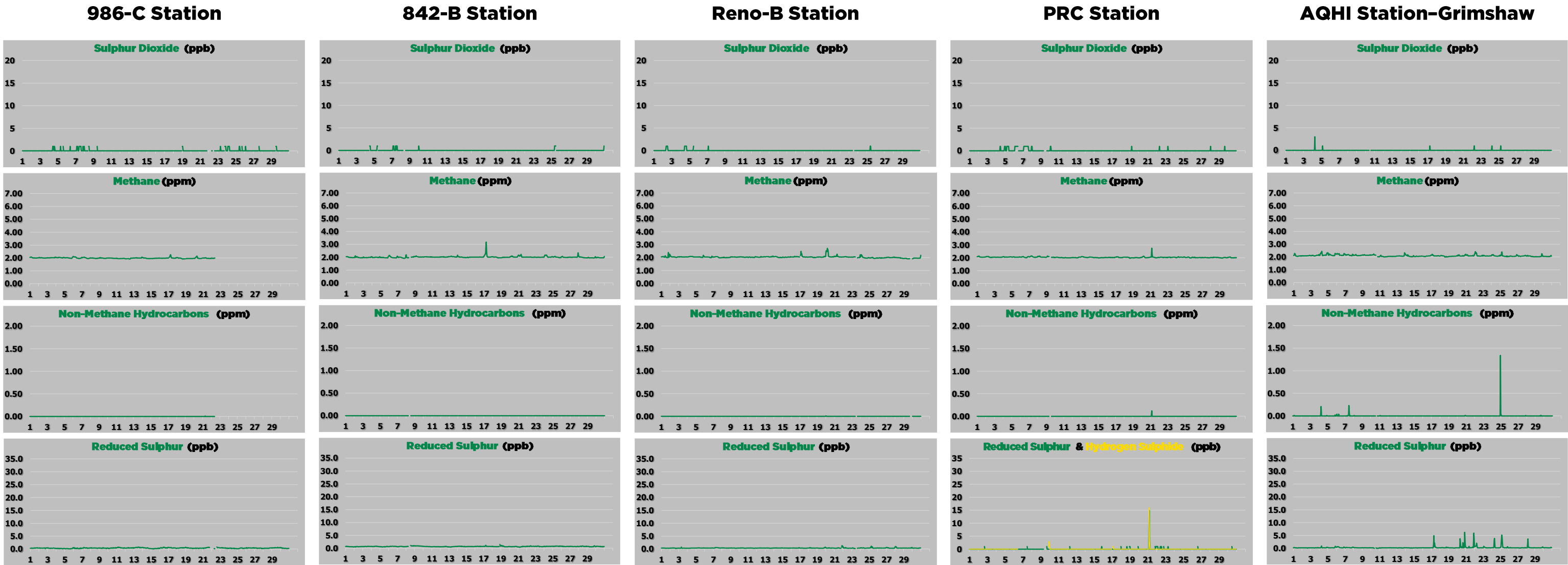
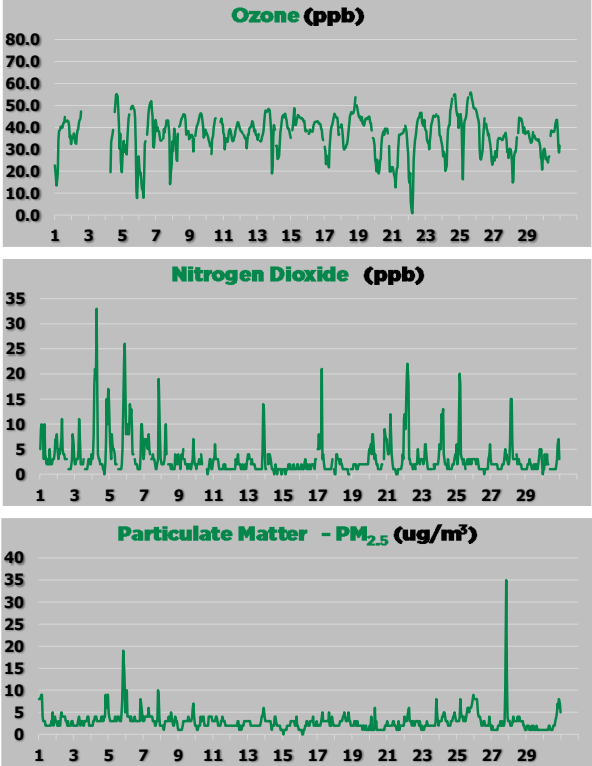


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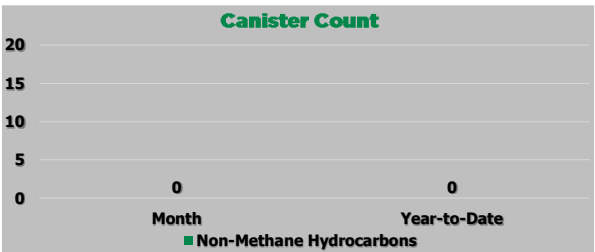
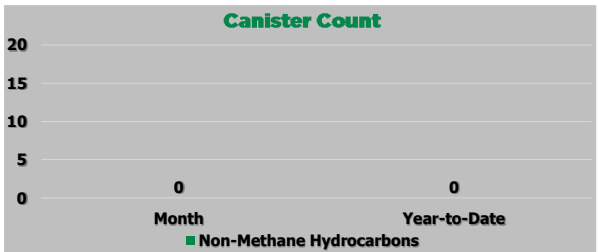
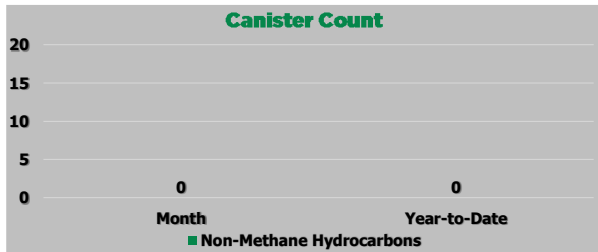
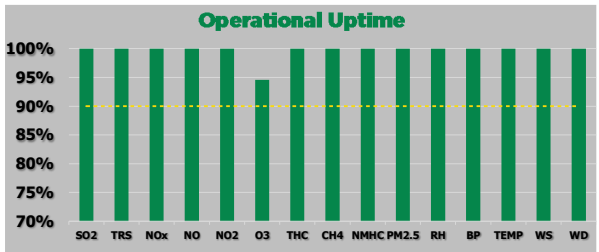
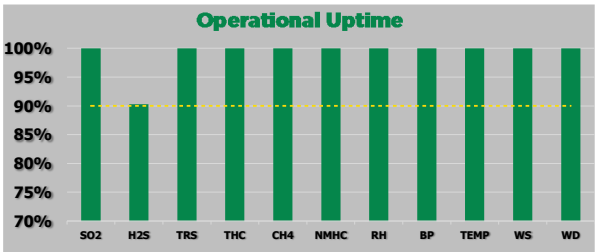
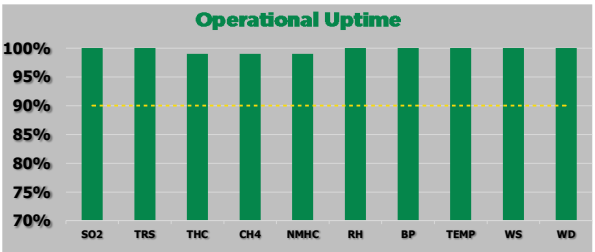
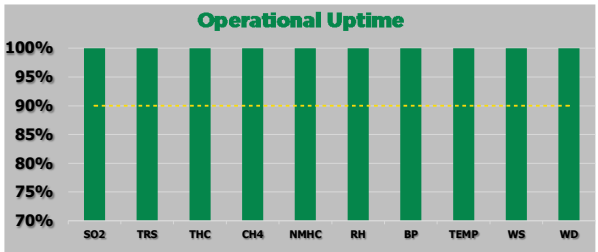
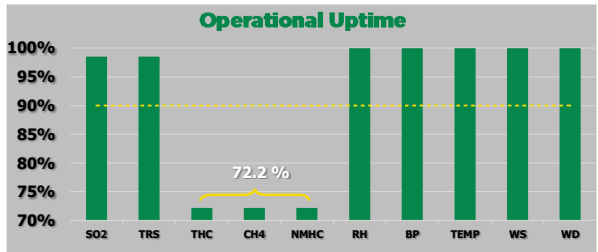
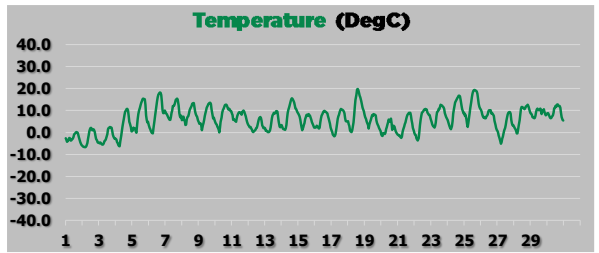
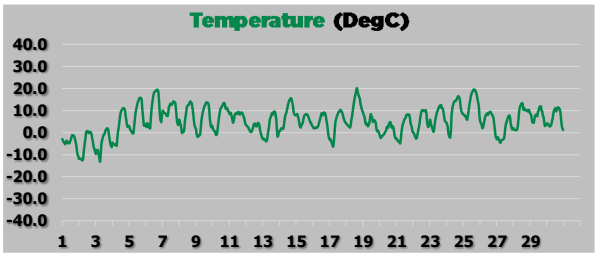
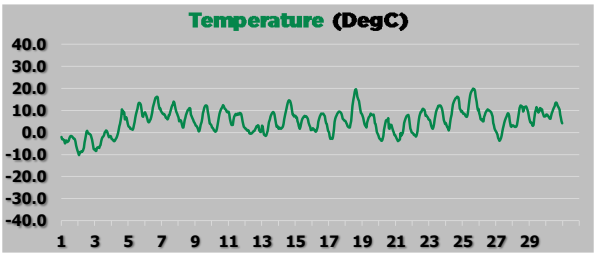
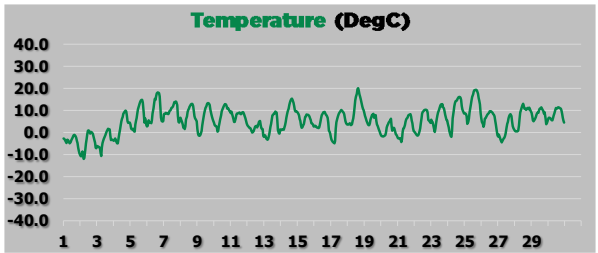
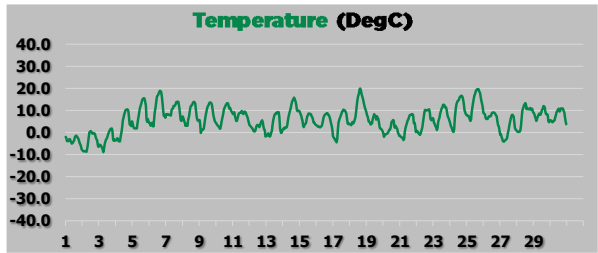
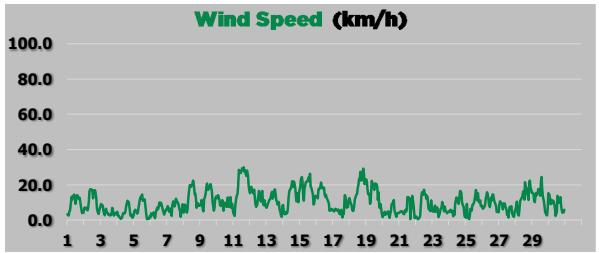
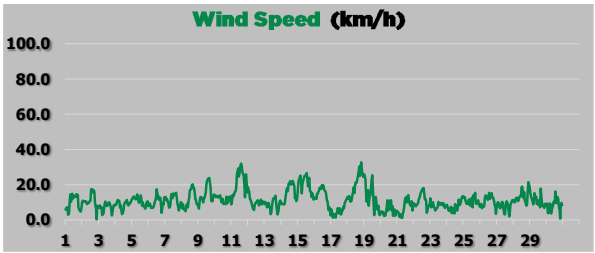
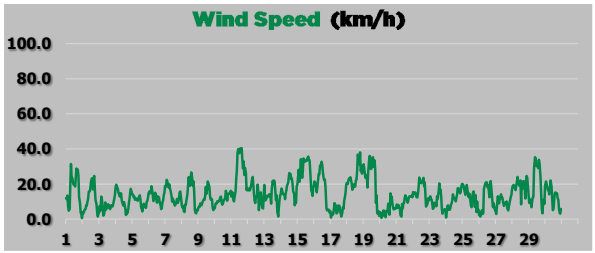
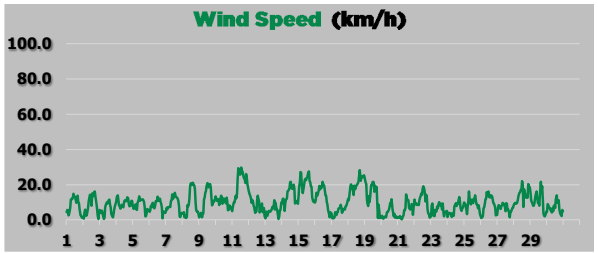
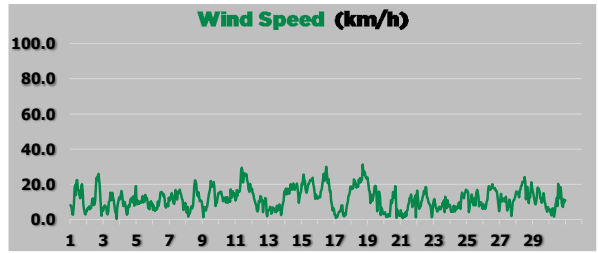
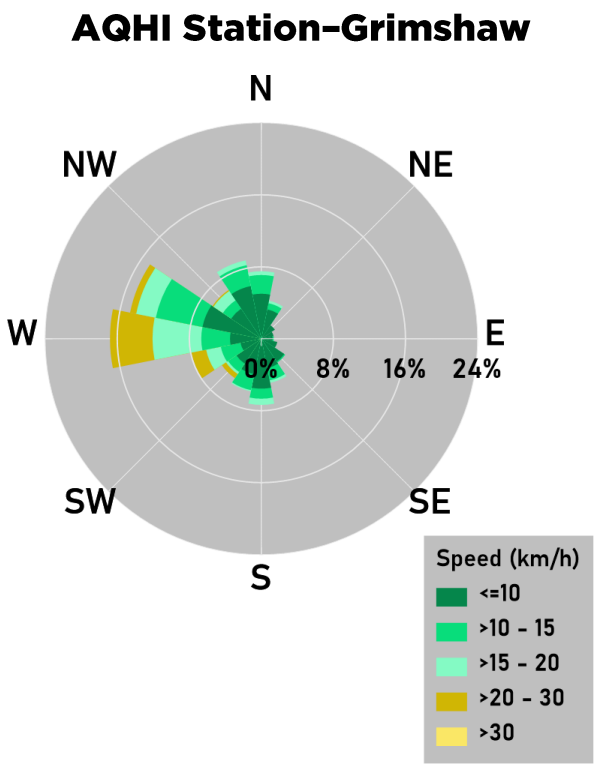
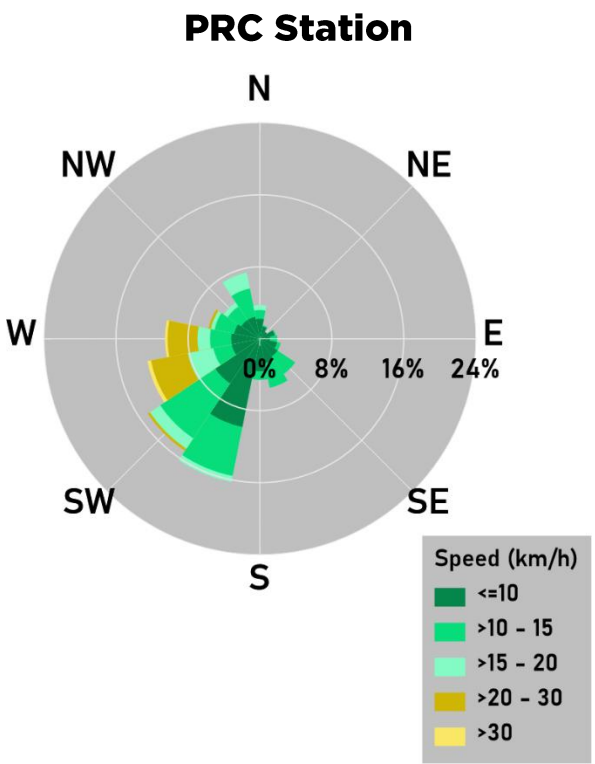
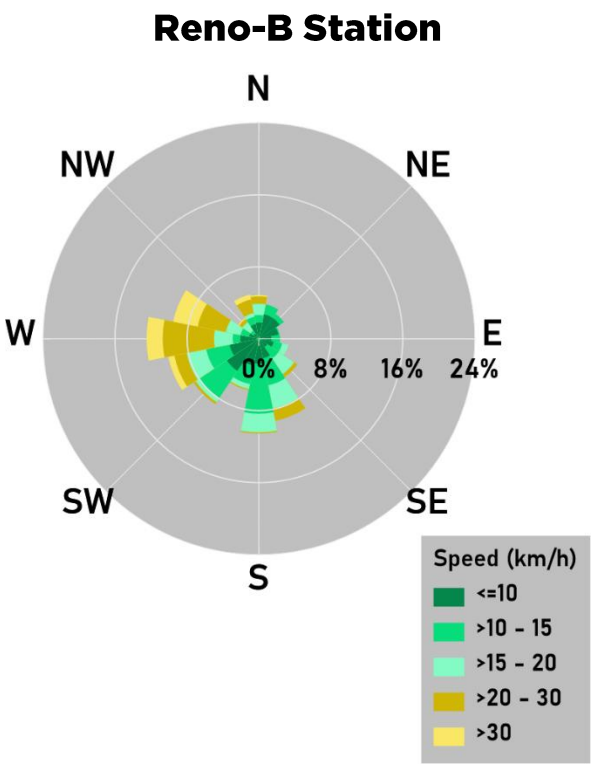
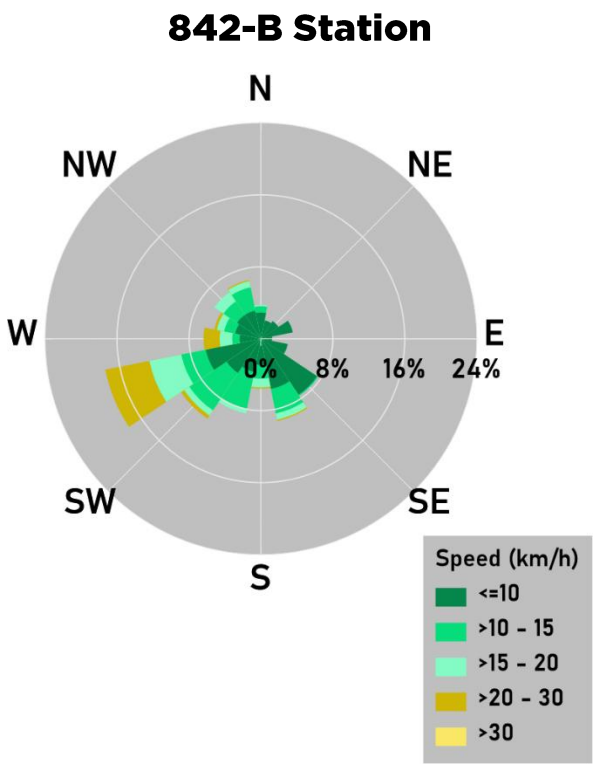
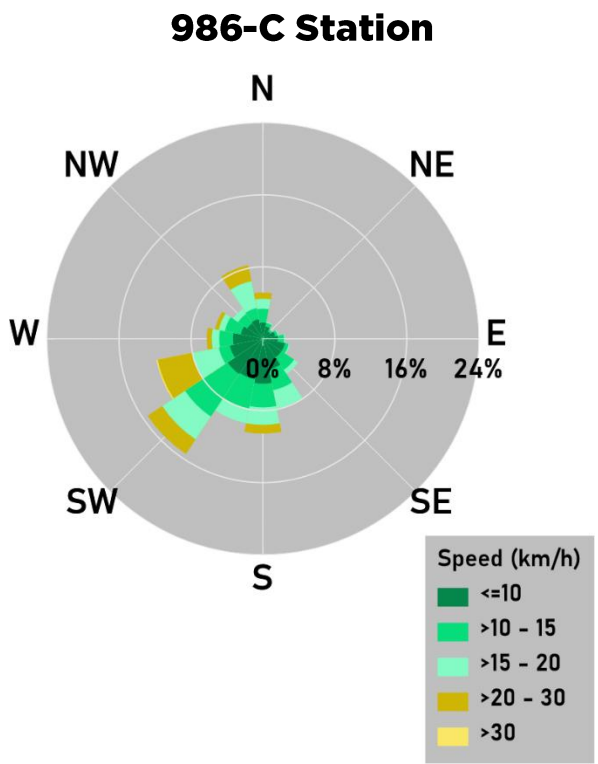


Field Operations Summary (detailed field operations notes can be found in the monthly technical reports on the [PRAMP website](#))

- 986-C Station**
 - THC/CH4/NMHC: NMHC noise was observed following the April 22 monthly calibration. The issue persisted until May monthly calibration, after which the noise was resolved. Data collected between the two calibrations were questionable and therefore discarded. Two hundred hours of downtime in April were recorded due to this event. Operational uptime was 72.2%. DINC#0016494.
- 842-B Station**
 - No major operational issues this month.
- Reno-B Station**
 - No major operational issues this month.
- PRC Station**
 - H2S: The analyzer failed April 7 and April 8 daily zero-span check and April 9's as-found points check. No obvious cause could be identified. The analyzer was calibrated on April 9 to correct the drift. Data were invalidated back to the last valid calibration check, which was April 7. Sixty-nine hours of downtime were recorded.
 - TRS: The analyzer failed the daily span check on April 6 and April 7 due to unstable permeation oven temperatures, which was caused by higher station temperatures. Data quality was not compromised by this issue since it only affected the daily zero-span check results. A successful monthly calibration was completed on April 9, which confirmed the analyzer's functionality. No data were discarded.
- AQHI Station – Grimshaw**
 - O3: The analyzer failed April 3's daily zero-span check on April 3, but it passed both the repeat and scheduled zero-span check on April 4. As the issue was self-corrected, root-cause could not be determined. Data were invalidated back to the last valid calibration check, which was April 2. Thirty-nine hours of downtime were recorded due to this event.
- NMHCs Canister Sampling Program**
 - No valid NMHC canister events were recorded this month
- Exceedances of AAAQOs and AAAQGs**
 - All measured parameters were below the Alberta Ambient Air Quality Objectives (AAAQOs) and/or Guidelines (AAAQGs), where applicable, except for hydrogen sulphide (H₂S) and total reduced sulphur (TRS) at the PRC station, and TRS at the AQHI-Grimshaw station. One 1-hour H₂S exceedance and two 30-minute TRS exceedances were recorded at PRC, while seven 30-minute TRS exceedances occurred at Grimshaw.



April 2025: Active Monitoring Program



Targets, Guidelines, and Objectives

Sulphur Dioxide 1h AAAQO = 172 ppb
Ozone 1h AAAQO = 76 ppb
Particulate Matter (PM_{2.5}) 1h AAAQG = 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

