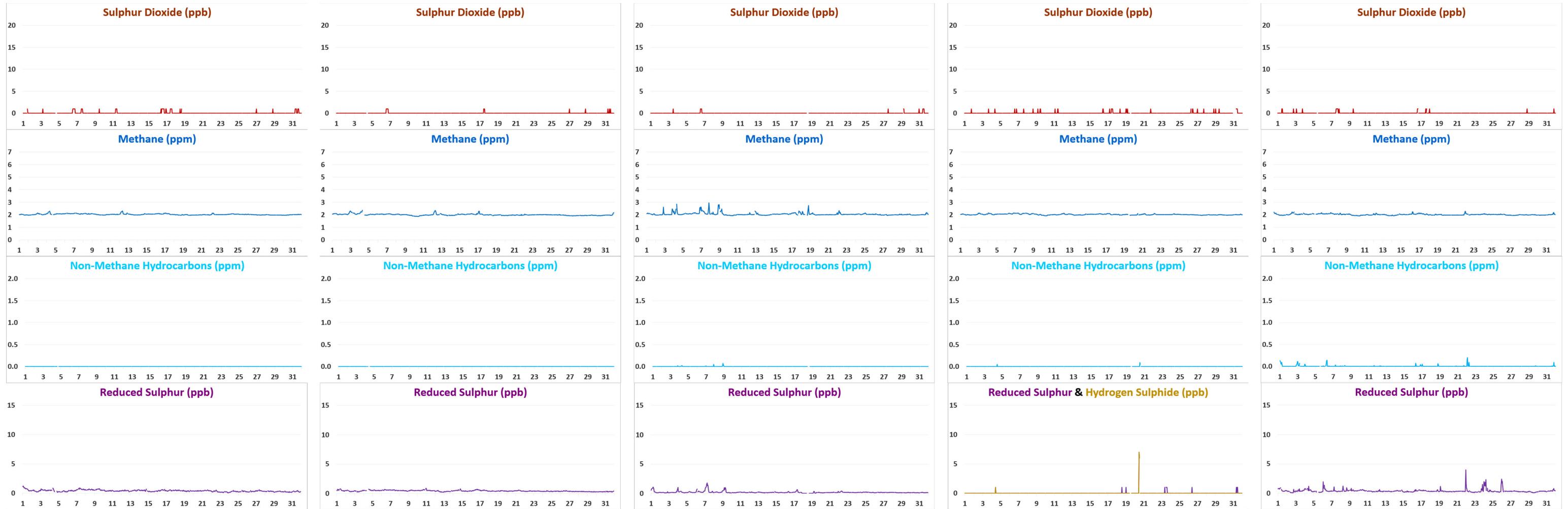
Station 986-C

Station 842-B

Reno Station

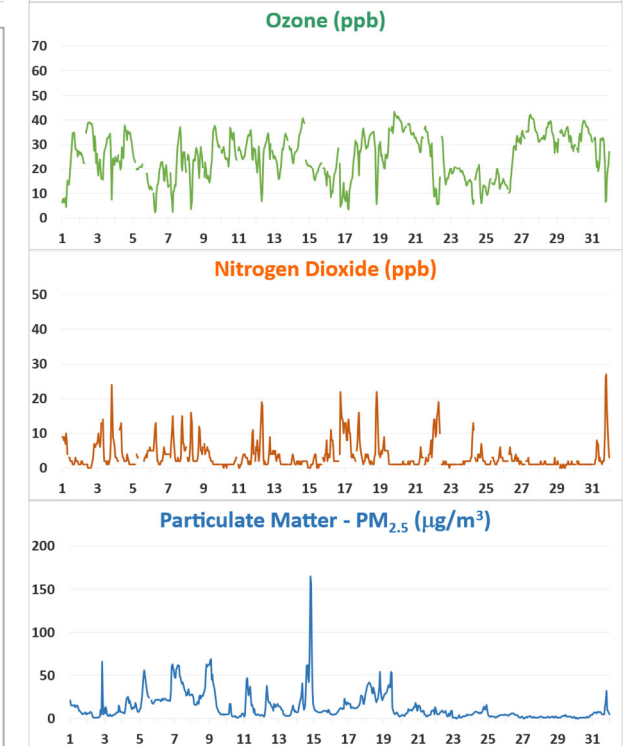
PRC Station

AQHI Station – Grimshaw



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

- 986c 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.
- 842b 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.
- Reno 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.
 - BP:** The sensor failed on October 10 hour 13 due to an output error. The sensor was reset on October 13 hour 7. Data collected between October 10 and October 13 were invalidated. Sixty-seven hours of downtime were recorded.
- 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.
 - SO₂:** The analyzer failed due to low sample flow rate on October 30 hour 22. The issue was fixed, and a zero-span check was completed on October 31. Night hours of downtime were recorded due to this issue.
- AQHI Station – Grimshaw**
- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAGs) where applicable, except PM_{2.5}. 3 1-hour and 4 24-hour PM_{2.5} exceedances were recorded and were caused by wildfires.
- NMHCs Canister Sampling Program**
- One NMHC canister events were recorded at the Reno station; on October 8 at 21:55, at concentration of 0.44ppm.



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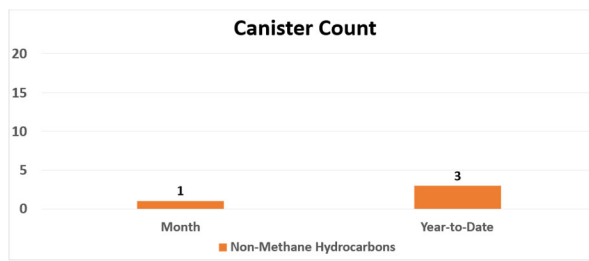
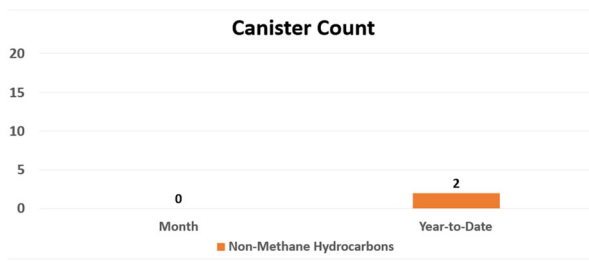
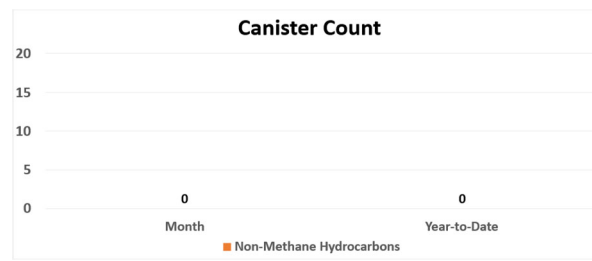
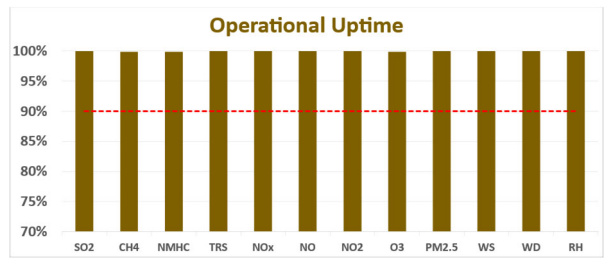
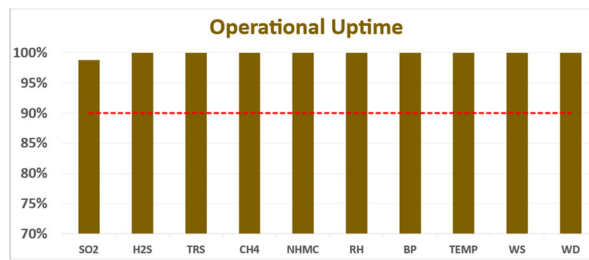
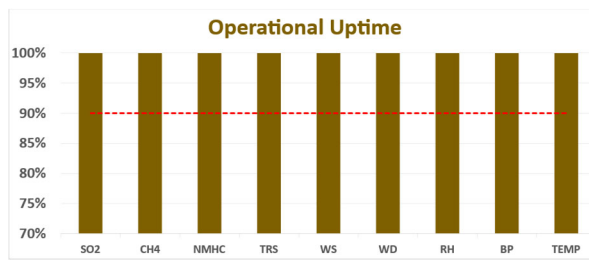
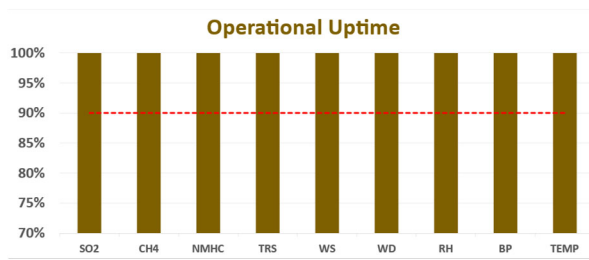
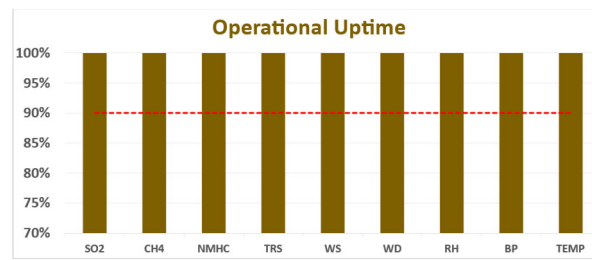
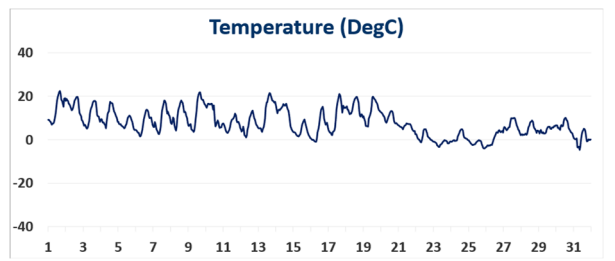
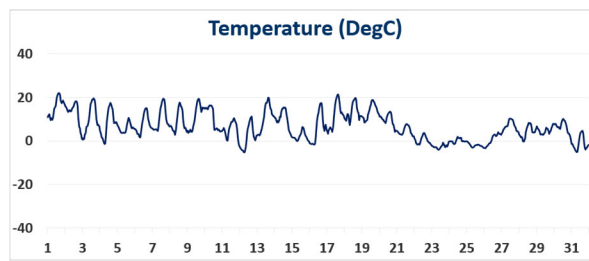
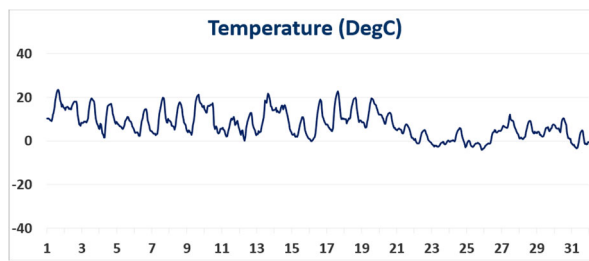
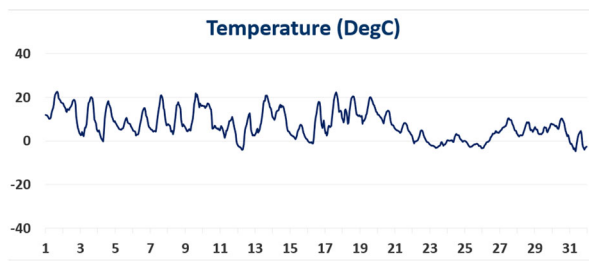
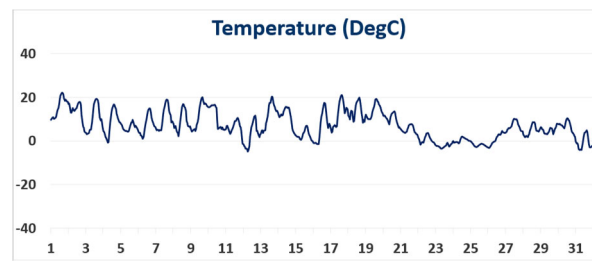
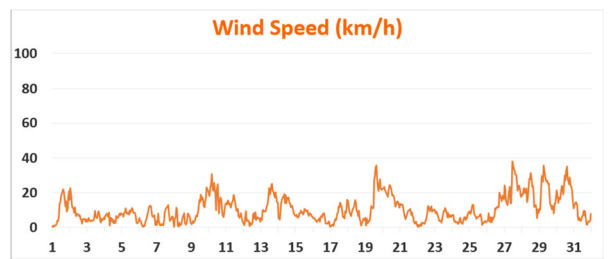
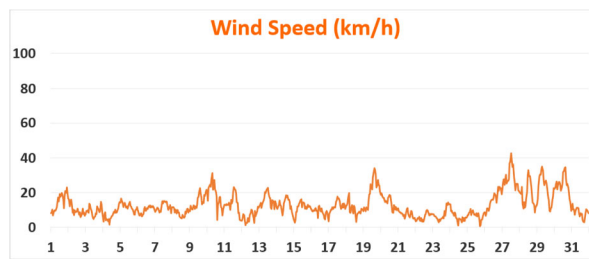
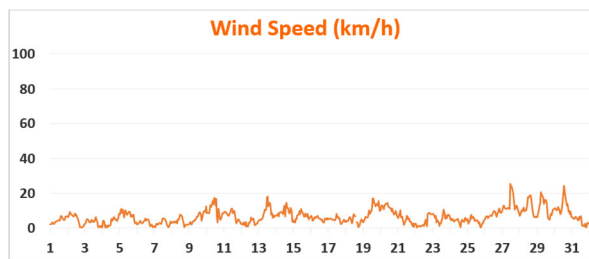
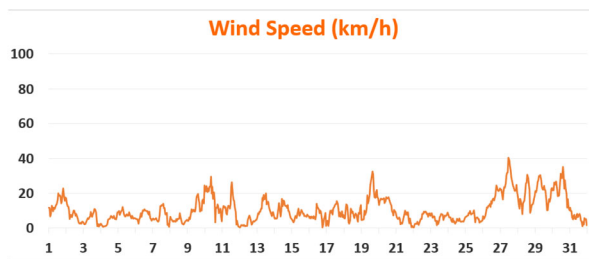
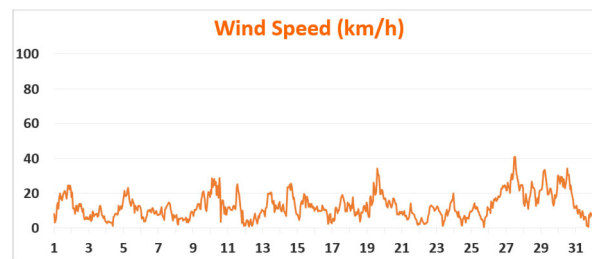
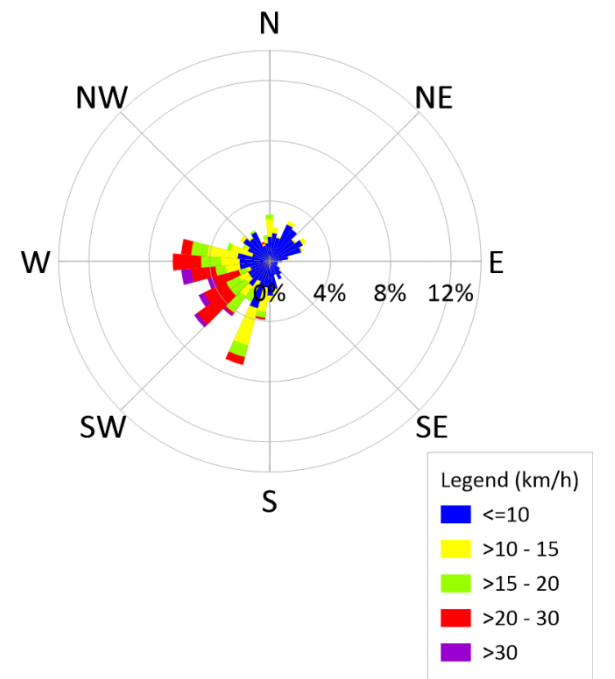
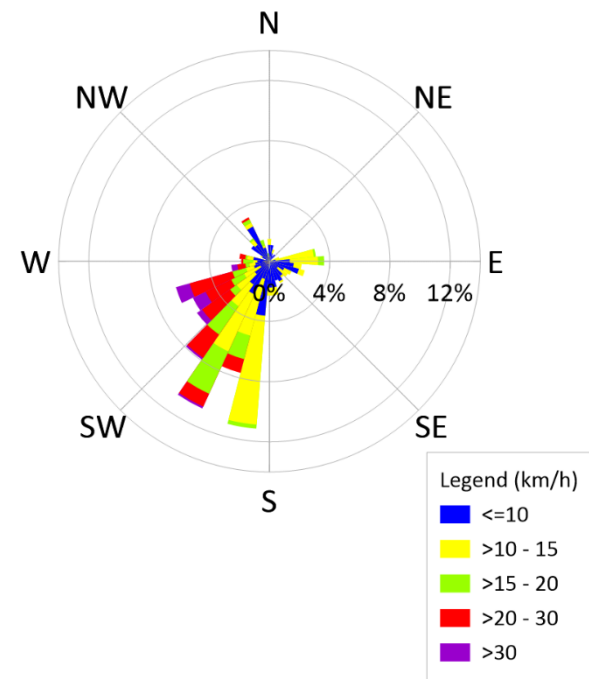
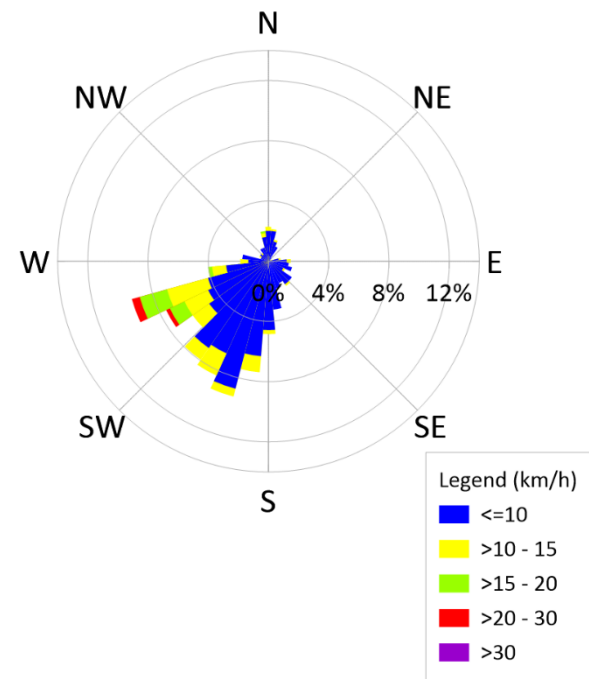
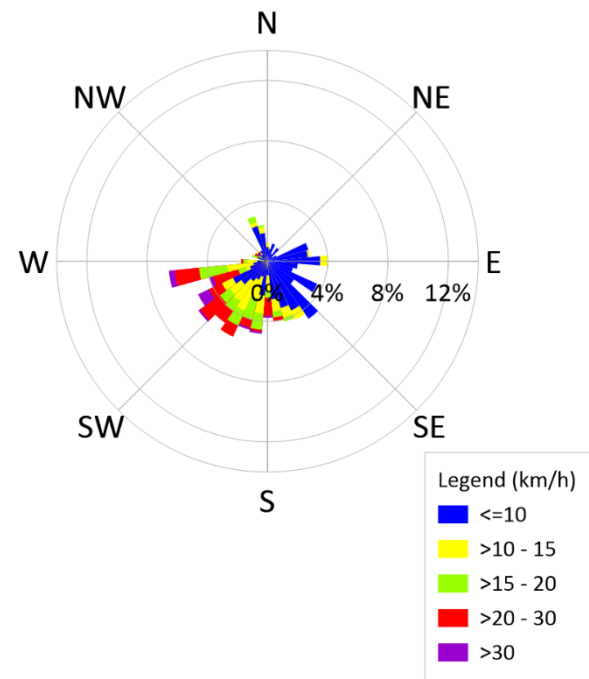
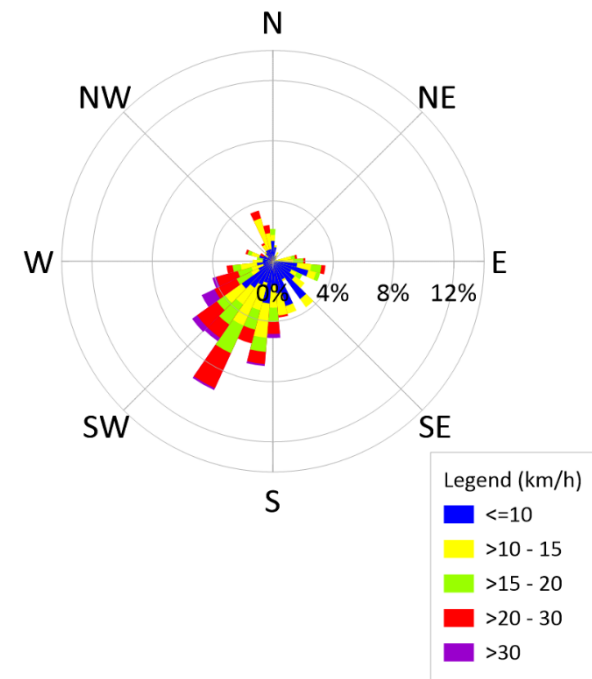
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Station 842-B

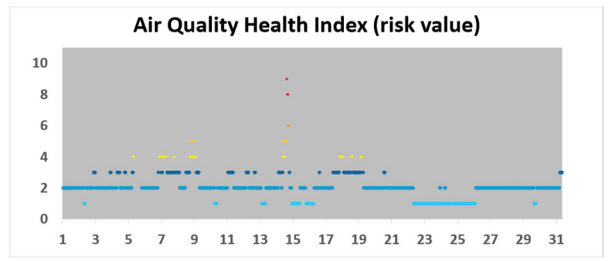
Reno Station

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 µg/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



1 2 3 4 5 6 7 8 9 10+
 LOW RISK MODERATE RISK HIGH RISK VERY HIGH RISK