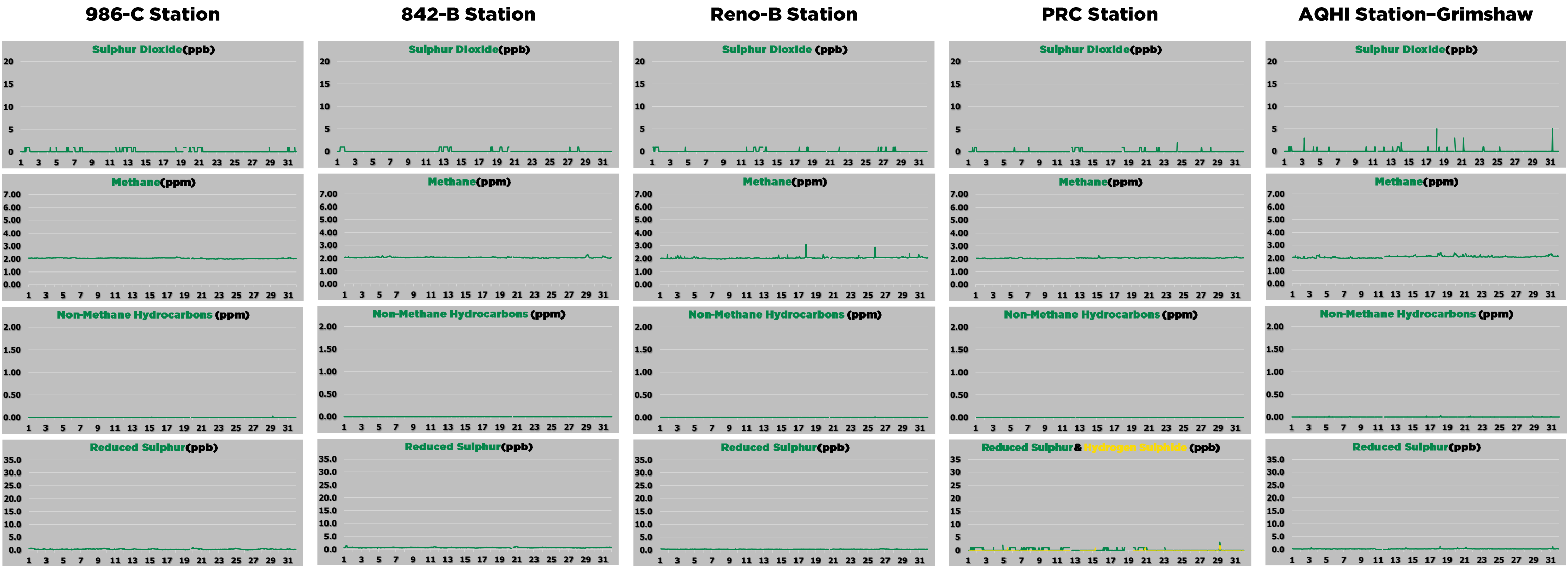


March 2025: Active Monitoring Program



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.
- 842-B Station**

 - No major operational issues this month.
- Reno-B Station**

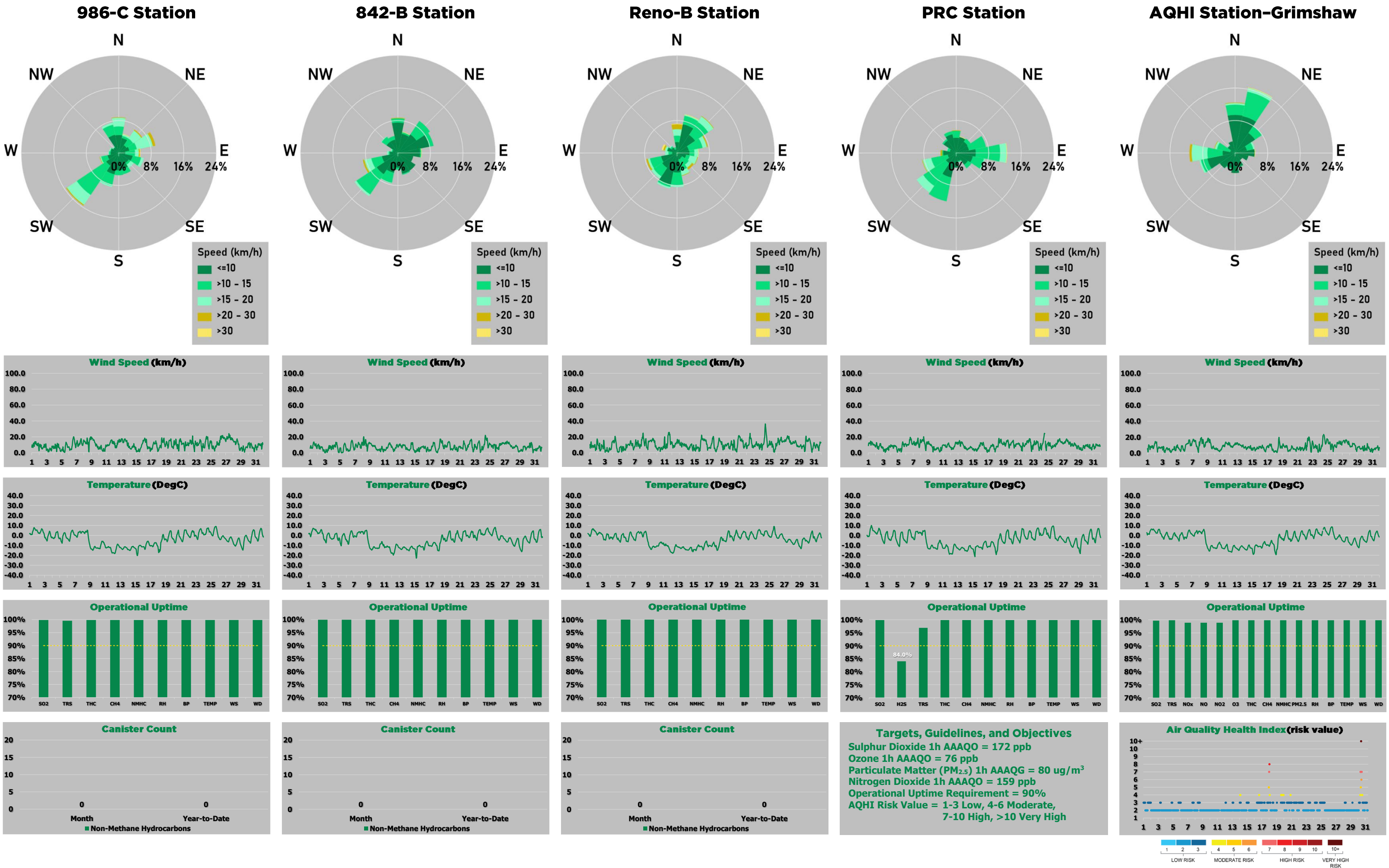
 - No major operational issues this month.
- PRC Station**

 - H₂S: A total of 118 hours of downtime were recorded in March due to multiple issues, resulting in an operational uptime of 84.0%. DINC0015367.
 - On March 12, BV’s Teledyne T101 analyzer (s/n: 1014) was replaced with CNRL’s Thermo 450i (s/n: 1308857354), which had been under repair since December 10, 2024. Installation calibration was completed on March 13. Downtime: 18 hours.
 - On March 13, the analyzer spanned low due to a permeation tube issue. A confirming zero-span check was completed March 14. Downtime: 1 hour.
 - On March 16, the analyzer failed the daily span check due to unstable UV lamp voltages. It passed an as-found check on March 18 but failed during troubleshooting. The issue was traced to degraded mirrors. The analyzer was replaced the same day with a Thermo 450i (s/n: 1034746224), and calibration was completed on March 19. Data were invalidated back to March 15. Downtime: 98 hours.
 - TRS: On March 18, Thermo 450i (s/n: 1034746224) was replaced with BV’s Thermo 43i-TLE (s/n: 1162460022). Calibration was completed on March 19. Downtime: 22 hours.
- AQHI Station – Grimshaw**

 - PM_{2.5}: On March 30 at 23:00, a 1-hour average concentration of 166 µg/m³ was recorded, exceeding the Alberta Ambient Air Quality Guideline (AAAQG) of 80 µg/m³. EDGE Reference #439109. Wind speed: 4.3 km/h, wind direction: 3° (N). Lowering wind speeds and temperatures from daytime highs likely contributed to pollutant buildup. In the hours leading up to and following the exceedance, winds were from the south to southwest, placing open fields upwind of the station. However, during the exceedance hour, winds shifted to the north, placing a residential area and unpaved laneways upwind—both likely sources of elevated PM_{2.5} concentrations.
- NMHCs Canister Sampling Program**

 - No valid NMHC canister events were recorded this month
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March 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

Air Quality Health Index(risk value)