

June 2023: Active Monitoring Program

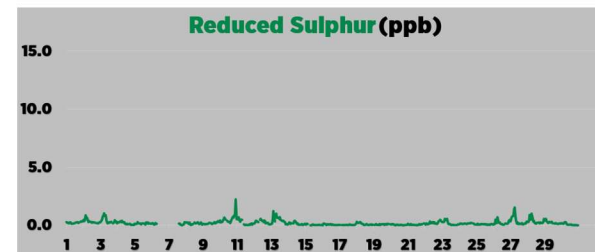
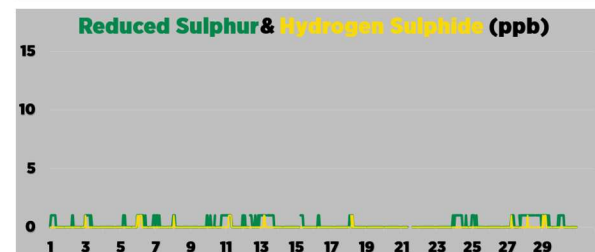
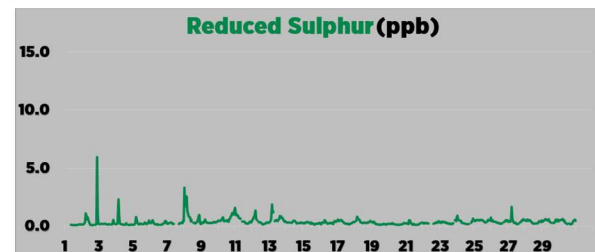
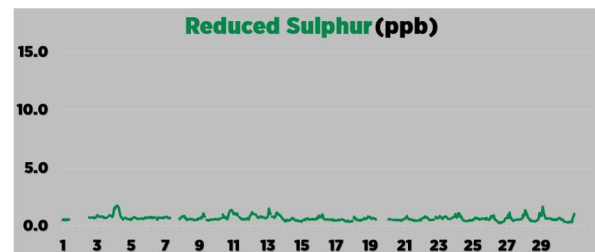
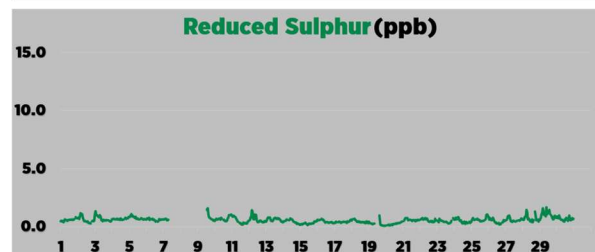
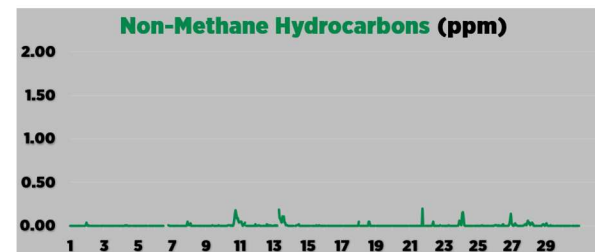
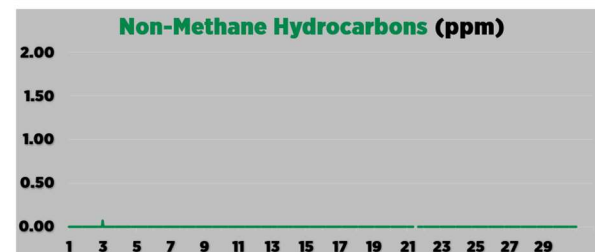
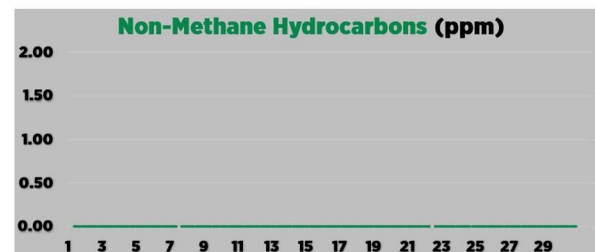
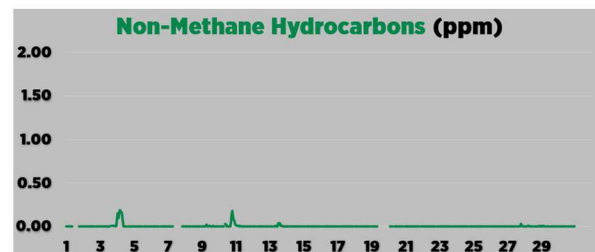
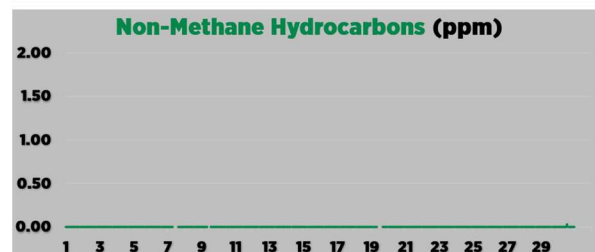
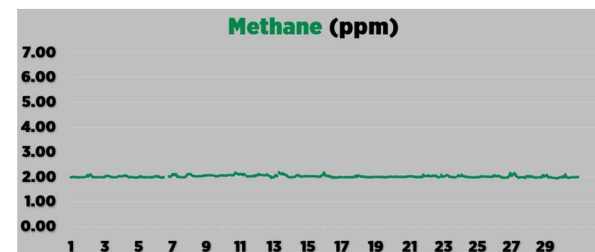
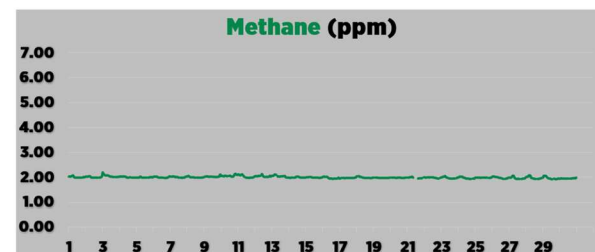
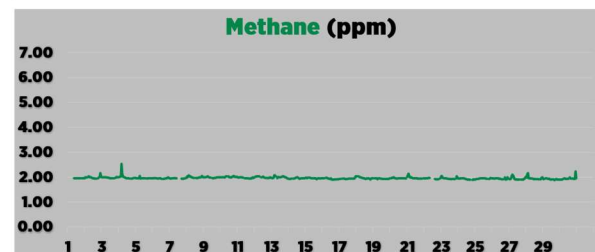
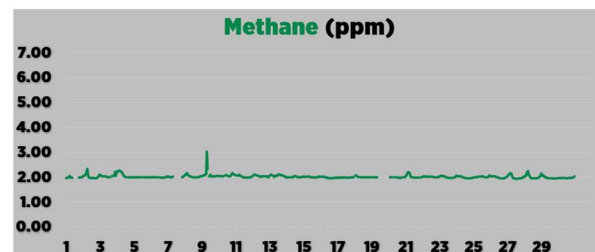
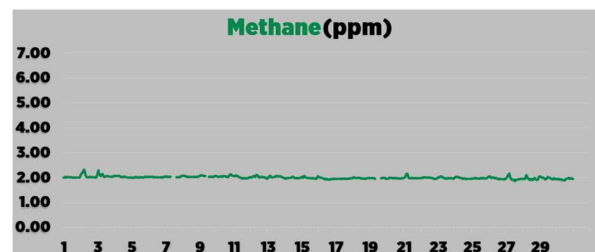
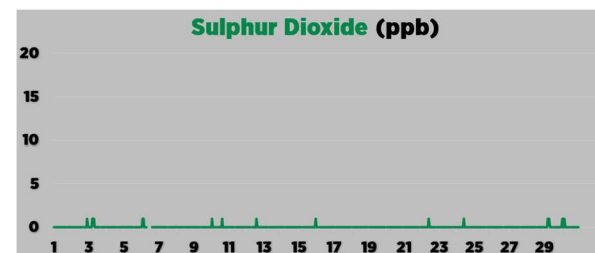
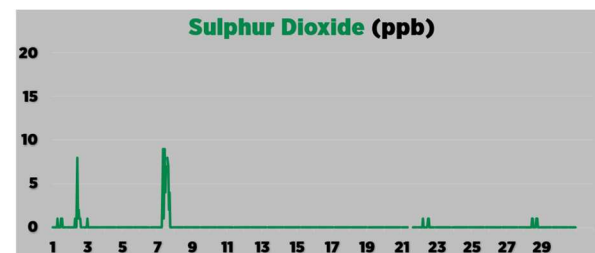
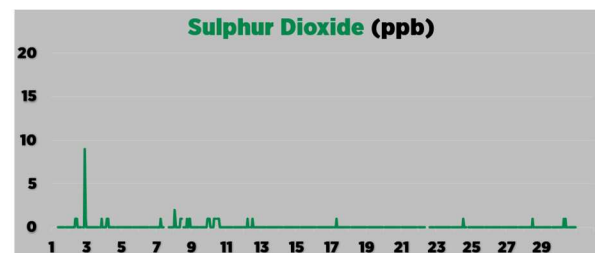
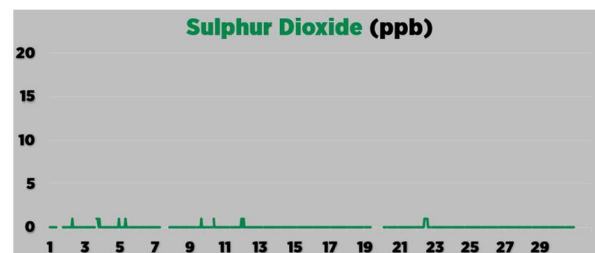
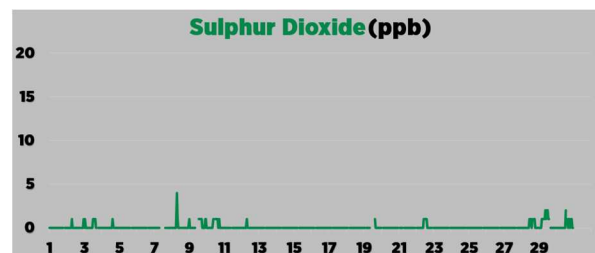
986-C Station

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. *TRS:* The TRS convertor failed to recover after June 7's power outage. On June 9, contractor supplied CD Nova CDNI01 convertor was removed and the PRAMP's CD Nova CDNI01 convertor was installed. Forty-five hours of downtime were recorded due to this event. *All parameters:* Eleven hours of downtime were recorded due to power outages on June 7 and June 19.

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. *All parameters:* Twenty-eight hours of downtime were recorded due to power outages on June 7, 19, and 20. *TRS:* A monthly calibration was attempted on June 1, but the calibration results were determined invalid due to a technician error. The calibration was repeated on June 2. Data collected between the two calibrations were considered invalid and were discarded. Twenty-two hours of downtime were recorded.

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. *All gas parameters:* Due to the failure of the Envidas poll manager program on June 7, the scheduled daily zero-span checks results were lost. The datalogger was remotely reset on June 7 hour 16. June 8's zero-span checks ran as scheduled. All analyzers passed the check requirements. *All parameters:* Due to datalogger errors, no data were collected from May 31 hour 14 to June 1 hour 8. The datalogger was remotely reset to correct the issue. Nine hours of downtime were recorded.

PRC Station

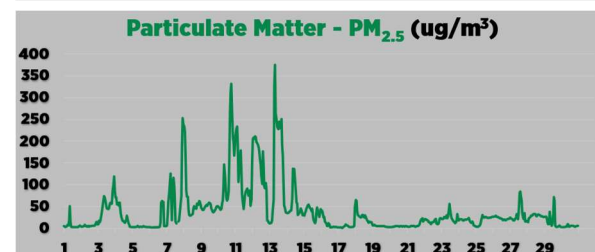
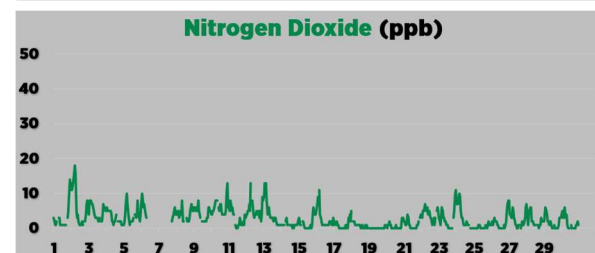
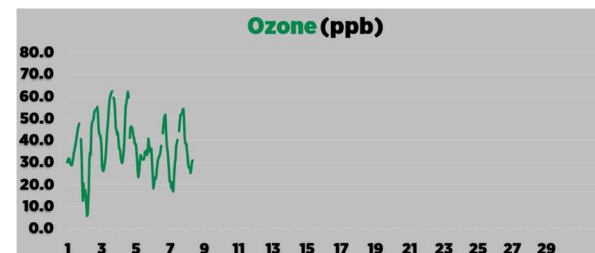
- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.

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}. Eighty-seven 1-hour PM_{2.5} exceedances and eleven 24-hour PM_{2.5} exceedances were recorded this month. *O3:* PRAMP's Teledyne T400 analyzer failed the shut-down calibration on July 12 due to unstable/noisy readings. The analyzer was removed, and the contractor supplied Teledyne API 400A analyzer was installed and calibrated. In the absence of a clear point of failure, data were discarded back to the last valid multi-point calibration check, which was June 8. Two hundred seventy-two hours of data collected in July and five hundred forty-two hours of data collected in June were discarded.

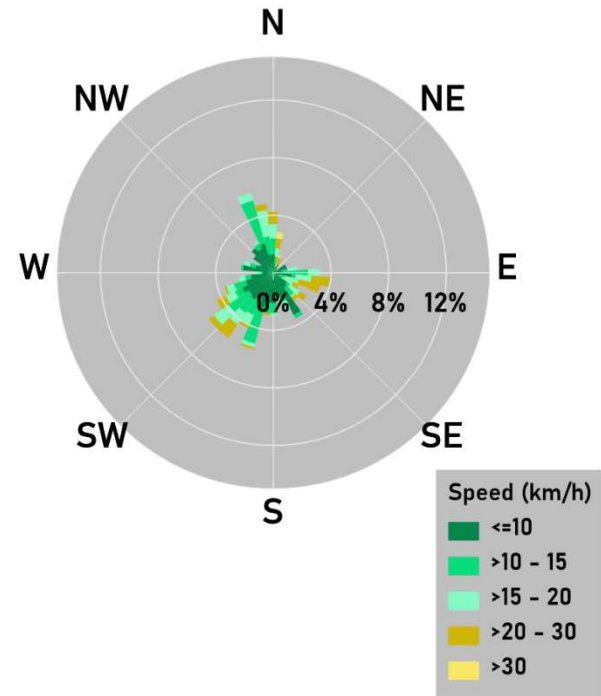
NMHCs Canister Sampling Program

- One canister event was recorded at the 986-C station at 13:45 on June 30, at concentration of 0.34ppm.

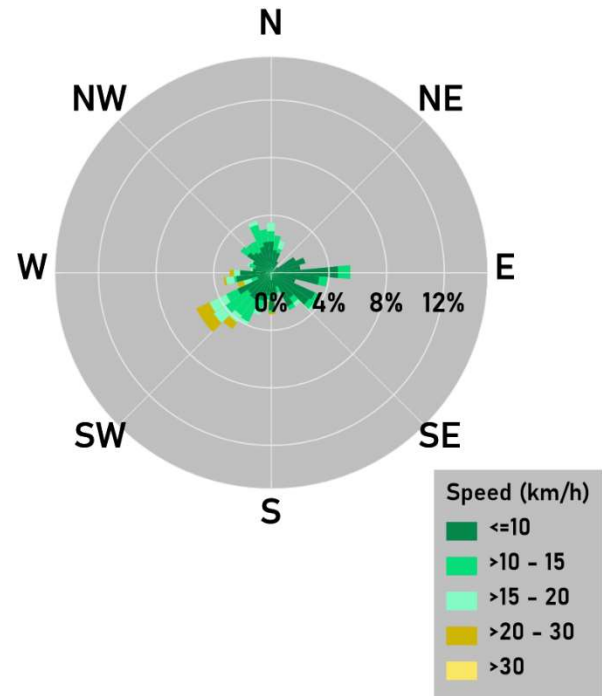


June 2023: Active Monitoring Program

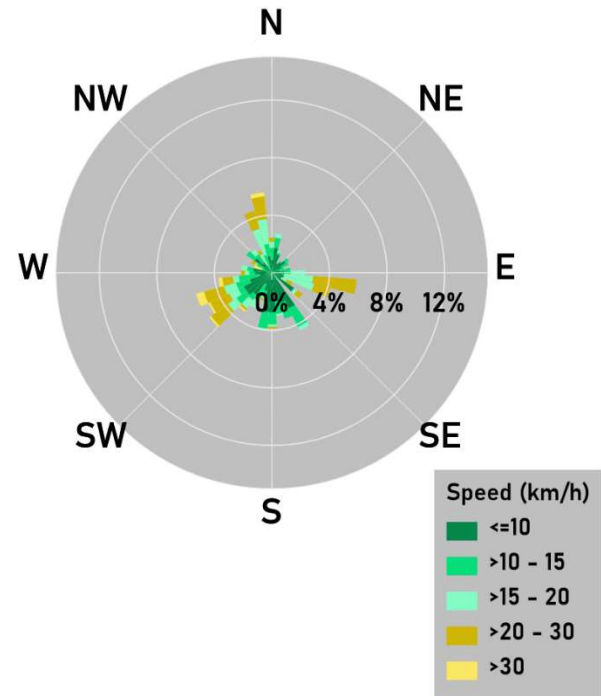
986-C Station



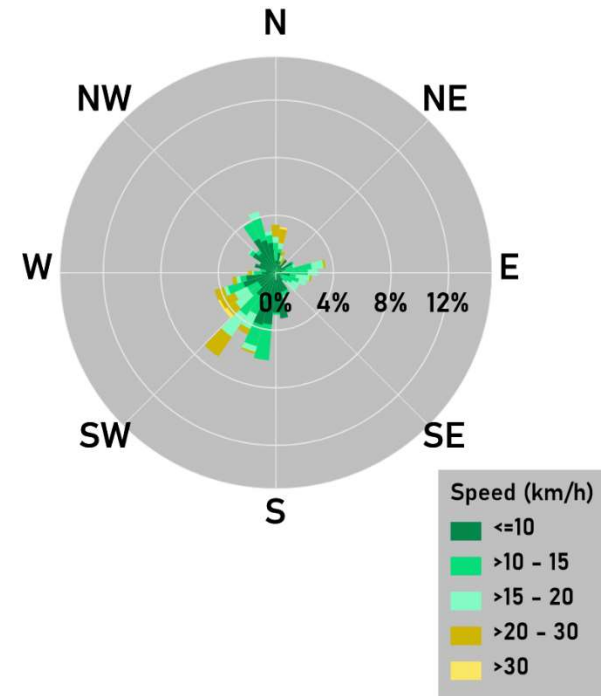
842-B Station



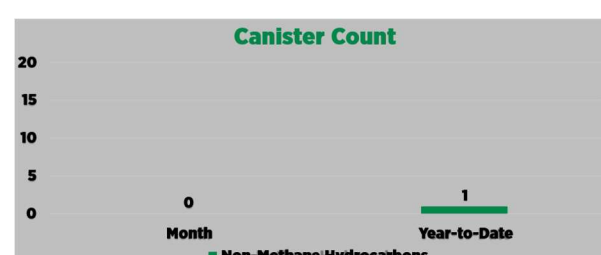
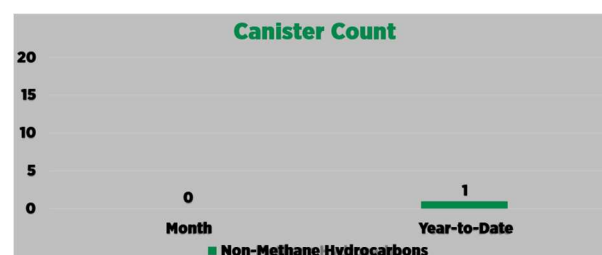
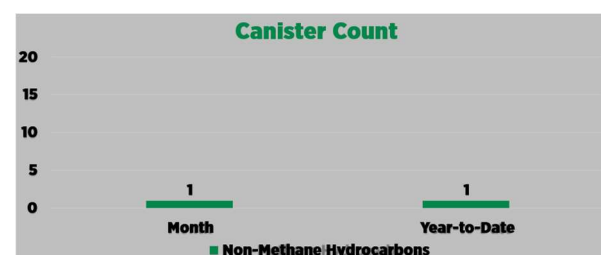
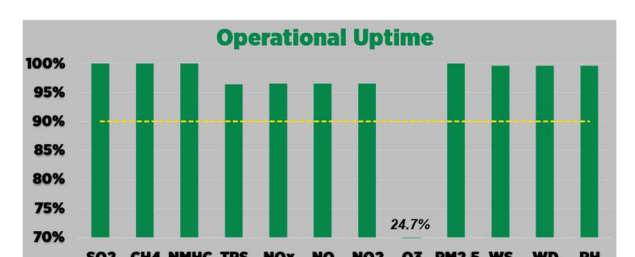
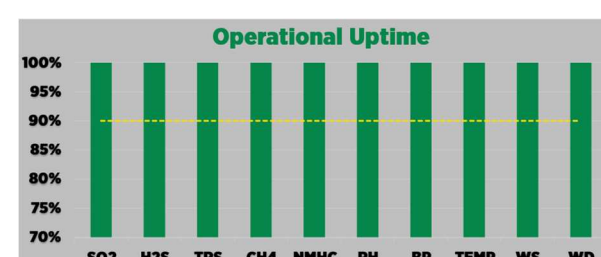
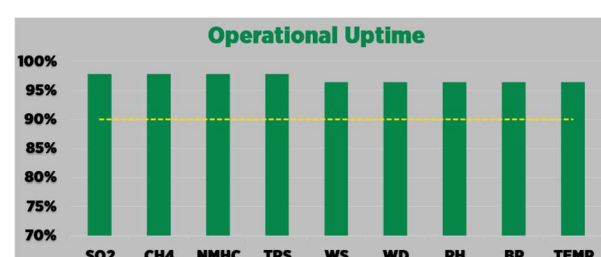
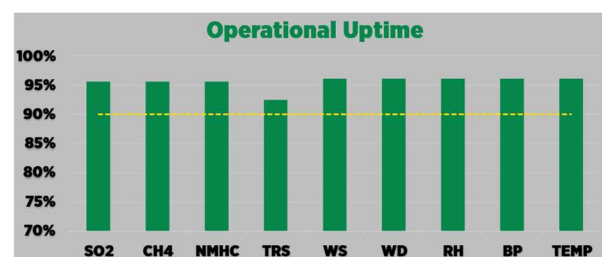
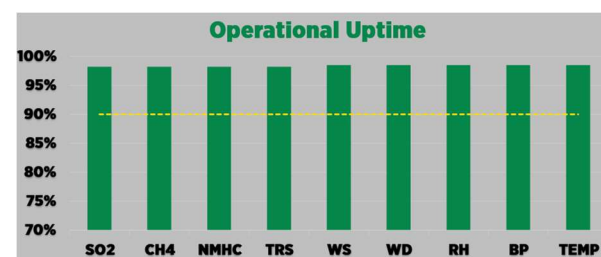
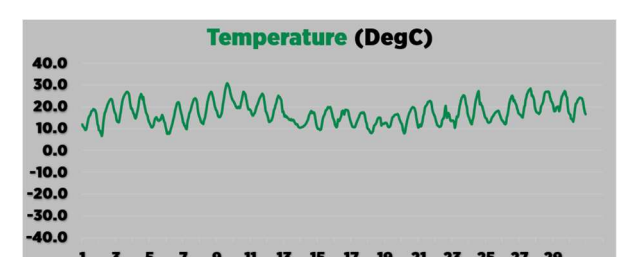
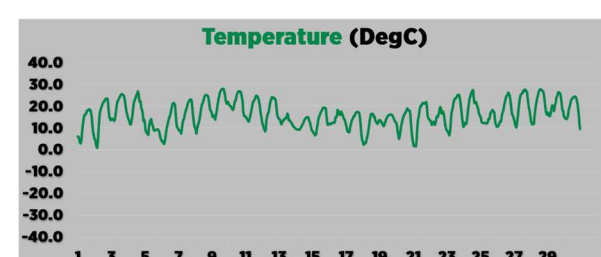
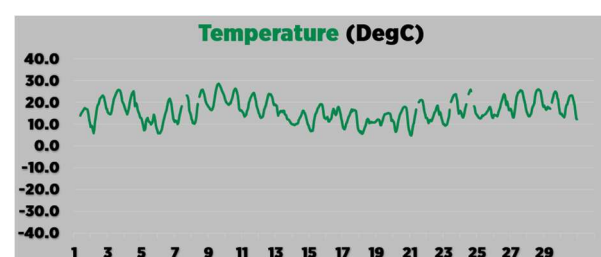
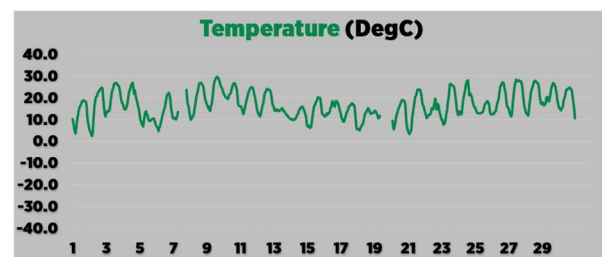
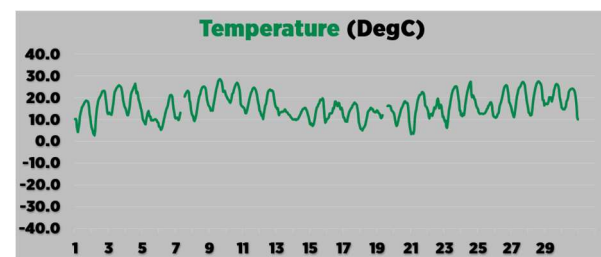
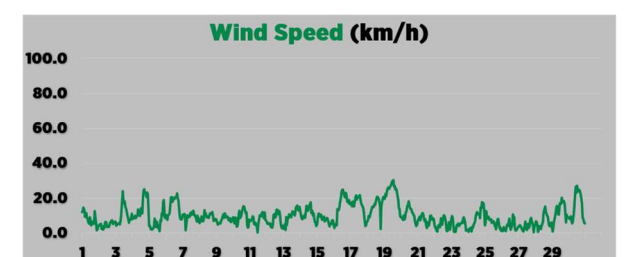
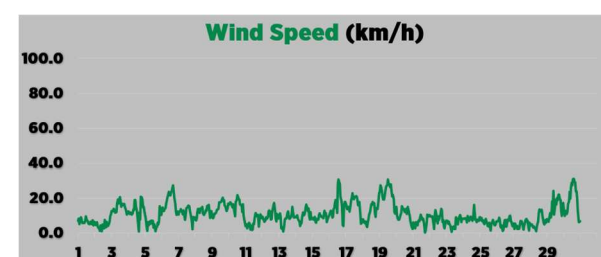
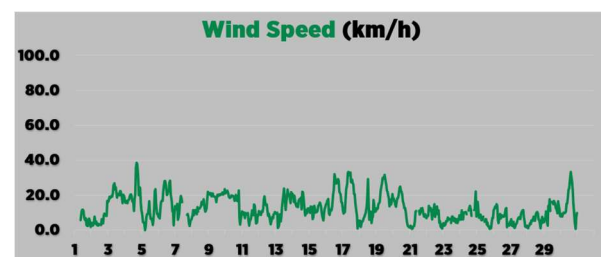
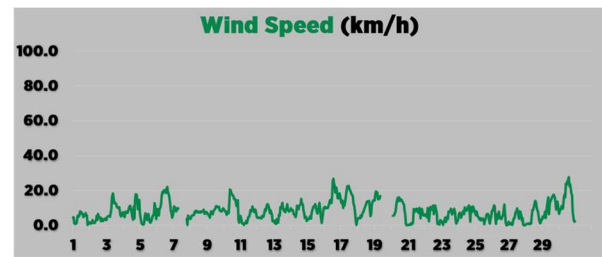
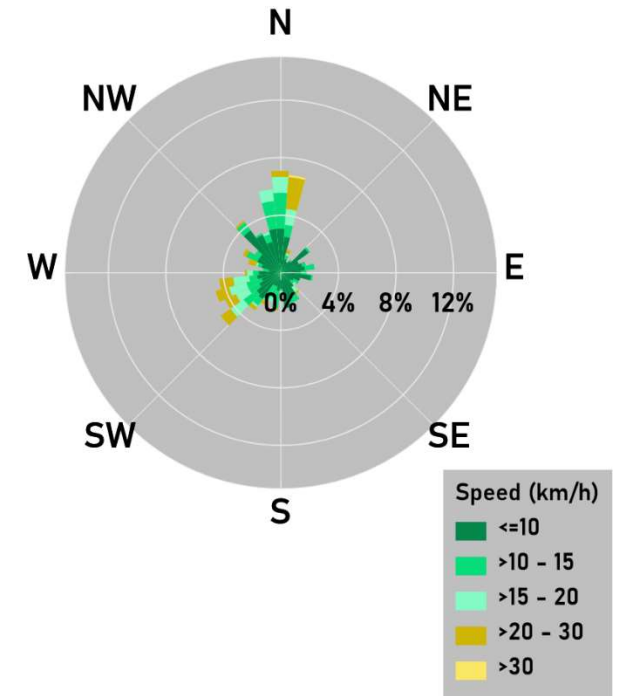
Reno-B Station



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

