



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

August 2024

September 30, 2024

Alberta Environment and Protected Areas

11th Floor, Oxbridge Place
9820-106 Street
Edmonton Alberta T5K 2J6

Subject: **Peace Airshed Zone Association (PAZA)**
August 2024 Ambient Air Quality Monitoring Report

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of August 2024.

The representative of the Person Responsible for this monitoring program is:

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This report was prepared by Dr. Kevin McCullum, P.Eng., and reviewed by Mandeep Dhaliwal. PAZA has retained the services of WSP Canada Inc. to conduct continuous ambient monitoring and Dr. Kevin McCullum, P.Eng. to provide data validation and reporting.

This report is submitted by PAZA on behalf of the industrial member companies to satisfy the requirements of the facility Operating Approvals listed in Table A

The monthly summary report includes the operational summaries and hourly continuous monitoring and monthly passive results. The Milner station is being reported under the PAZA Monthly report.

Continuous Monitoring:

Eight (8) Stations including Henry Pirker (Grande Prairie), Dunes, Smoky Heights, Beaverlodge, Valleyview, Fox Creek, Happy Valley-Portable and Milner.
Detailed Summaries are included in the report.

Calibration and Data Submission:

Monthly report, hourly data and calibration reports for August 2024 were submitted to the ETS data system.

Table A. PAZA members with Facility Operating Approvals

| Company | Facility | LSD | EPEA Approval No. |
|--|--|-----------------|--------------------------|
| Advantage Oil & Gas Ltd. | Glacier | 05-02-076-13-W6 | 00262479-00-00 |
| Alberta Power (2000) Ltd. (an ATCO company) | Sturgeon | SW-06-069-21-W5 | 00010283-02-02 |
| ATCO Power Canada | Poplar Hill | 11-19-073-08-W6 | 00067774-01-01 |
| ATCO Power Canada | Valleyview | SW-06-069-21-W5 | 00147709-01-01 |
| AltaGas Ltd. | Pouce Coupe | 03-03-081-13-W6 | 00247673-00-00 |
| | Gordondale | 02-26-068-25-W5 | 00287474-00-00 |
| Apache Canada Ltd. | House Mountain | 01-08-070-10-W5 | 00010137-02-02 |
| ARC Resources Ltd. | ARC Ante Creek | 02-26-068-25-W5 | 00266694-01-00 |
| Birchcliff Energy Ltd. | Pouce Coupe | 03-22-078-12-W6 | 00252529-00-00 |
| Canadian Natural Resources Limited | Bonanza | 11-25-081-11-W6 | 00000029-01-00 |
| | Progress/Gordondale | 01-01-077-10-W6 | 00010036-02-00 |
| | Gold Creek | 13-26-067-05-W6 | 00010446-02-00 |
| | Teepee Creek | SE-2-074-04-W6 | 00001635-02-00 |
| | Sturgeon/Valleyview | 02-02-069-22-W5 | 00001633-02-00 |
| Canfor Forest Products | Grande Prairie | SW-23-071-06-W6 | 00152645-01-00 |
| Conocophillips Canada Energy Partnership | Wembley | 06-19-073-08-W6 | 00000212-01-00 |
| Encana Corporation | Sexsmith | 04-08-075-07-W6 | 00010002-01-00 |
| Enerplus Resources | Pouce Coupe | SW-06-069-21-W5 | 00001464-02-03 |
| Exshaw Oil Corporation | Spirit River | 03-10-077-07-W6 | 00344521-00-00 |
| Grande Prairie Generation Inc. | Northern Prairie Power Project | 04-19-073-08-W6 | 00238762-00-00 |
| Inception Exploration Ltd. | Gold Creek | 03-26-069-05-W6 | 00335317-00-02 |
| KANATA Energy Group Ltd. | Valhalla | 13-21-076-09-W6 | 00017620-02-02 |
| Long Run Exploration | Eaglesham | 01-25-076-01-W6 | 00241532-00-00 |
| | Kakut | 14-12-075-03-W6 | 00248469-00-00 |
| | Donnelly | 06-01-077-21-W5 | 00000087-02-00 |
| | Puskwaskau | 03-26-074-01-W6 | 00017524-01-00 |
| Longview Oil Corp. | Sunset House | 06-22-070-20-W5 | 00138884-01-00 |
| Milner Power Limited Partnership | H.R. Milner thermal electric power plant | SE-15-058-08-W6 | 00009814-03-03 |
| NorthRiver Midstream Inc. | Fourth Creek | 16-11-082-09-W6 | 00000263-01-00 |
| | Gordondale | 11-26-079-09-W6 | 00011495-01-01 |
| | Pouce Coupe/Bonanza | 03-23-080-13-W6 | 00070203-01-01 |
| Pembina Pipeline Corporation | Kakwa River | 08-13-063-05 W6 | 00335342-01-00 |
| Penn West Petroleum Ltd. | Tangent | 13-29-080-23-W5 | 00001746-02-00 |
| | Pouce Coupe | 16-07-078-11-W6 | 00000614-01-00 |
| Petrus Resources | Rycroft | 08-25-077-06-W6 | 00011351-02-00 |
| | Spirit River | 08-34-077-06-W6 | 00011096-02-00 |
| Strathcona Resources Ltd. | Jayar Sour Gas Processing Plant | 06-08-062-03 W6 | 03612040-00-00 |
| Suncor Energy Inc. | Progress | 07-22-078-09-W6 | 00011428-02-00 |
| Tidewater Midstream and Infrastructure Ltd. | Pipestone Sour Gas Plant | NW-35-70-9 W6 | 00403309-00-00 |
| Veresen Energy | Hythe Brainard | 11-18-074-12-W6 | 00010910-02-00 |
| Weyerhaeuser Canada | Grande Prairie Pulp and Wood Plant | 01-14-070-05-W6 | 00000113-02-00 |

Concentrations in excess of the Clean Air (Maximum Levels) Regulation:

- There were 28 readings above the 24hr PM_{2.5} AAAQO, 188 readings above the 1hr PM_{2.5} AAAQO for the month

One-hr readings above the PM_{2.5} AAAQO (80µg/m³) recorded as follows:

| Site | reference | Pollutant | Date | From MST | To MST | Average µg/m ³ | WS km/hr | WD degrees |
|-------------|-----------|-------------------|-----------|-------------|-----------|------------------------------|-------------|---------------|
| Beaverlodge | 431645 | PM _{2.5} | 11-Aug-24 | 11:00 | 12:00 | 81.6 | 4.8 | 226 |
| Beaverlodge | 431645 | PM _{2.5} | 11-Aug-24 | 12:00 | 13:00 | 81.7 | 9.0 | 199 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 08:00 | 09:00 | 80.8 | 5.2 | 162 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 09:00 | 10:00 | 97.6 | 6.1 | 176 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 10:00 | 11:00 | 116.6 | 8.6 | 210 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 11:00 | 12:00 | 127.8 | 11.1 | 212 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 12:00 | 13:00 | 85.6 | 11.4 | 211 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 13:00 | 14:00 | 86.7 | 17.9 | 222 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 14:00 | 15:00 | 143.0 | 13.1 | 178 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 15:00 | 16:00 | 141.6 | 15.4 | 162 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 16:00 | 17:00 | 139.7 | 16.5 | 168 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 17:00 | 18:00 | 110.6 | 8.7 | 202 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 19:00 | 20:00 | 85.3 | 3.8 | 147 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 20:00 | 21:00 | 81.4 | 10.6 | 214 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 22:00 | 23:00 | 80.8 | 5.5 | 29 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 06:00 | 07:00 | 94.8 | 6.9 | 297 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 07:00 | 08:00 | 353.6 | 14.0 | 290 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 08:00 | 09:00 | 454.7 | 17.5 | 299 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 09:00 | 10:00 | 417.9 | 13.3 | 289 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 10:00 | 11:00 | 296.6 | 20.8 | 282 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 11:00 | 12:00 | 207.7 | 21.4 | 279 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 12:00 | 13:00 | 186.9 | 21.2 | 275 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 13:00 | 14:00 | 185.1 | 16.0 | 298 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 14:00 | 15:00 | 152.4 | 18.7 | 304 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 15:00 | 16:00 | 262.8 | 19.8 | 320 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 16:00 | 17:00 | 381.7 | 18.7 | 314 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 17:00 | 18:00 | 284.3 | 16.0 | 296 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 18:00 | 19:00 | 206.6 | 16.2 | 297 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 19:00 | 20:00 | 99.5 | 10.1 | 296 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 21:00 | 22:00 | 81.8 | 5.7 | 291 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 22:00 | 23:00 | 101.8 | 5.8 | 335 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 23:00 | 00:00 | 272.4 | 4.7 | 325 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 00:00 | 01:00 | 225.0 | 4.3 | 291 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 01:00 | 02:00 | 370.5 | 2.9 | 331 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 02:00 | 03:00 | 580.1 | 5.1 | 349 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 03:00 | 04:00 | 469.5 | 2.0 | 309 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 04:00 | 05:00 | 496.5 | 3.1 | 314 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 05:00 | 06:00 | 457.2 | 3.0 | 306 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 06:00 | 07:00 | 419.6 | 3.3 | 38 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 07:00 | 08:00 | 382.3 | 1.5 | 89 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 08:00 | 09:00 | 261.7 | 2.6 | 177 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 09:00 | 10:00 | 88.1 | 4.9 | 210 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 23:00 | 00:00 | 91.3 | 1.6 | 223 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 00:00 | 01:00 | 112.8 | 2.0 | 73 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 01:00 | 02:00 | 212.2 | 2.4 | 75 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 02:00 | 03:00 | 250.9 | 3.2 | 65 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 03:00 | 04:00 | 252.6 | 2.1 | 167 |

| Site | reference | Pollutant | Date | From MST | To MST | Average µg/m ³ | WS km/hr | WD degrees |
|--------------|-----------|-------------------|-----------|-------------|-----------|------------------------------|-------------|---------------|
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 04:00 | 05:00 | 151.1 | 1.6 | 13 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 07:00 | 08:00 | 83.3 | 4.6 | 313 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 08:00 | 09:00 | 95.4 | 7.9 | 292 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 09:00 | 10:00 | 117.3 | 6.6 | 314 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 10:00 | 11:00 | 106.2 | 4.6 | 335 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 11:00 | 12:00 | 83.7 | 2.6 | 353 |
| Beaverlodge | 431645 | PM _{2.5} | 21-Aug-24 | 10:00 | 11:00 | 88.7 | 15.8 | 318 |
| Beaverlodge | 431645 | PM _{2.5} | 21-Aug-24 | 11:00 | 12:00 | 104.2 | 15.5 | 323 |
| Beaverlodge | 431645 | PM _{2.5} | 21-Aug-24 | 12:00 | 13:00 | 80.9 | 18.8 | 309 |
| Dunes | 431737 | PM _{2.5} | 13-Aug-24 | 09:00 | 10:00 | 130.2 | 5.2 | 273 |
| Dunes | 431737 | PM _{2.5} | 13-Aug-24 | 10:00 | 11:00 | 130.1 | 5.5 | 279 |
| Dunes | 431737 | PM _{2.5} | 13-Aug-24 | 17:00 | 18:00 | 101.1 | 8.0 | 327 |
| Dunes | 431737 | PM _{2.5} | 13-Aug-24 | 18:00 | 19:00 | 92.6 | 5.8 | 307 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 23:00 | 00:00 | 97.8 | 1.8 | 338 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 03:00 | 04:00 | 93.3 | 1.1 | 255 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 04:00 | 05:00 | 127.7 | 1.7 | 236 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 05:00 | 06:00 | 130.6 | 1.8 | 228 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 06:00 | 07:00 | 121.1 | 0.7 | 251 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 07:00 | 08:00 | 135.8 | 1.2 | 271 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 08:00 | 09:00 | 179.8 | 1.5 | 297 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 09:00 | 10:00 | 133.1 | 1.6 | 214 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 20:00 | 21:00 | 93.6 | 3.7 | 27 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 21:00 | 22:00 | 96.8 | 1.7 | 339 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 22:00 | 23:00 | 94.6 | 0.9 | 333 |
| Dunes | 431737 | PM _{2.5} | 15-Aug-24 | 23:00 | 00:00 | 97.8 | 0.5 | 260 |
| Dunes | 431737 | PM _{2.5} | 15-Aug-24 | 00:00 | 01:00 | 91.2 | 0.3 | 217 |
| Dunes | 431737 | PM _{2.5} | 15-Aug-24 | 01:00 | 02:00 | 87.2 | 0.4 | 262 |
| Dunes | 431737 | PM _{2.5} | 15-Aug-24 | 02:00 | 03:00 | 84.2 | 0.6 | 264 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 08:00 | 09:00 | 153.6 | 3.0 | 40 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 09:00 | 10:00 | 228.7 | 4.8 | 50 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 10:00 | 11:00 | 217.6 | 5.2 | 50 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 11:00 | 12:00 | 129.0 | 4.9 | 31 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 12:00 | 13:00 | 101.7 | 4.0 | 58 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 13:00 | 14:00 | 85.1 | 5.8 | 22 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 15:00 | 16:00 | 82.6 | 10.8 | 14 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 16:00 | 17:00 | 151.2 | 12.9 | 5 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 17:00 | 18:00 | 147.9 | 9.4 | 11 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 18:00 | 19:00 | 140.3 | 8.7 | 25 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 19:00 | 20:00 | 99.6 | 6.4 | 65 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 22:00 | 23:00 | 117.1 | 11.3 | 64 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 23:00 | 00:00 | 224.5 | 12.2 | 75 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 00:00 | 01:00 | 181.6 | 12.7 | 84 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 01:00 | 02:00 | 166.8 | 12.2 | 77 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 02:00 | 03:00 | 192.0 | 13.5 | 79 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 03:00 | 04:00 | 210.8 | 2.5 | 297 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 04:00 | 05:00 | 218.9 | 3.1 | 292 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 05:00 | 06:00 | 202.6 | 1.4 | 243 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 06:00 | 07:00 | 178.1 | 1.5 | 240 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 07:00 | 08:00 | 193.0 | 2.2 | 226 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 08:00 | 09:00 | 226.6 | 1.5 | 271 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 09:00 | 10:00 | 190.8 | 2.1 | 227 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 10:00 | 11:00 | 93.0 | 4.3 | 197 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 20:00 | 21:00 | 119.3 | 5.3 | 26 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 21:00 | 22:00 | 122.5 | 2.7 | 31 |

| Site | reference | Pollutant | Date | From MST | To MST | Average $\mu\text{g}/\text{m}^3$ | WS km/hr | WD degrees |
|---------------|---------------|-------------------|-----------|-------------|-----------|-------------------------------------|-------------|---------------|
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 22:00 | 23:00 | 122.9 | 1.7 | 341 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 23:00 | 00:00 | 124.0 | 2.0 | 315 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 00:00 | 01:00 | 123.0 | 1.0 | 327 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 01:00 | 02:00 | 123.6 | 2.2 | 298 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 02:00 | 03:00 | 117.8 | 2.3 | 323 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 03:00 | 04:00 | 113.1 | 2.1 | 277 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 04:00 | 05:00 | 110.2 | 3.3 | 294 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 05:00 | 06:00 | 113.6 | 1.9 | 312 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 06:00 | 07:00 | 103.1 | 0.2 | 294 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 07:00 | 08:00 | 98.5 | 1.4 | 299 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 12:00 | 13:00 | 116.1 | 17.4 | 300 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 13:00 | 14:00 | 94.0 | 16.0 | 297 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 14:00 | 15:00 | 80.8 | 12.8 | 296 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 16:00 | 17:00 | 99.5 | 15.6 | 306 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 17:00 | 18:00 | 103.7 | 16.2 | 301 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 18:00 | 19:00 | 144.9 | 10.3 | 300 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 19:00 | 20:00 | 213.7 | 14.6 | 290 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 20:00 | 21:00 | 204.2 | 9.3 | 306 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 21:00 | 22:00 | 192.7 | 9.3 | 310 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 22:00 | 23:00 | 165.3 | 7.6 | 291 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 23:00 | 00:00 | 206.8 | 10.2 | 286 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 00:00 | 01:00 | 201.9 | 10.0 | 256 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 01:00 | 02:00 | 167.6 | 8.0 | 265 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 02:00 | 03:00 | 194.1 | 7.3 | 277 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 03:00 | 04:00 | 163.3 | 5.9 | 280 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 04:00 | 05:00 | 176.6 | 5.9 | 266 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 05:00 | 06:00 | 182.4 | 5.4 | 254 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 06:00 | 07:00 | 193.3 | 4.3 | 279 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 11:00 | 12:00 | 187.8 | 8.1 | 224 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 12:00 | 13:00 | 160.7 | 9.9 | 220 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 18:00 | 19:00 | 129.7 | 14.0 | 25 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 19:00 | 20:00 | 105.7 | 10.7 | 36 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 20:00 | 21:00 | 88.2 | 6.3 | 35 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 21:00 | 22:00 | 83.6 | 4.0 | 32 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 22:00 | 23:00 | 80.4 | 3.2 | 1 |
| Smoky Heights | 431647 | PM _{2.5} | 15-Aug-24 | 11:00 | 12:00 | 110.5 | 5.9 | 55 |
| Smoky Heights | 431647 | PM _{2.5} | 15-Aug-24 | 12:00 | 13:00 | 108.3 | 4.8 | 51 |
| Fox Creek | 431842 | PM _{2.5} | 13-Aug-24 | 17:00 | 18:00 | 84.9 | 6.3 | 1 |
| Fox Creek | 431842 | PM _{2.5} | 13-Aug-24 | 18:00 | 19:00 | 95.6 | 5.0 | 352 |
| Fox Creek | 431842 | PM _{2.5} | 15-Aug-24 | 09:00 | 10:00 | 116.5 | 2.7 | 140 |
| Fox Creek | 431842 | PM _{2.5} | 15-Aug-24 | 10:00 | 11:00 | 125.9 | 2.2 | 140 |
| Fox Creek | 431842 | PM _{2.5} | 15-Aug-24 | 11:00 | 12:00 | 97.2 | 2.8 | 126 |
| Happy Valley | 431646 | PM _{2.5} | 10-Aug-24 | 05:00 | 06:00 | 118.9 | 2.6 | 266 |
| Happy Valley | 431646 | PM _{2.5} | 10-Aug-24 | 06:00 | 07:00 | 83.7 | 1.1 | 285 |
| Happy Valley | 431646 | PM _{2.5} | 11-Aug-24 | 03:00 | 04:00 | 118.0 | 1.8 | 312 |
| Happy Valley | 431646 | PM _{2.5} | 11-Aug-24 | 05:00 | 06:00 | 155.6 | 2.1 | 273 |
| Happy Valley | 431646 | PM _{2.5} | 11-Aug-24 | 06:00 | 07:00 | 221.8 | 0.7 | 186 |
| Happy Valley | 431646 | PM _{2.5} | 11-Aug-24 | 07:00 | 08:00 | 222.5 | 0.9 | 178 |
| Happy Valley | 431646 | PM _{2.5} | 11-Aug-24 | 08:00 | 09:00 | 119.8 | 6.1 | 262 |
| Happy Valley | 431646 | PM _{2.5} | 12-Aug-24 | 05:00 | 06:00 | 81.0 | 5.7 | 244 |
| Happy Valley | 431646 | PM _{2.5} | 12-Aug-24 | 06:00 | 07:00 | 95.2 | 5.4 | 245 |
| Happy Valley | 431646 | PM _{2.5} | 12-Aug-24 | 07:00 | 08:00 | 120.5 | 6.6 | 248 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 07:00 | 08:00 | 182.1 | 17.6 | 256 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 08:00 | 09:00 | 287.3 | 19.8 | 257 |

| Site | reference | Pollutant | Date | From MST | To MST | Average $\mu\text{g}/\text{m}^3$ | WS km/hr | WD degrees |
|--------------|---------------|-------------------|-----------|-------------|-----------|-------------------------------------|-------------|---------------|
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 09:00 | 10:00 | 247.0 | 17.2 | 258 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 10:00 | 11:00 | 228.7 | 15.5 | 271 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 11:00 | 12:00 | 210.3 | 13.6 | 276 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 12:00 | 13:00 | 249.8 | 17.5 | 278 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 13:00 | 14:00 | 232.7 | 20.5 | 288 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 14:00 | 15:00 | 208.7 | 20.1 | 283 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 15:00 | 16:00 | 229.0 | 18.4 | 276 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 16:00 | 17:00 | 378.5 | 18.2 | 276 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 17:00 | 18:00 | 474.0 | 16.7 | 274 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 18:00 | 19:00 | 440.4 | 16.1 | 274 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 19:00 | 20:00 | 347.9 | 12.2 | 276 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 20:00 | 21:00 | 327.9 | 8.5 | 268 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 21:00 | 22:00 | 303.7 | 8.8 | 278 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 22:00 | 23:00 | 279.1 | 8.4 | 282 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 23:00 | 00:00 | 284.3 | 6.4 | 270 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 00:00 | 01:00 | 313.3 | 9.0 | 280 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 01:00 | 02:00 | 366.3 | 5.8 | 274 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 02:00 | 03:00 | 376.2 | 9.2 | 284 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 03:00 | 04:00 | 386.9 | 7.2 | 285 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 04:00 | 05:00 | 371.9 | 5.6 | 255 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 05:00 | 06:00 | 352.3 | 4.0 | 269 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 06:00 | 07:00 | 367.0 | 4.5 | 256 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 07:00 | 08:00 | 284.7 | 4.2 | 257 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 08:00 | 09:00 | 229.8 | 5.1 | 256 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 09:00 | 10:00 | 186.3 | 3.7 | 276 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 10:00 | 11:00 | 137.4 | 4.2 | 290 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 11:00 | 12:00 | 118.2 | 4.4 | 336 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 12:00 | 13:00 | 91.8 | 4.3 | 333 |
| Happy Valley | 431646 | PM _{2.5} | 15-Aug-24 | 01:00 | 02:00 | 92.6 | 1.7 | 272 |
| Happy Valley | 431646 | PM _{2.5} | 18-Aug-24 | 22:00 | 23:00 | 97.9 | 3.7 | 113 |
| Happy Valley | 431646 | PM _{2.5} | 21-Aug-24 | 10:00 | 11:00 | 81.6 | 15.6 | 45 |
| Happy Valley | 431646 | PM _{2.5} | 21-Aug-24 | 11:00 | 12:00 | 96.4 | 18.1 | 49 |
| Happy Valley | 431646 | PM _{2.5} | 23-Aug-24 | 22:00 | 23:00 | 95.4 | 3.6 | 256 |

24-hr readings above the PM_{2.5} AAAQO (29 $\mu\text{g}/\text{m}^3$) recorded as follows:

| Site | reference | Pollutant | Date | Average $\mu\text{g}/\text{m}^3$ | WS km/hr | WD degrees |
|---------------|---------------|-------------------|-----------|-------------------------------------|-------------|---------------|
| Beaverlodge | 431645 | PM _{2.5} | 10-Aug-24 | 36.6 | 5.2 | 134 |
| Beaverlodge | 431645 | PM _{2.5} | 11-Aug-24 | 50.0 | 5.2 | 211 |
| Beaverlodge | 431645 | PM _{2.5} | 12-Aug-24 | 86.8 | 7.6 | 183 |
| Beaverlodge | 431645 | PM _{2.5} | 13-Aug-24 | 187.9 | 11.4 | 294 |
| Beaverlodge | 431645 | PM _{2.5} | 14-Aug-24 | 181.9 | 7.9 | 282 |
| Beaverlodge | 431645 | PM _{2.5} | 15-Aug-24 | 87.7 | 6.6 | 352 |
| Beaverlodge | 431645 | PM _{2.5} | 21-Aug-24 | 34.4 | 10.6 | 310 |
| Dunes | 431737 | PM _{2.5} | 13-Aug-24 | 52.8 | 4.4 | 289 |
| Dunes | 431737 | PM _{2.5} | 14-Aug-24 | 67.5 | 2.6 | 257 |
| Dunes | 431737 | PM _{2.5} | 15-Aug-24 | 38.4 | 2.3 | 224 |
| Henry Pirker | 431691 | PM _{2.5} | 12-Aug-24 | 36.7 | 5.5 | 180 |
| Henry Pirker | 431691 | PM _{2.5} | 13-Aug-24 | 99.2 | 6.5 | 52 |
| Henry Pirker | 431691 | PM _{2.5} | 14-Aug-24 | 112.9 | 5.5 | 93 |
| Henry Pirker | 431691 | PM _{2.5} | 15-Aug-24 | 65.2 | 3.3 | 335 |
| Smoky Heights | 431647 | PM _{2.5} | 13-Aug-24 | 87.0 | 10.4 | 274 |
| Smoky Heights | 431647 | PM _{2.5} | 14-Aug-24 | 116.8 | 7.6 | 268 |

| Site | reference | Pollutant | Date | Average µg/m ³ | WS km/hr | WD degrees |
|---------------|---------------|-------------------|-----------|------------------------------|-------------|---------------|
| Smoky Heights | 431647 | PM _{2.5} | 15-Aug-24 | 52.9 | 5.9 | 22 |
| Fox Creek | 431842 | PM _{2.5} | 13-Aug-24 | 35.5 | 4.8 | 307 |
| Fox Creek | 431842 | PM _{2.5} | 15-Aug-24 | 49.0 | 3.8 | 139 |
| Fox Creek | 431842 | PM _{2.5} | 16-Aug-24 | 32.0 | 4.4 | 118 |
| Happy Valley | 431646 | PM _{2.5} | 10-Aug-24 | 30.4 | 8.1 | 168 |
| Happy Valley | 431646 | PM _{2.5} | 11-Aug-24 | 61.0 | 4.4 | 223 |
| Happy Valley | 431646 | PM _{2.5} | 12-Aug-24 | 48.1 | 8.7 | 217 |
| Happy Valley | 431646 | PM _{2.5} | 13-Aug-24 | 215.9 | 12.6 | 270 |
| Happy Valley | 431646 | PM _{2.5} | 14-Aug-24 | 164.0 | 6.1 | 299 |
| Happy Valley | 431646 | PM _{2.5} | 15-Aug-24 | 51.0 | 5.0 | 317 |
| Happy Valley | 431646 | PM _{2.5} | 21-Aug-24 | 31.2 | 10.7 | 286 |
| Milner | 431839 | PM _{2.5} | 15-Aug-24 | 37.7 | 2.4 | 17 |

Operational times less than 90 percent

All instruments in the network were in operation >90% during the month.

Air Incidents

Wildfire smoke in the region resulted in periods of elevated AQHI through the month.

Deviations from Authorized Monitoring Methods

None were reported.

Passive Monitoring

- 52 Stations throughout the PAZA zone
 - Passive sample analyses were performed by Bureau Veritas Laboratories

There were 19 duplicates sampled in the month of August:

- Eight SO₂ duplicates located at Boone Creek, Eaglesham, Pinto Creek, Kinuso, Duvernay 4, Kakwa 2, Milner Powerline, Jayar2 14-8
 - RPD ranging from 0% to 51% (one fail; at Pinto Creek, 0.1 and 0.2 ppb)
- One O₃ duplicate located at Bay Tree
 - RPD 2% (no fails)
- Seven NO₂ duplicates at Webber Creek, Poplar, Peavine, Deer Mountain, Kakwa 4, Milner Wanyandie, Jayar1 Plant
 - RPD ranging from 0% to 49% (no fails)
- Three H₂S duplicates at Duvernay 4, Kakwa 1, Jayar5 Camp
 - RPD ranging from 5% to 42% (no fails)

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall
- Total dustfall ranged from 22.7 to 95.0 mg/100cm²/30day
- RPD ranged from 9% to 11% (no fails)

I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization, and reporting requirements.

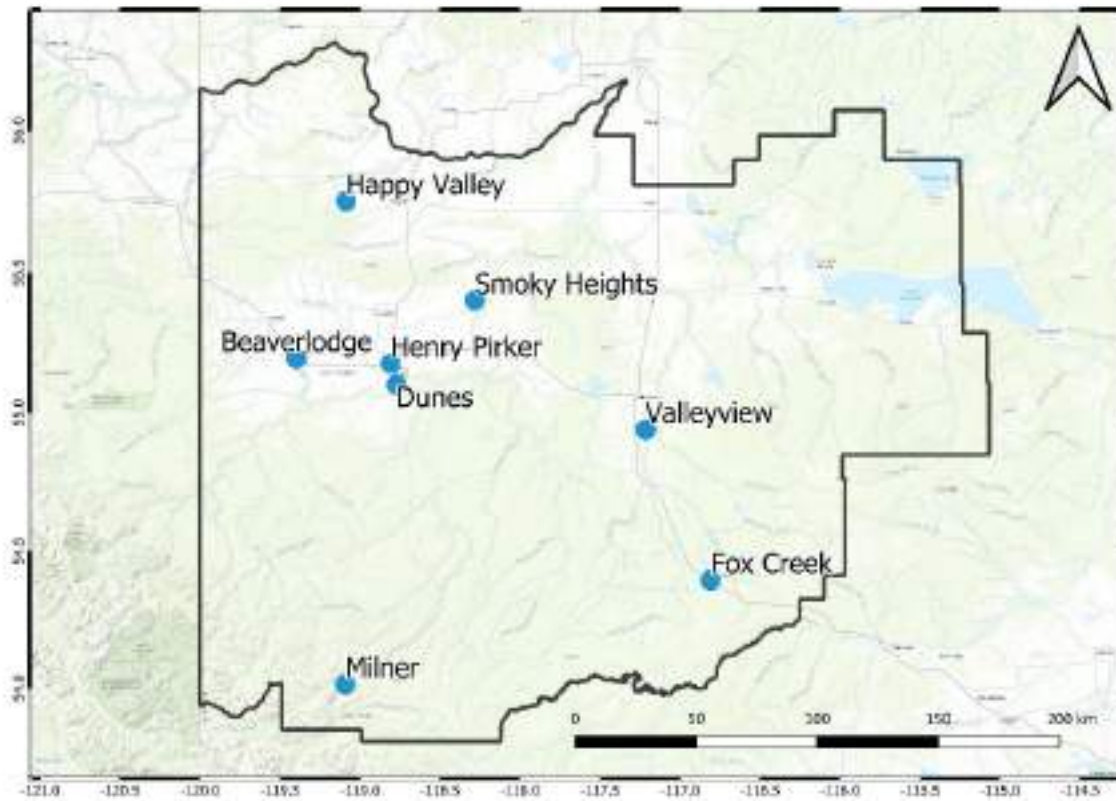


Mandeep Dhaliwal, B.Sc., P.Chem.
Program Manager

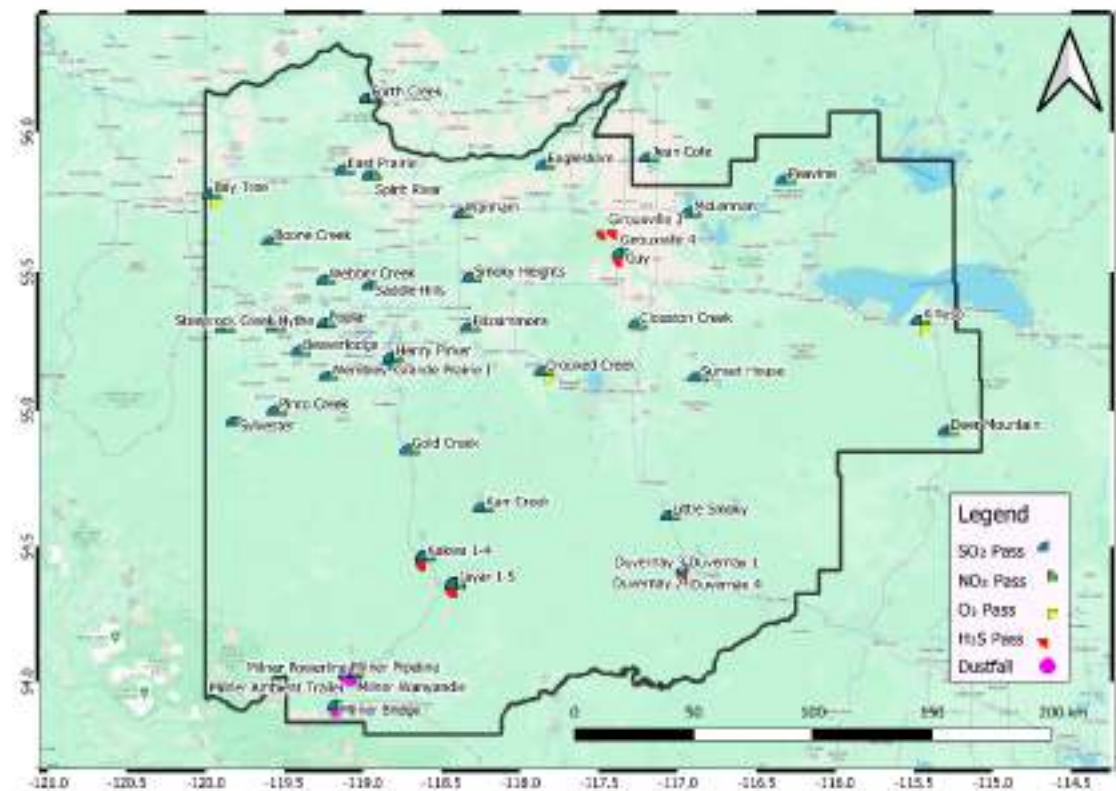
TABLE OF CONTENTS

| | | |
|-------|---|-----|
| 1 | AUGUST 2024 MONTHLY STATION SUMMARIES | 2 |
| 1.1 | Beaverlodge Air Monitoring Station..... | 2 |
| 1.2 | Dunes Air Monitoring Station..... | 2 |
| 1.3 | Grande Prairie - Henry Pirker Air Monitoring Station..... | 3 |
| 1.4 | Smoky Heights Air Monitoring Station | 3 |
| 1.5 | Valleyview Air Monitoring Station | 4 |
| 1.6 | Fox Creek Air Monitoring Station | 4 |
| 1.7 | Happy Valley Air Monitoring Station..... | 5 |
| 1.8 | Milner Air Monitoring Station | 5 |
| 2 | BEAVERLODGE CHARTS..... | 6 |
| 3 | DUNES CHARTS | 16 |
| 4 | GRANDE PRAIRIE - HENRY PIRKER CHARTS | 24 |
| 5 | SMOKY HEIGHTS CHARTS..... | 38 |
| 6 | VALLEYVIEW CHARTS | 45 |
| 7 | FOX CREEK CHARTS | 52 |
| 8 | HAPPY VALLEY (PORTABLE) CHARTS | 62 |
| 9 | MILNER CHARTS..... | 73 |
| 10 | CONCENTRATION SUMMARIES AND ROSES FOR PAZA..... | 80 |
| 10.1 | Air Quality Health Index (AQHI) Plots..... | 81 |
| 10.2 | Wind Roses | 82 |
| 10.3 | Carbon Monoxide (CO) Plots..... | 82 |
| 10.4 | Sulphur Dioxide (SO ₂) Plots | 83 |
| 10.5 | Nitrogen Dioxide (NO ₂) Plots..... | 84 |
| 10.6 | Ozone (O ₃) Plots | 85 |
| 10.7 | Fine Particulate Matter (PM _{2.5}) Plots..... | 86 |
| 10.8 | Hydrogen Sulphide (H ₂ S) Plots | 87 |
| 10.9 | Total Reduced Sulphur (TRS) Plots | 88 |
| 10.10 | Total Hydrocarbon (THC) Plots..... | 89 |
| 10.11 | Meteorology Summary | 90 |
| 11 | PASSIVE MONITORING DATA | 91 |
| 12 | DUSTFALL MONITORING DATA | 100 |
| 13 | END OF REPORT | 101 |

PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 August 2024 Monthly Station Summaries

The following summaries are for the equipment and data results from the continuous ambient work

1.1 Beaverlodge Air Monitoring Station

PAZA - August 2024 Beaverlodge Station Report

| Parameter | August | | | | 1-hour | | | 24-hour | | | Exceedance | | | | Calibration Date |
|---------------------------------------|----------------|--------------|--------------------|----------------|--------|-----------|------------------|---------|-----------|---------|---|-----|------|-----|------------------|
| | Average | Minimum | Valid | Operational | Max | Objective | Max Day and Time | Max | Objective | Max Day | 1hr | 8hr | 24hr | 30d | |
| SO ₂ (ppb) | 0.4 | 0.0 | 94.4% | 99.6% | 11.3 | - | Aug-04 07:00 | 0.9 | - | Aug-08 | - | - | - | - | Aug-05, 2024 |
| NO _x (ppb) | 3.0 | 0.2 | 94.4% | 99.6% | 22.5 | 150 | Aug-07 02:00 | 6.1 | - | Aug-30 | 0 | - | - | - | Aug-05, 2024 |
| NO _y (ppb) | 3.3 | 0.2 | 94.4% | 99.6% | 22.8 | - | Aug-07 02:00 | 6.5 | - | Aug-30 | - | - | - | - | Aug-05, 2024 |
| O ₃ (ppb) | 26.9 | 0.5 | 95.0% | 99.0% | 57.4 | 75 | Aug-09 14:00 | 40.0 | - | Aug-09 | 0 | - | - | - | Aug-07, 2024 |
| PM ₁₀ (µg/m ³) | 31.0 | 0.4 | 92.1% | 92.2% | 580.1 | 80 | Aug-14 03:00 | 187.9 | 25 | Aug-23 | 56 | - | 7 | - | Aug-15, 2024 |
| SO _x (ppb) | 0.4 | 0.0 | 94.9% | 99.0% | 9.3 | 172 | Aug-25 01:00 | 1.2 | 48 | Aug-04 | 0 | - | 0 | 0 | Aug-07, 2024 |
| Average | Minimum | Valid | Operational | Maximum | | | | | | | | | | | |
| Temp (°C) | 17.1 | 7.1 | 95.3% | 95.3% | 30.3 | | | | | | | | | | |
| RH (%) | 60.3 | 17.5 | 95.6% | 95.6% | 95.9 | | | | | | | | | | |
| WS (km/hr) | 10.7 | 0.4 | 95.6% | 95.6% | 41.2 | | | | | | | | | | |
| WD (deg) | 272 | 0.5 | 95.6% | 95.6% | 333.9 | | | | | | | | | | |
| | | | | | | | | | | | Note: Valid hours must be greater than 75% Operational hours must be greater than 90% | | | | |
| Average Wind Direction | | | | | | | | 272 | | W | | | | | |

Update Summary:

| Parameter | Model | Model | Equipment summary |
|-------------------------------------|--------|---------|--|
| NO/NO _x /NO _y | Thermo | 42IQ | August 24, 3hrs removed from power failure |
| O ₃ | Thermo | 89IQ | August 24, 3hrs removed from power failure |
| PM ₁₀ | API | 1640 | August 7, removal maintenance to replace pump, issue with one of the boards, unit shut down; August 9 installed spare unit (SN-2005 ANU 2526); August 15, removed spare and installed fixed unit (1hr maintenance); August 24, 3hrs removed from power failure; August 10 to 21, 56x1hr readings above AAQO and 7x24hr readings above AAQO |
| SO ₂ | Thermo | 43i-TLE | August 24, 3hrs removed from power failure |
| Met Equip | MetOne | 50.5 | For ET, daily drop removed every day 04:21-04:43 (51hrs); Aug 7 additional 1hr removed; Aug 25, 3hrs power failure |

1.2 Dunes Air Monitoring Station

PAZA - August 2024 Dunes Station Report

| Parameter | August | | | | 1-hour | | | 24-hour | | | Exceedance | | | | Calibration Date |
|---------------------------------------|----------------|--------------|--------------------|----------------|--------|-----------|------------------|---------|-----------|---------|---|-----|------|-----|------------------|
| | Average | Minimum | Valid | Operational | Max | Objective | Max Day and Time | Max | Objective | Max Day | 1hr | 8hr | 24hr | 30d | |
| PM ₁₀ (µg/m ³) | 13.2 | 0.4 | 98.8% | 98.9% | 179.8 | 80 | Aug-14 09:00 | 67.5 | 25 | Aug-14 | 19 | - | 1 | - | Aug-28-2024 |
| SO ₂ (ppb) | 0.4 | 0.0 | 94.2% | 98.9% | 5.3 | 172 | Aug-29 22:00 | 1.2 | 48 | Aug-27 | 0 | - | 0 | 0 | Aug-26-2024 |
| TRN (ppb) | 0.4 | 0.0 | 94.2% | 98.9% | 4.4 | 10 | Sep-03 00:00 | 0.9 | 3 | Aug-28 | 0 | - | 0 | - | Aug-26-2024 |
| Average | Minimum | Valid | Operational | Maximum | | | | | | | | | | | |
| Temp (°C) | 16.9 | 6.1 | 98.9% | 98.9% | 31.7 | | | | | | | | | | |
| RH (%) | 64.4 | 15.3 | 98.9% | 98.9% | 99.0 | | | | | | | | | | |
| WS (km/hr) | 3.6 | 0.0 | 98.9% | 98.9% | 10.0 | | | | | | | | | | |
| WD (deg) | 243 | 0.5 | 98.9% | 98.9% | 358.5 | | | | | | | | | | |
| | | | | | | | | | | | Note: Valid hours must be greater than 75% Operational hours must be greater than 90% | | | | |
| Average Wind Direction | | | | | | | | 243 | | WSW | | | | | |

Update Summary:

| Parameter | Model | Model | Equipment summary |
|------------------|------------|-----------------|---|
| PM ₁₀ | Thermo | SHARP 503D | Aug 13 to 15, 10x1hr readings above AAQO and 3x24hr readings above AAQO; Aug 18, 8hrs removed due to communication loss |
| SO ₂ | Thermo | 43i | Aug 18, 8hrs removed due to communication loss |
| TRN | Thermo | 43i | Aug 18, 8hrs removed due to communication loss |
| Met Equip | 5i/RMYoung | MetPak/RMY96004 | Aug 18, 8hrs removed due to communication loss |

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - August 2024 Henry Pirker Station Report

| Parameter | August | | | | 1-hour | | | 8-hour / 24-hour | | | Exceedance | | | | Calibration Date | |
|--|----------------|--------------|--------------------|----------------|--------|--|------------------|------------------|-----------|---------|------------|-----|------|-----|------------------|--------------|
| | Average | Minimum | Valid | Operational | Max | Objective | Max Day and Time | Max | Objective | Max Day | 1hr | 8hr | 24hr | 30d | | |
| NO (ppb) | 0.9 | 0.0 | 95.0% | 100.0% | 18.1 | - | Aug-02 07:00 | 2.6 | - | Aug-25 | - | - | - | - | Aug 01, 2024 | |
| NO ₂ (ppb) | 4.6 | 0.8 | 95.0% | 100.0% | 18.5 | 150 | Aug-26 01:00 | 7.1 | - | Aug-25 | 0 | - | - | - | Aug 01, 2024 | |
| NO _x (ppb) | 5.5 | 0.8 | 95.0% | 100.0% | 31.6 | - | Aug-15 08:00 | 9.8 | - | Aug-25 | - | - | - | - | Aug 01, 2024 | |
| O ₃ (ppb) | 25.2 | 0.6 | 95.4% | 100.0% | 62.0 | 78 | Aug-10 19:00 | 40.8 | - | Aug-30 | 0 | - | - | - | Aug 01, 2024 | |
| PM _{2.5} (µg/m ³) | 15.6 | 0.7 | 99.6% | 99.9% | 225.7 | 80 | Aug-13 20:00 | 312.9 | 25 | Aug-24 | 38 | - | 4 | - | Aug 02, 2024 | |
| SO ₂ (ppb) | 0.2 | 0.0 | 95.3% | 100.0% | 3.7 | 172 | Aug-01 02:00 | 0.0 | 48 | Aug-29 | 0 | - | 0 | 0 | Aug 02, 2024 | |
| H ₂ S (ppb) | 0.2 | 0.0 | 95.3% | 100.0% | 2.1 | 38 | Aug-31 23:00 | 0.4 | 5 | Aug-24 | 0 | - | 0 | - | Aug 02, 2024 | |
| CH ₄ (ppm) | 2.5 | 2.0 | 91.9% | 96.8% | 3.7 | - | Aug-23 01:00 | 2.4 | - | Aug-07 | - | - | - | - | Aug 29, 2024 | |
| THC (ppm) | 2.5 | 2.0 | 91.9% | 96.8% | 3.7 | - | Aug-23 01:00 | 2.5 | - | Aug-07 | - | - | - | - | Aug 29, 2024 | |
| NMHC (ppm) | 0.0 | 0.0 | 91.8% | 96.8% | 0.0 | - | Aug-02 08:00 | 0.0 | - | Aug-02 | - | - | - | - | Aug 29, 2024 | |
| CO (ppm) | 0.5 | 0.1 | 95.3% | 100.0% | 2.1 | 11 | Aug-14 09:00 | 0.9 | 5 | Aug-24 | 0 | 0 | - | - | Aug 29, 2024 | |
| Average | Minimum | Valid | Operational | Maximum | | | | | | | | | | | | |
| Temp (°C) | 18.1 | 5.8 | 100.0% | 100.0% | 32.5 | <div style="border: 1px solid black; padding: 2px;"> Note: Valid hours must be greater than 75% Operational hours must be greater than 90% </div> | | | | | | | | | | May 21, 2024 |
| RH (%) | 58.9 | 14.7 | 100.0% | 100.0% | 90.2 | | | | | | | | | | | May 21, 2024 |
| SR (W/m ²) | 366.5 | 0.0 | 100.0% | 100.0% | 996.2 | | | | | | | | | | | May 21, 2024 |
| WS (m/s/hr) | 5.8 | 0.2 | 100.0% | 100.0% | 20.0 | | | | | | | | | | | May 21, 2024 |
| WD (deg) | 162 | 0.4 | 100.0% | 100.0% | 319.0 | Average Wind Direction | | 362 | SSC | | | | | | May 21, 2024 | |

Update Summary:

| Parameter | Make | Model | Equipment summary |
|-------------------------------------|--------|---------|--|
| NO/NO ₂ /NO _x | Thermo | 42i | No operational issues noted during the month |
| O ₃ | TECO | -89i | No operational issues noted during the month |
| PM _{2.5} | API | TE40 | Aug 9, during Aeroqual deployment, data was lost to PM analyzer (DI removed); Aug 12 to 15, 36hr readings above AAQGG and 3x24hr readings above AAQDD |
| SO ₂ | Thermo | 43i-TLE | No operational issues noted during the month |
| H ₂ S | TEI | 45Di | No operational issues noted during the month |
| THC/CH ₄ /NMHC | TEI | 55i | Aug 29, shut down & removal of 55i (SN-1151980005) installed spare (SN-1134659658) left overnight for conditioning column (19hrs); Aug 30, issues with spare and had to install original unit back in (SN-1151980005), 5hrs maintenance; >90% uptime |
| CO | Thermo | 48i-TLE | No operational issues noted during the month |
| Met Equip | MetDew | 50.5 | No operational issues noted during the month |

1.4 Smoky Heights Air Monitoring Station

PAZA - August 2024 Smoky Heights Station Report

| Parameter | August | | | | 1-hour | | | 24-hour | | | Exceedance | | | | Calibration Date | |
|--|----------------|--------------|--------------------|----------------|--------|--|------------------|---------|-----------|---------|------------|-----|------|-----|------------------|--|
| | Average | Minimum | Valid | Operational | Max | Objective | Max Day and Time | Max | Objective | Max Day | 1hr | 8hr | 24hr | 30d | | |
| PM _{2.5} (µg/m ³) | 15.4 | 0.0 | 98.9% | 99.1% | 213.7 | 80 | Aug-13 20:00 | 138.8 | 25 | Aug-24 | 27 | - | 3 | - | Aug 14, 2024 | |
| SO ₂ (ppb) | 0.1 | 0.0 | 95.0% | 99.7% | 2.3 | 172 | Aug-19 22:00 | 0.4 | 48 | Aug-21 | 0 | - | 0 | 0 | Aug 15, 2024 | |
| TRS (ppb) | 0.2 | 0.0 | 95.3% | 100.0% | 1.3 | 38 | Aug-14 20:00 | 0.6 | 5 | Aug-24 | 0 | - | 0 | - | Aug 15, 2024 | |
| Average | Minimum | Valid | Operational | Maximum | | | | | | | | | | | | |
| Temp (°C) | 16.7 | 4.8 | 100.0% | 100.0% | 30.8 | <div style="border: 1px solid black; padding: 2px;"> Note: Valid hours must be greater than 75% Operational hours must be greater than 90% </div> | | | | | | | | | | |
| WS (m/s/hr) | 10.2 | 0.3 | 100.0% | 100.0% | 35.9 | | | | | | | | | | | |
| WD (deg) | 247 | 1.1 | 100.0% | 100.0% | 359.8 | Average Wind Direction | | 247 | WNW | | | | | | | |

Update Summary:

| Parameter | Make | Model | Equipment summary |
|-------------------|--------|-----------|--|
| PM _{2.5} | Sharp | 5030 | Aug 11 power issue (1hr); Aug 14&15, filter tape stuck (6hrs); Aug 18 to 19, 27hr readings above AAQGG and 3x24hr readings above AAQDD |
| SO ₂ | TECO | 43i | Perm tube required replacement due to drooping spars, replaced Aug 15; Aug 28 confirmed spars (2hrs) |
| TRS | TEI | 43i/APSAA | No operational issues noted during the month |
| Met Equip | MetOne | 50.5 | No operational issues noted during the month |

1.5 Valleyview Air Monitoring Station

PAZA - August 2024 Valleyview Station Report

| Parameter | August | | | | 1-hour | | | 24-hour | | | Exceedance | | | Calibration Date | |
|------------------------|---------|---------|--------|-------------|---------|---|------------------|---------|-----------|---------|------------|-----|------|------------------|--------------|
| | Average | Minimum | Valid | Operational | Max | Objective | Max Day and Time | Max | Objective | Max Day | 1hr | 8hr | 24hr | | 30d |
| SO ₂ (ppb) | 0.1 | 0.0 | 95.3% | 100.0% | 2.1 | 172 | Aug-13 17:00 | 0.3 | 48 | Aug-31 | 0 | - | 0 | 0 | Aug 05, 2024 |
| H ₂ S (ppb) | 0.2 | 0.0 | 95.3% | 100.0% | 3.1 | 30 | Aug-18 23:00 | 0.6 | 3 | Aug-30 | 0 | - | 0 | - | Aug 05, 2024 |
| | Average | Minimum | Valid | Operational | Maximum | | | | | | | | | | |
| Temp (°C) | 16.7 | 6.9 | 100.0% | 100.0% | 31.7 | <div style="border: 1px solid black; padding: 5px;"> <p>Note: Valid hours must be greater than 75%</p> <p>Operational hours must be greater than 50%</p> </div> | | | | | | | | | |
| RH (%) | 74.7 | 26.2 | 100.0% | 100.0% | 100.1 | | | | | | | | | | |
| WS (km/hr) | 2.9 | 0.1 | 100.0% | 100.0% | 12.4 | | | | | | | | | | |
| WD (deg) | 275 | 0.4 | 100.0% | 100.0% | 359.4 | | | | | | | | | | |
| Average Wind Direction | | | | | | | | 275 | MW | | | | | | |

Update Summary:

| Parameter | Make | Model | Equipment summary |
|------------------|---------|-----------------|--|
| SO ₂ | TEI | 431-A75CB | No operational issues noted during the month |
| H ₂ S | TEI | 450-APH4A / 43C | No operational issues noted during the month |
| Met Equip | RMYoung | RMFB006 | No operational issues noted during the month |

1.6 Fox Creek Air Monitoring Station

PAZA - August 2024 Fox Creek Station Report

| Parameter | August | | | | 1-hour | | | 8-hour / 24-hour | | | Exceedance | | | Calibration Date | |
|--|---------|---------|--------|-------------|---------|---|------------------|------------------|-----------|---------|------------|-----|------|------------------|--------------|
| | Average | Minimum | Valid | Operational | Max | Objective | Max Day and Time | Max | Objective | Max Day | 1hr | 8hr | 24hr | | 30d |
| NO (ppb) | 4.2 | 0.0 | 95.2% | 100.0% | 35.7 | - | Aug-29 07:00 | 9.5 | - | Aug-26 | - | - | - | - | Aug 13, 2024 |
| NO ₂ (ppb) | 4.6 | 0.1 | 95.2% | 100.0% | 36.0 | 159 | Aug-11 20:00 | 8.7 | - | Aug-29 | 0 | - | - | - | Aug 13, 2024 |
| NO _x (ppb) | 9.2 | 0.2 | 95.2% | 100.0% | 55.8 | - | Aug-11 20:00 | 16.3 | - | Aug-26 | - | - | - | - | Aug 13, 2024 |
| O ₃ (ppb) | 20.5 | 0.0 | 95.3% | 100.0% | 53.7 | 78 | Aug-11 23:00 | 24.5 | - | Aug-29 | 0 | - | - | - | Aug 15, 2024 |
| PM _{2.5} (µg/m ³) | 15.1 | 0.9 | 99.6% | 100.0% | 125.9 | 80 | Aug-15 21:00 | 30.0 | 25 | Aug-25 | 3 | - | 1 | - | Aug 13, 2024 |
| SO ₂ (ppb) | 0.2 | 0.0 | 95.3% | 100.0% | 3.0 | 172 | Aug-31 09:00 | 0.7 | 48 | Aug-31 | 0 | - | 0 | 0 | Aug 13, 2024 |
| H ₂ S (ppb) | 0.2 | 0.0 | 95.2% | 100.0% | 2.3 | 30 | Aug-31 07:00 | 0.4 | 3 | Aug-31 | 0 | - | 0 | - | Aug 14, 2024 |
| | Average | Minimum | Valid | Operational | Maximum | | | | | | | | | | |
| Temp (°C) | 16.4 | 6.3 | 100.0% | 100.0% | 30.8 | <div style="border: 1px solid black; padding: 5px;"> <p>Note: Valid hours must be greater than 75%</p> <p>Operational hours must be greater than 50%</p> </div> | | | | | | | | | |
| WS (km/hr) | 4.8 | 0.2 | 100.0% | 100.0% | 15.9 | | | | | | | | | | |
| WD (deg) | 176 | 0.1 | 100.0% | 100.0% | 359.7 | | | | | | | | | | |
| Average Wind Direction | | | | | 176 | | | | | | | | | | |

Update Summary:

| Parameter | Make | Model | Equipment summary |
|-------------------------------------|--------|---------|--|
| NO/NO ₂ /NO _x | Thermo | 42IQ | No operational issues noted during the month |
| O ₃ | TECO | 491 | No operational issues noted during the month |
| PM _{2.5} | API | T640 | August 31 to 16, 5c1hr readings above AAAG0, 1c24hr readings above AAAG0 |
| SO ₂ | TEI | 431-TLE | No operational issues noted during the month |
| H ₂ S | TEI | 450 | No operational issues noted during the month |
| Met Equip | MetOne | 50-5 | No operational issues noted during the month |

1.7 Happy Valley Air Monitoring Station

PAZA - August 2024 Happy Valley Station Report

| Parameter | August | | | | 1-hour | | | 24-hour | | | Exceedance | | | | Calibration Date |
|---|----------------|----------------|--------------|--------------------|----------------|-----------|------------------|---------|-----------|---------|------------|-----|------|-----|------------------|
| | Average | Minimum | Valid | Operational | Max | Objective | Max Day and Time | Max | Objective | Max Day | 1hr | 8hr | 24hr | 30d | |
| NO (ppb) | 0.4 | 0.0 | 95.2% | 100.0% | 11.1 | - | Aug-13 17:00 | 2.5 | - | Aug-13 | - | - | - | - | Aug 07, 2024 |
| NO ₂ (ppb) | 2.4 | 0.2 | 91.2% | 100.0% | 19.4 | 150 | Aug-09 21:00 | 5.3 | - | Aug-09 | 0 | - | - | - | Aug 07, 2024 |
| NO _x (ppb) | 2.8 | 0.1 | 95.2% | 100.0% | 21.9 | - | Aug-08 08:00 | 7.9 | - | Aug-11 | - | - | - | - | Aug 07, 2024 |
| O ₃ (ppb) | 26.0 | 3.8 | 95.4% | 100.0% | 57.3 | 78 | Aug-10 18:00 | 39.9 | - | Aug-00 | 0 | - | - | - | Aug 07, 2024 |
| PM _{2.5} (µg/m ³) | 39.2 | 1.0 | 99.0% | 100.0% | 474.0 | 80 | Aug-13 18:00 | 215.9 | 29 | Aug-11 | 45 | - | 7 | - | Aug 06, 2024 |
| SO ₂ (ppb) | 0.5 | 0.0 | 95.3% | 100.0% | 13.3 | 172 | Aug-15 13:00 | 1.1 | 48 | Aug-25 | 0 | - | 0 | 0 | Aug 07, 2024 |
| TRS (ppb) | 0.4 | 0.1 | 95.3% | 100.0% | 5.4 | 10 | Aug-24 22:00 | 1.1 | 3 | Aug-11 | 0 | - | 0 | - | Aug 06, 2024 |
| THC (ppm) | 2.0 | 1.8 | 95.0% | 99.7% | 3.7 | - | Aug-07 05:00 | 2.3 | - | Aug-13 | - | - | - | - | Aug 06, 2024 |
| | Average | Minimum | Valid | Operational | Maximum | | | | | | | | | | |
| Temp (°C) | 16.3 | 5.3 | 100.0% | 100.0% | 30.0 | | | | | | | | | | |
| WS (km/hr) | 9.0 | 0.2 | 100.0% | 100.0% | 28.4 | | | | | | | | | | |
| WD (deg) | 243 | 0.8 | 100.0% | 100.0% | 338.8 | | | | | | | | | | |
| <p>Note: Valid hours must be greater than 75% Operational hours must be greater than 50%</p> <p>Average Wind Direction: 243 WSW</p> | | | | | | | | | | | | | | | |

Update Summary:

| Parameter | Make | Model | Equipment summary |
|-------------------------------------|--------|--------------|---|
| NO/NO ₂ /NO _x | TEI | 42i | No operational issues during the month |
| O ₃ | TEI | 45i | No operational issues during the month |
| PM _{2.5} | API | T690 | Aug 30 to 31, 45hr readings above AAQO and 7x24hr readings above AAQO |
| SO ₂ | TEI | 43i | No operational issues during the month |
| TRS | TEI | 43i | No operational issues during the month |
| THC | TEI | 55i / 51i-LT | Aug 1, drifting removed (2hrs) |
| Met Equip | MetOne | 50.5 | No operational issues during the month |

1.8 Milner Air Monitoring Station

PAZA - August 2024 Milner Station Report

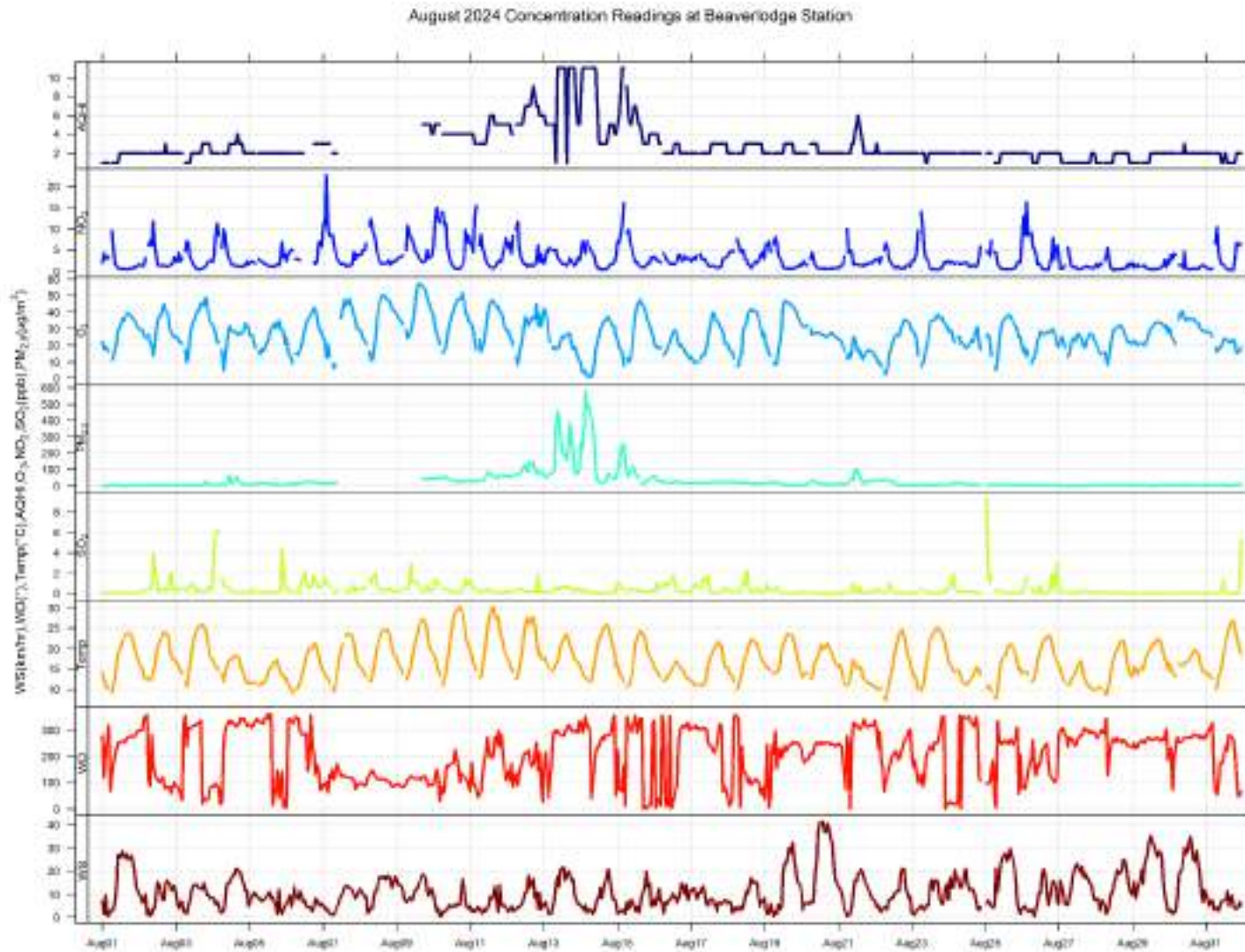
| Parameter | August | | | | 1-hour | | | 24-hour | | | Exceedance | | | | Calibration Date |
|---|----------------|----------------|--------------|--------------------|----------------|-----------|------------------|---------|-----------|---------|------------|-----|------|-----|------------------|
| | Average | Minimum | Valid | Operational | Max | Objective | Max Day and Time | Max | Objective | Max Day | 1hr | 8hr | 24hr | 30d | |
| NO (ppb) | 0.7 | 0.0 | 95.2% | 100.0% | 18.5 | - | Aug-02 07:00 | 2.2 | - | Aug-28 | - | - | - | - | Aug 28, 2024 |
| NO ₂ (ppb) | 3.8 | 0.0 | 93.2% | 100.0% | 11.3 | 150 | Aug-21 07:00 | 2.9 | - | Aug-31 | 0 | - | - | - | Aug 28, 2024 |
| NO _x (ppb) | 2.5 | 0.0 | 95.2% | 100.0% | 28.8 | - | Aug-02 07:00 | 4.2 | - | Aug-31 | - | - | - | - | Aug 28, 2024 |
| PM _{2.5} (µg/m ³) | 10.3 | 0.7 | 99.9% | 100.0% | 66.8 | 80 | Aug-12 14:00 | 37.7 | 29 | Aug-25 | 0 | - | 1 | - | Aug 28, 2024 |
| | Average | Minimum | Valid | Operational | Maximum | | | | | | | | | | |
| WS (km/hr) | 4.6 | 0.1 | 100.0% | 100.0% | 24.0 | | | | | | | | | | |
| WD (deg) | 248 | 0.3 | 100.0% | 100.0% | 338.7 | | | | | | | | | | |
| <p>Note: Valid hours must be greater than 75% Operational hours must be greater than 50%</p> <p>Average Wind Direction: 248 WSW</p> | | | | | | | | | | | | | | | |

Update Summary:

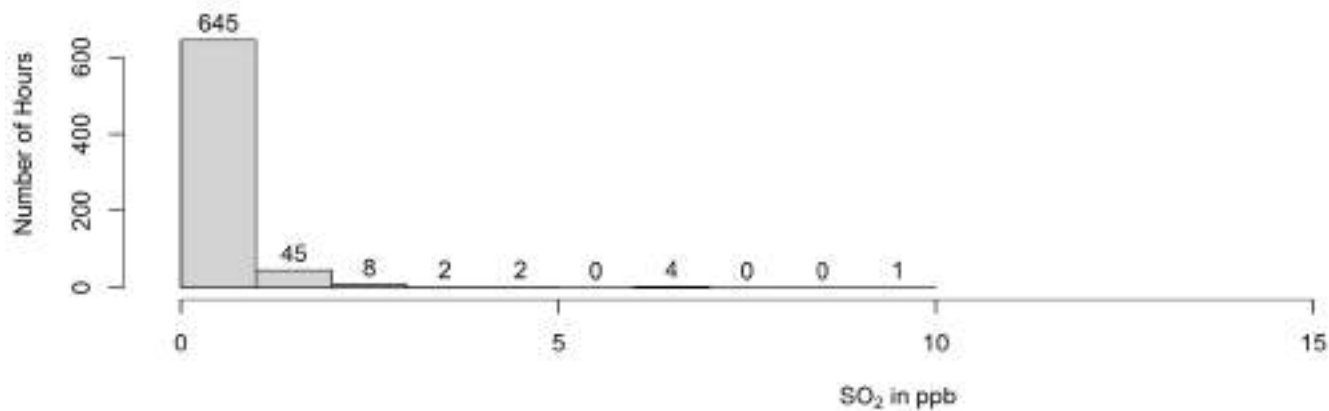
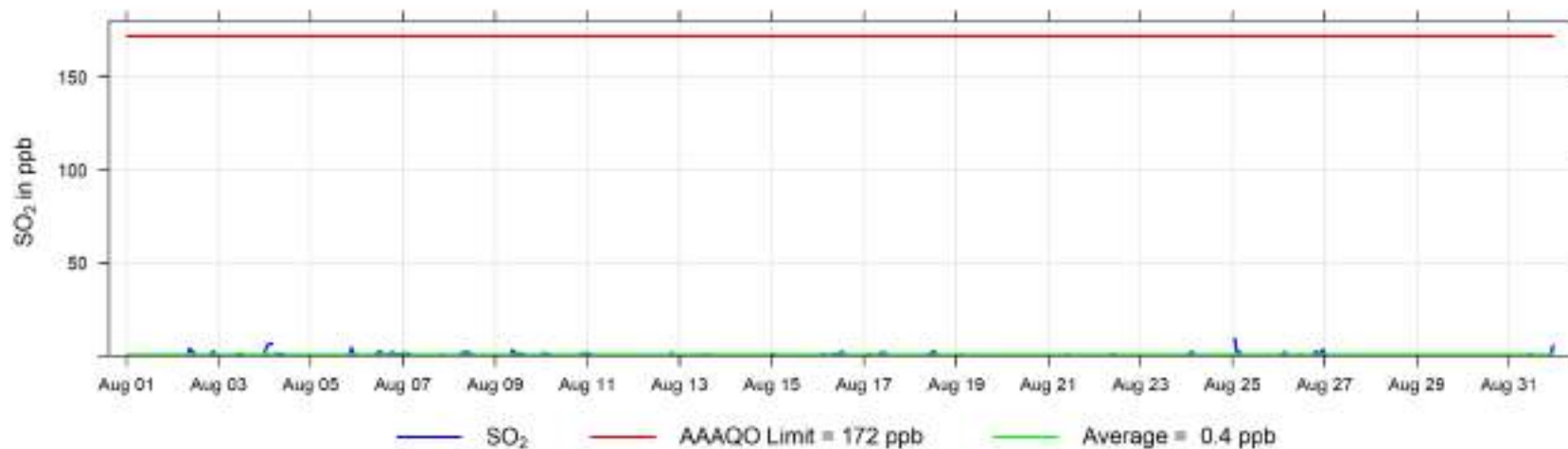
| Parameter | Make | Model | Equipment summary |
|-------------------------------------|--------|-------|--|
| NO/NO ₂ /NO _x | Thermo | 42i | No Operational issues noted during the month |
| PM _{2.5} | API | T690 | August 15, 1x24hr readings above AAQO |
| Met Equip | MetOne | 50.5 | No Operational issues noted during the month |

2 Beaverlodge Charts

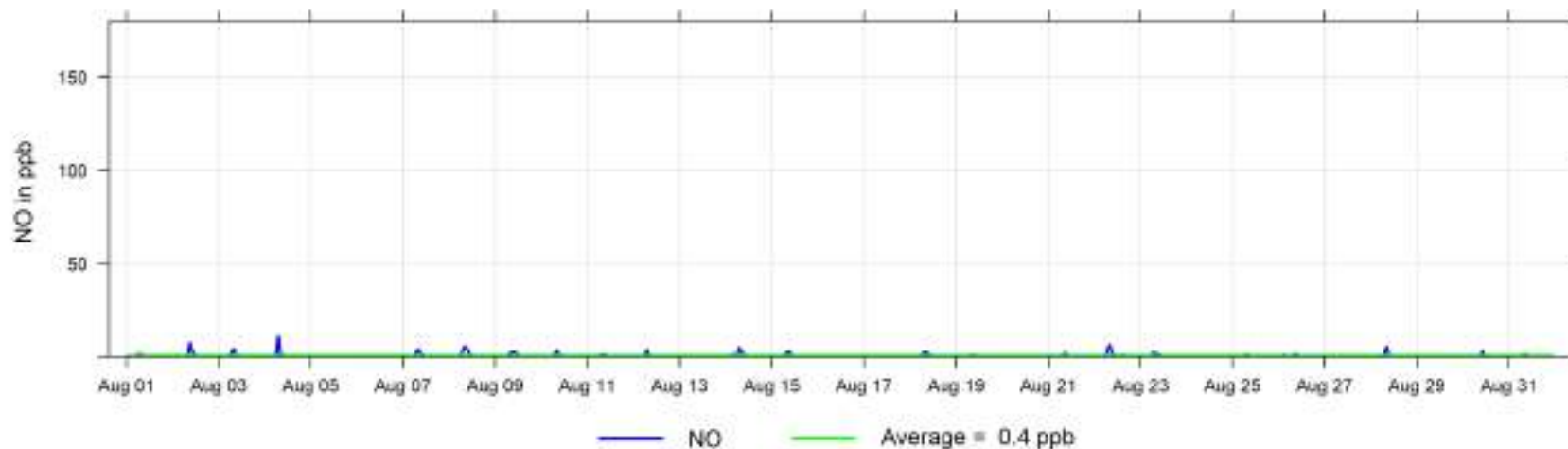
The following pages include the charts and histograms for Beaverlodge Station



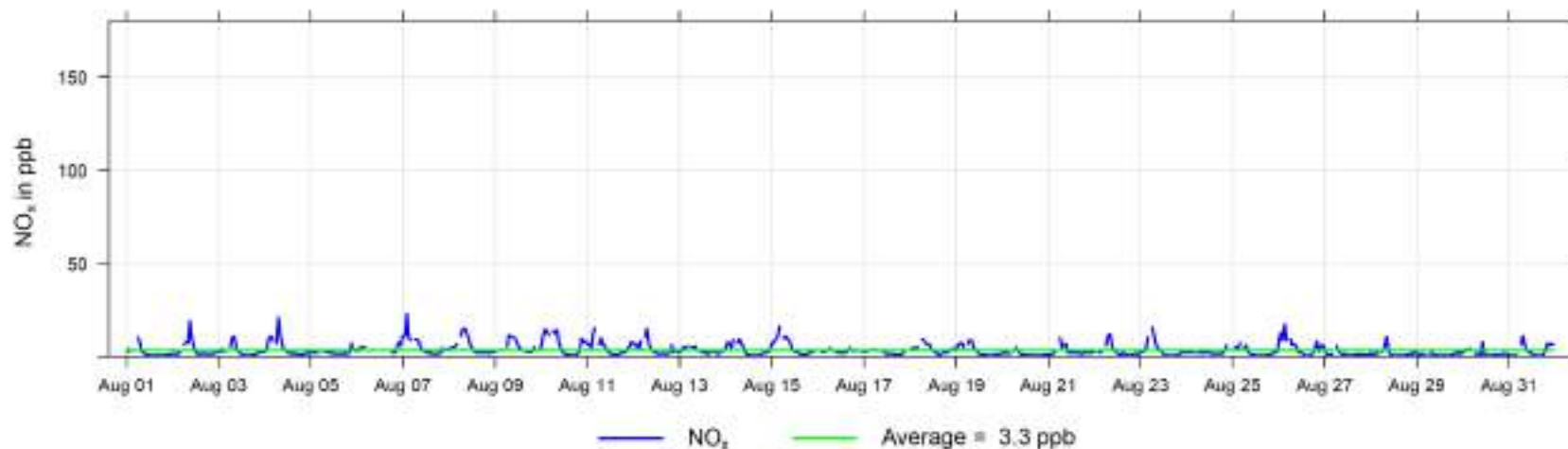
August 2024 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



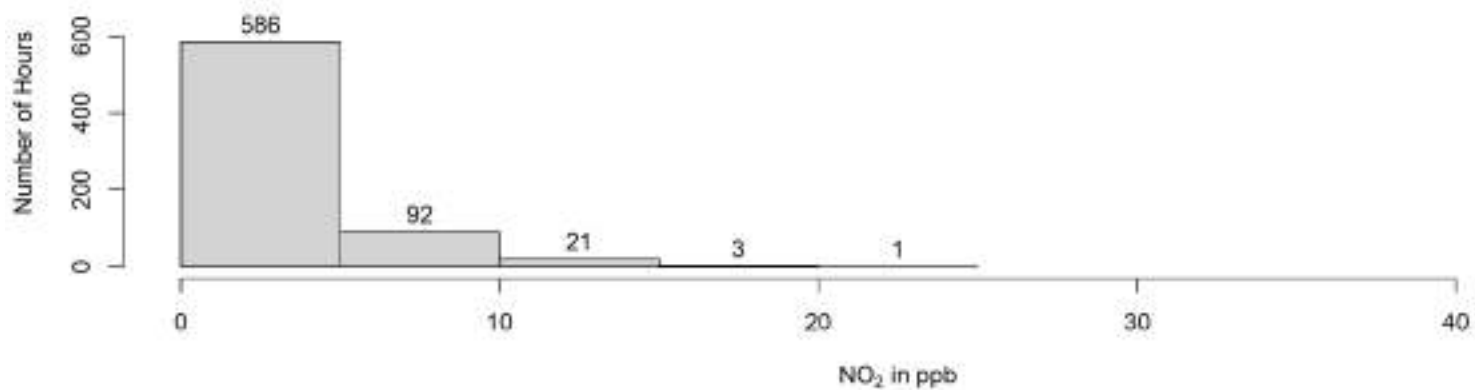
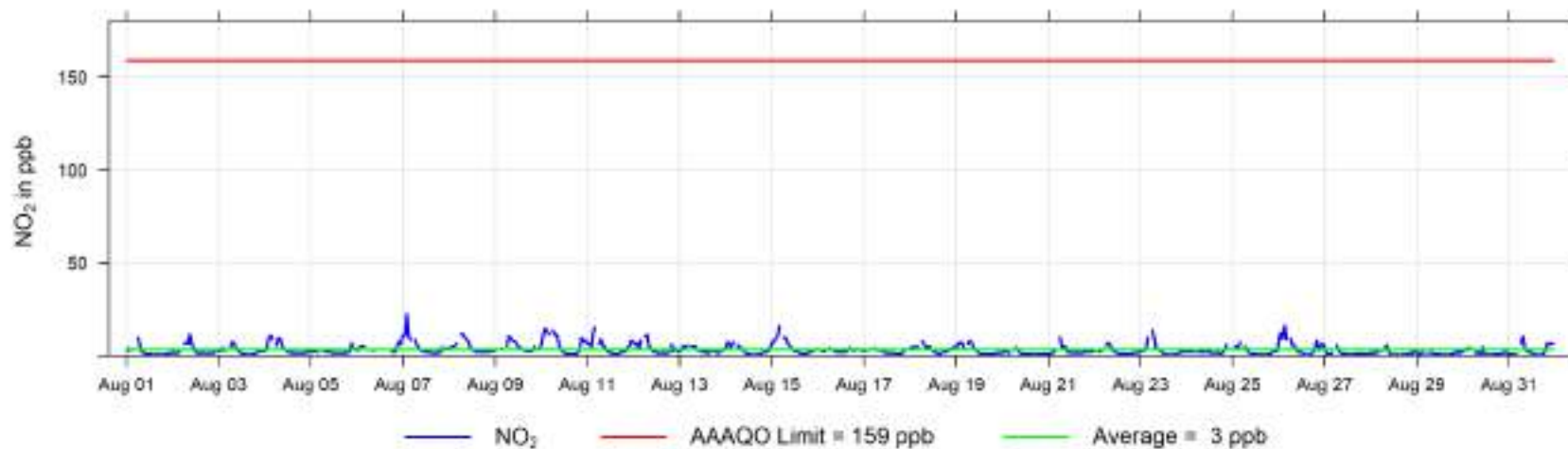
August 2024 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



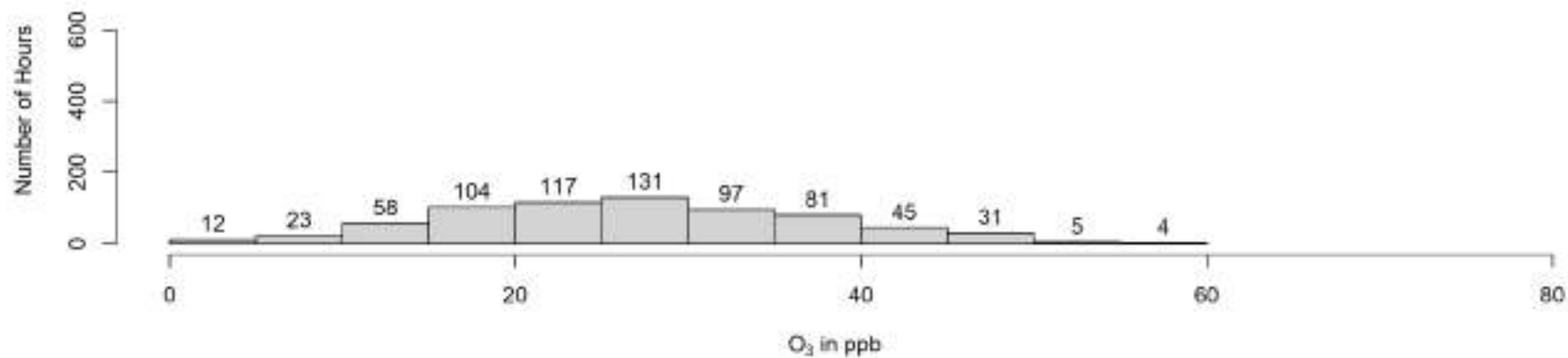
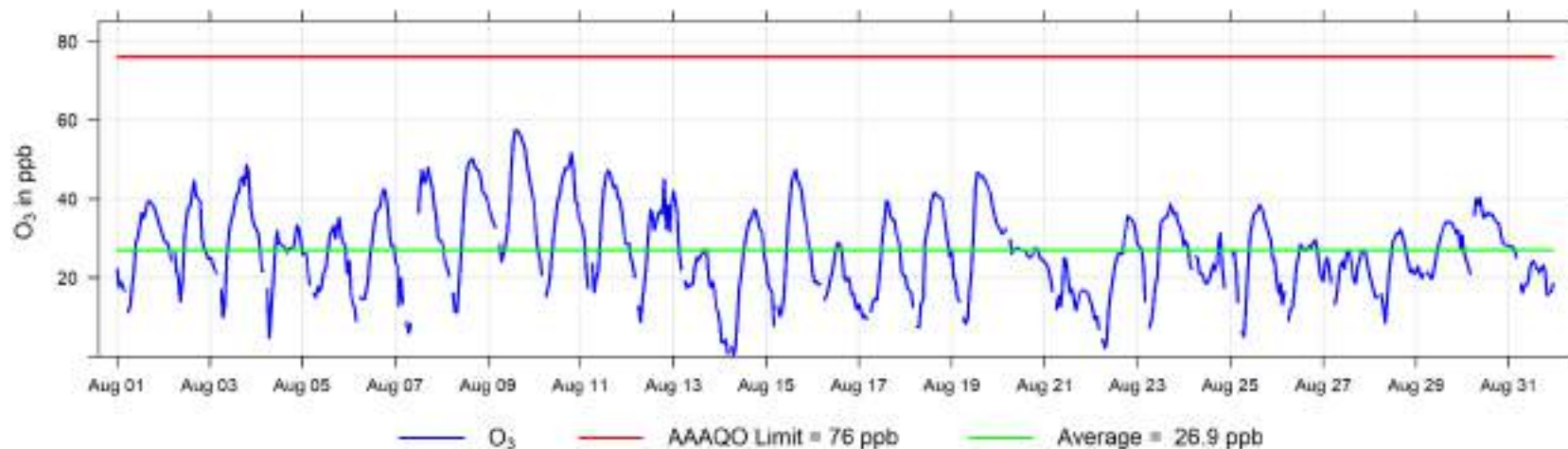
August 2024 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



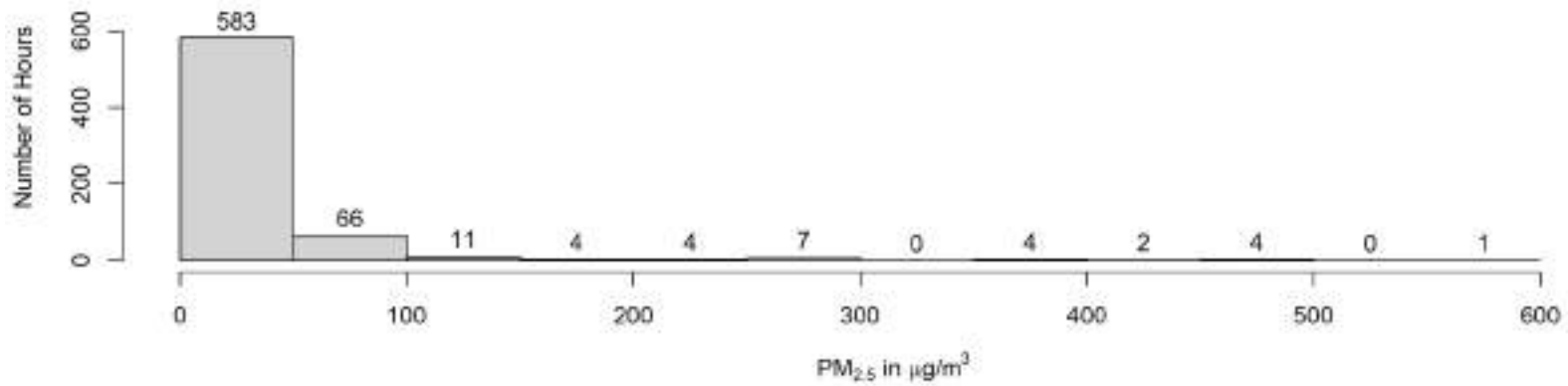
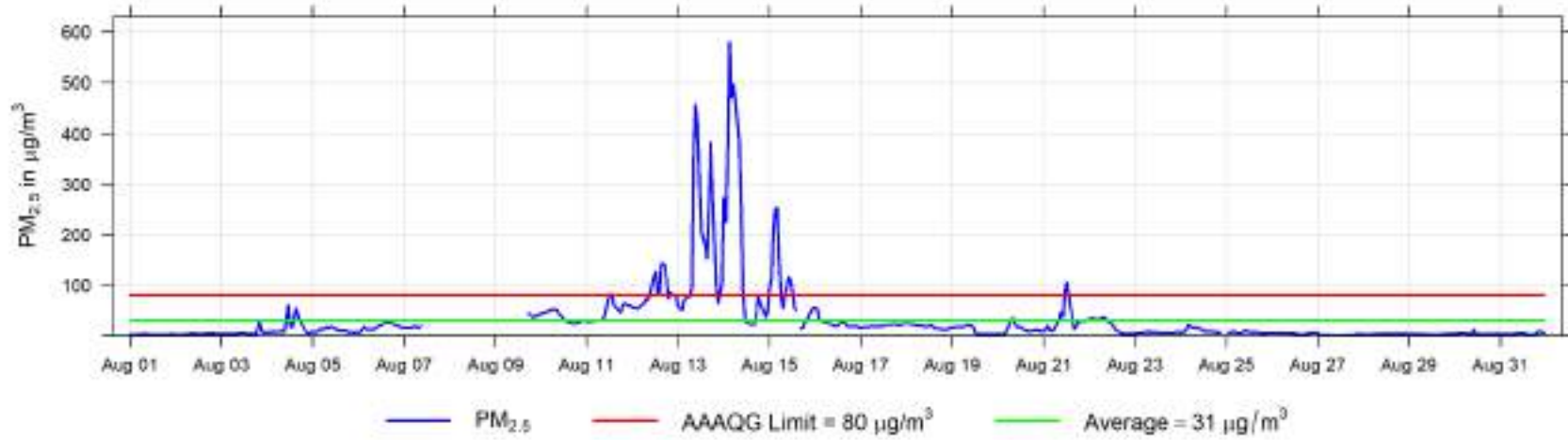
August 2024 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



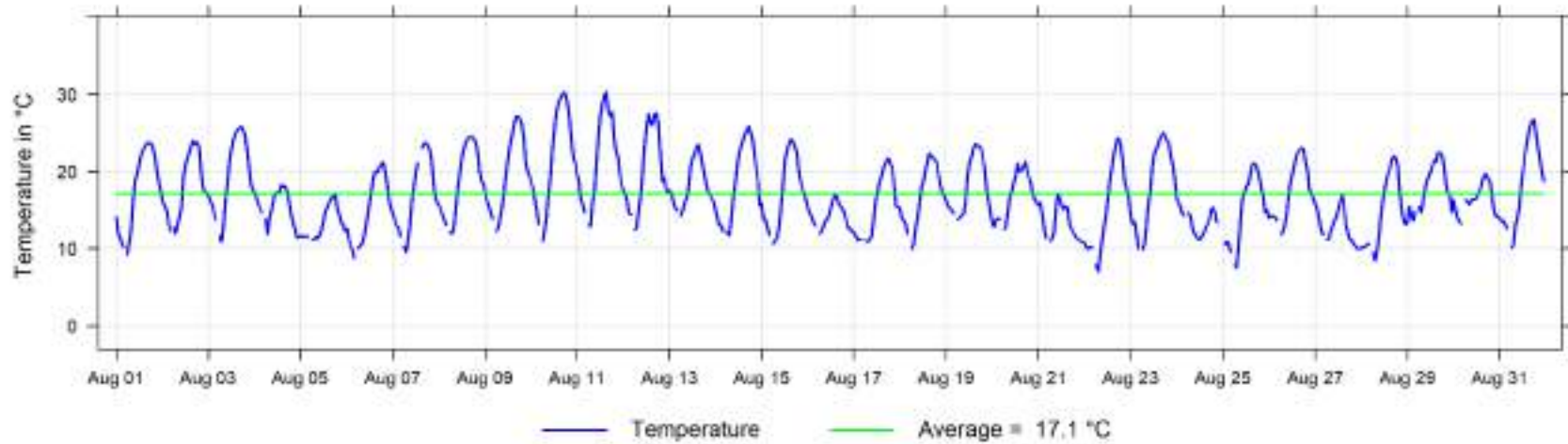
August 2024 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



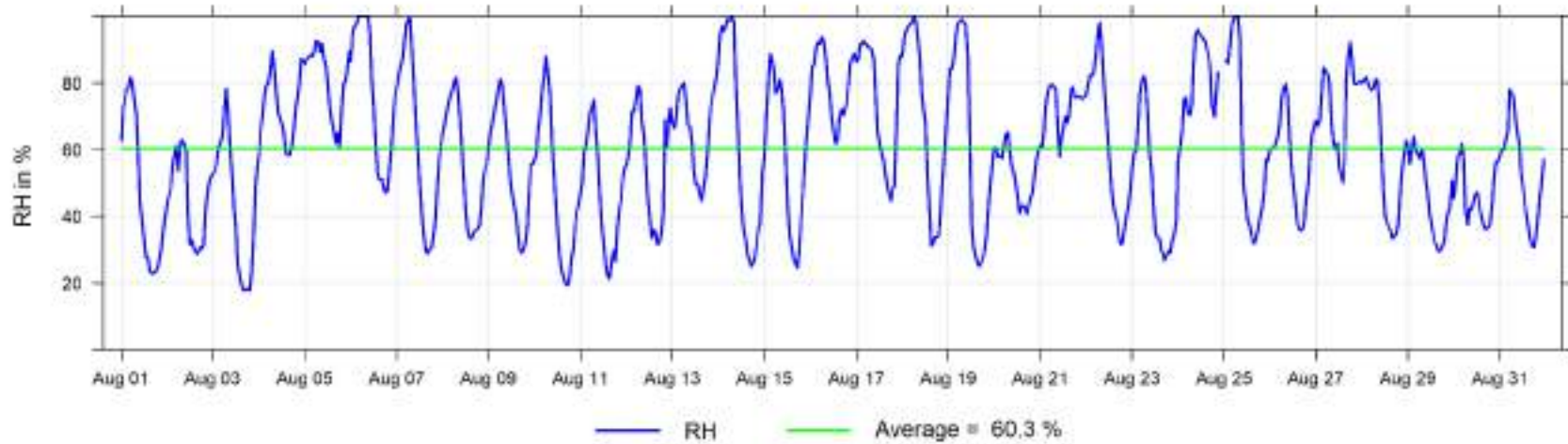
August 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



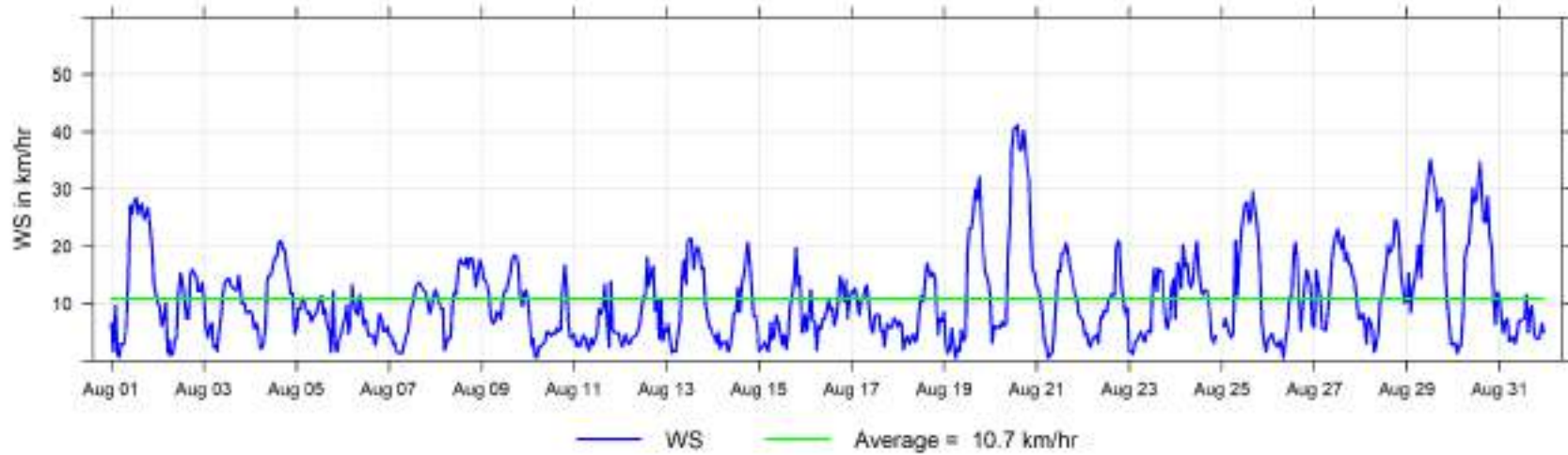
August 2024 Hourly Temperature Readings (in °C) at Beaverlodge



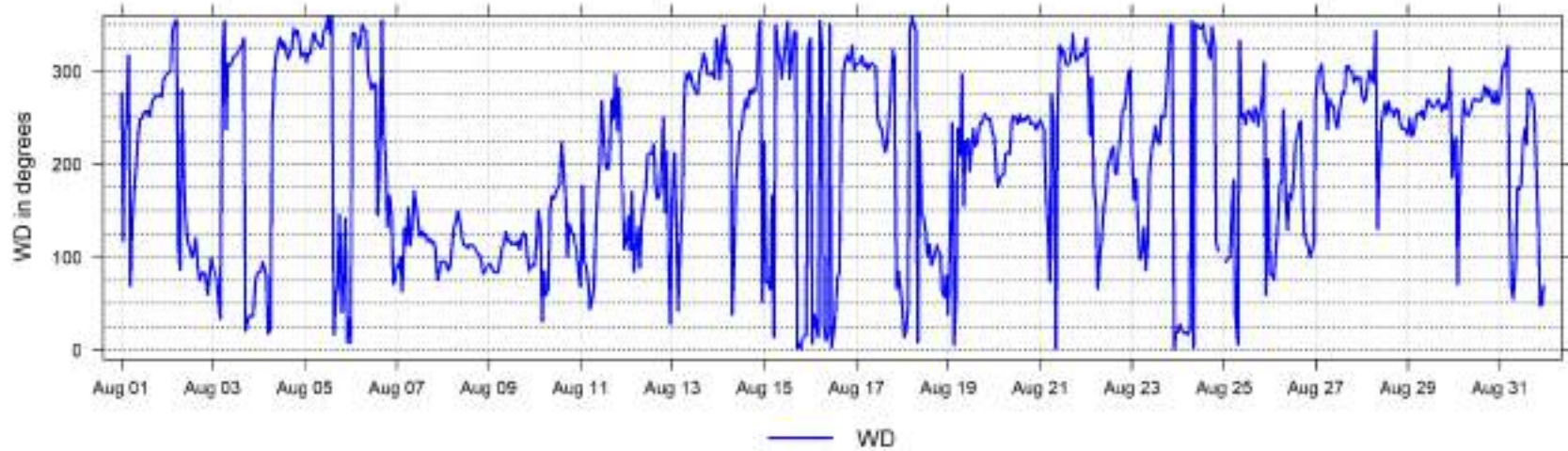
August 2024 Hourly Readings of Relative Humidity (in %) at Beaverlodge



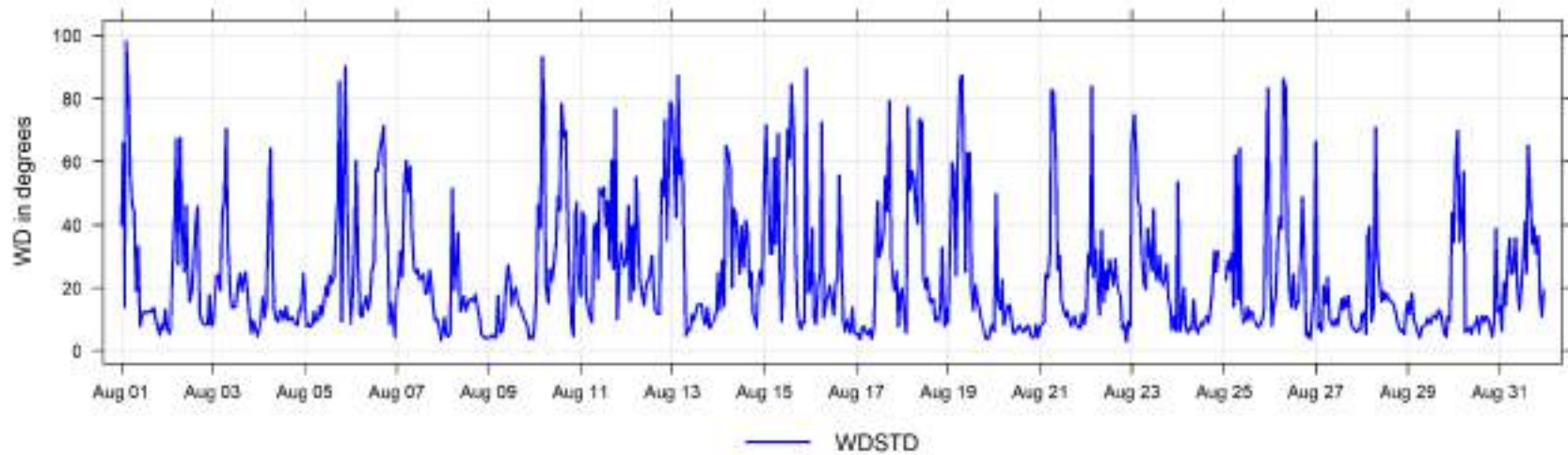
August 2024 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge

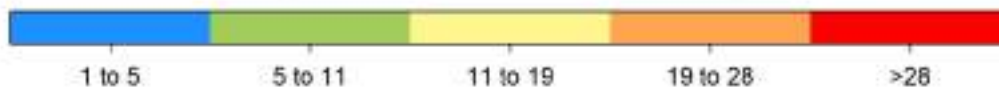
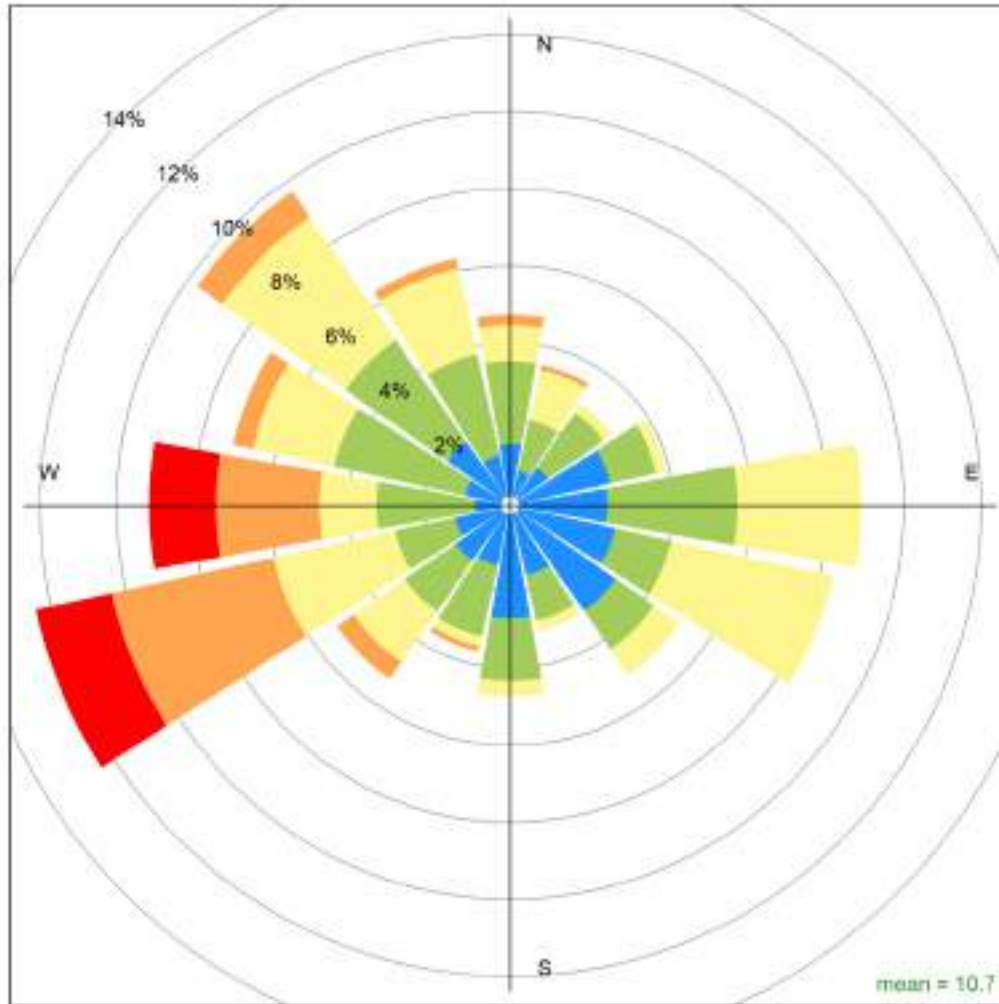


August 2024 Hourly Readings of Wind Direction (in degrees) at Beaverlodge



August 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge





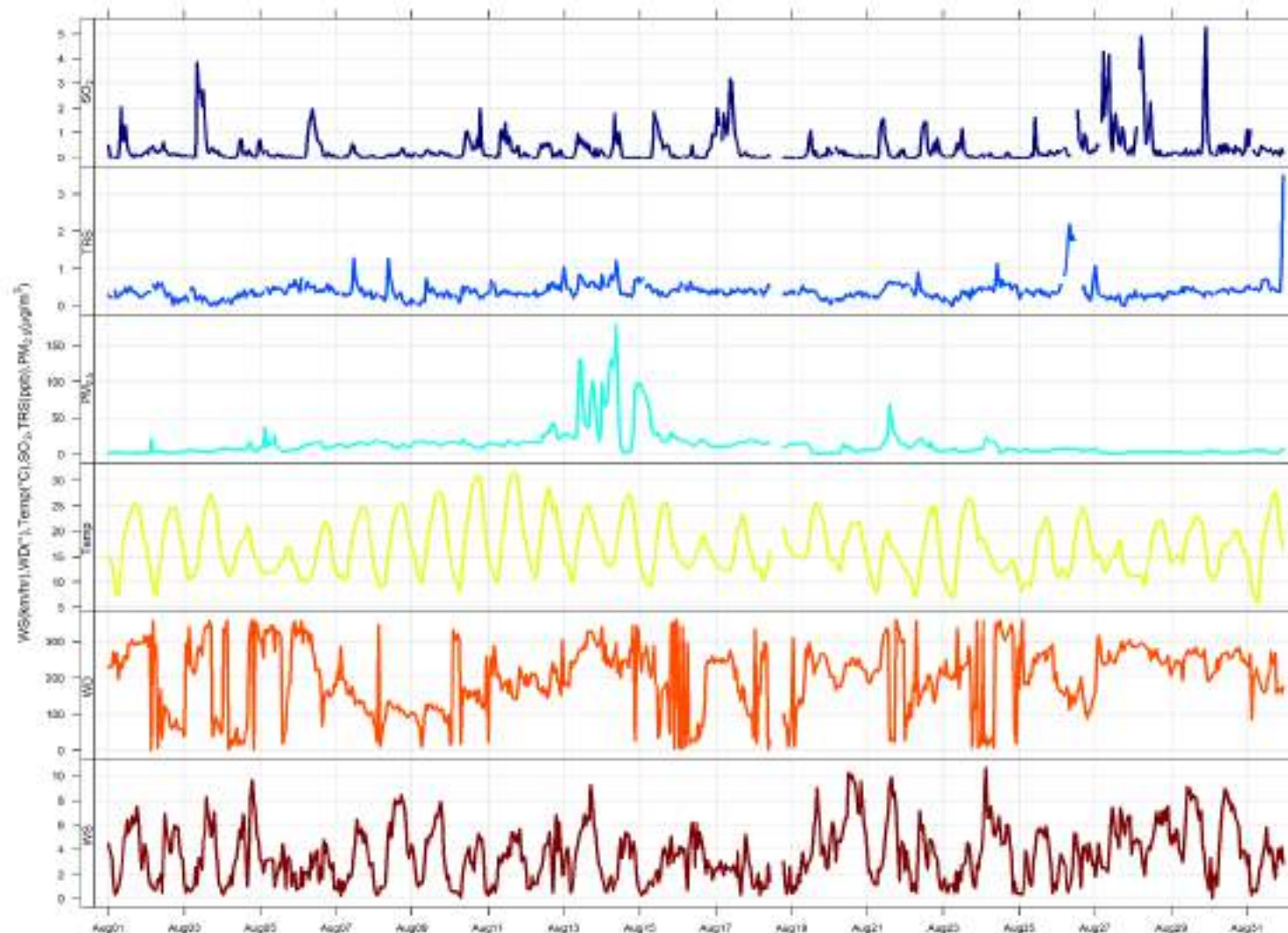
Beaverlodge August 2024 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 1.1 %

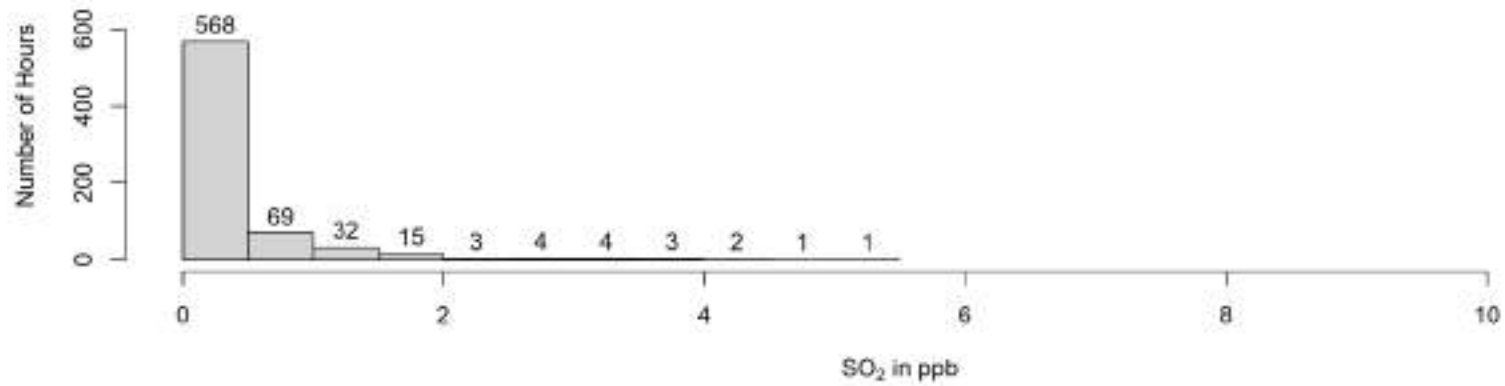
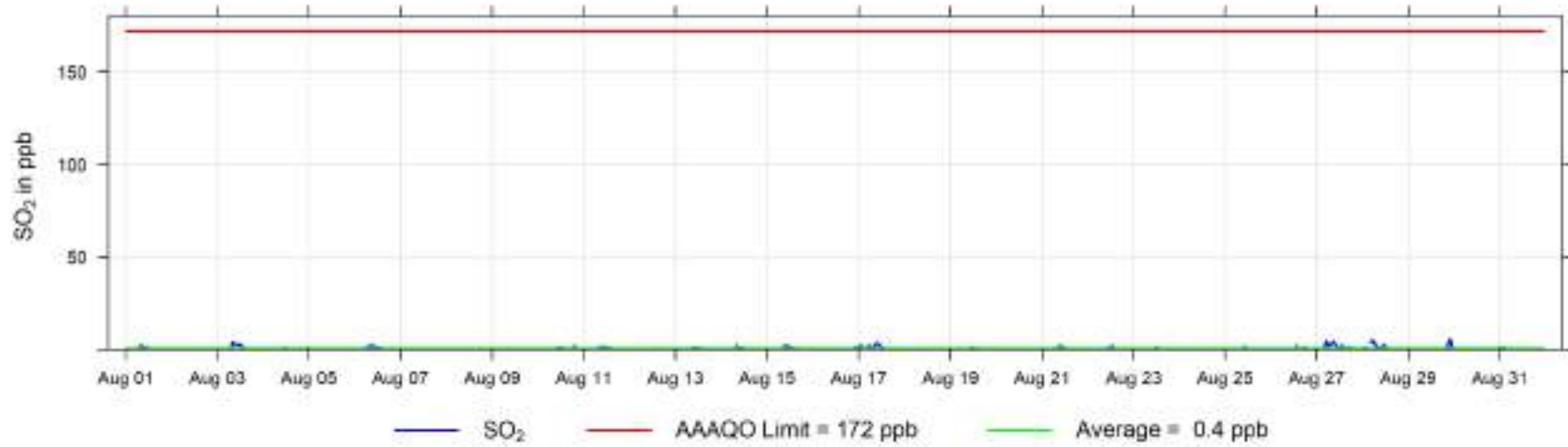
3 Dunes Charts

The following pages include the charts and histograms for Dunes Station

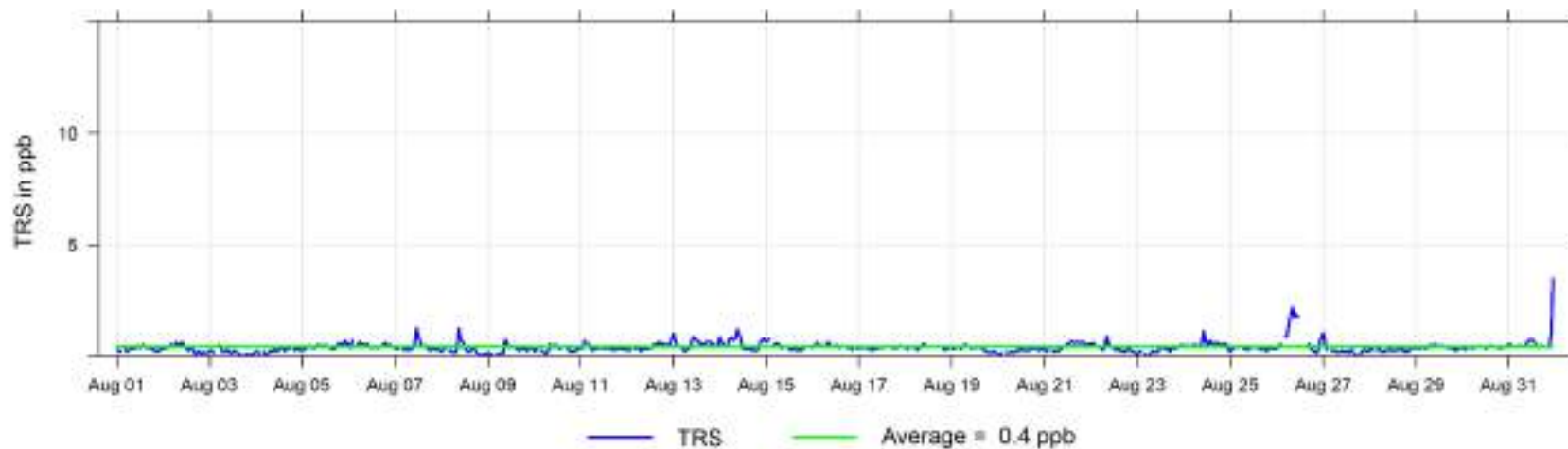
August 2024 Concentration Readings at Dunes Station



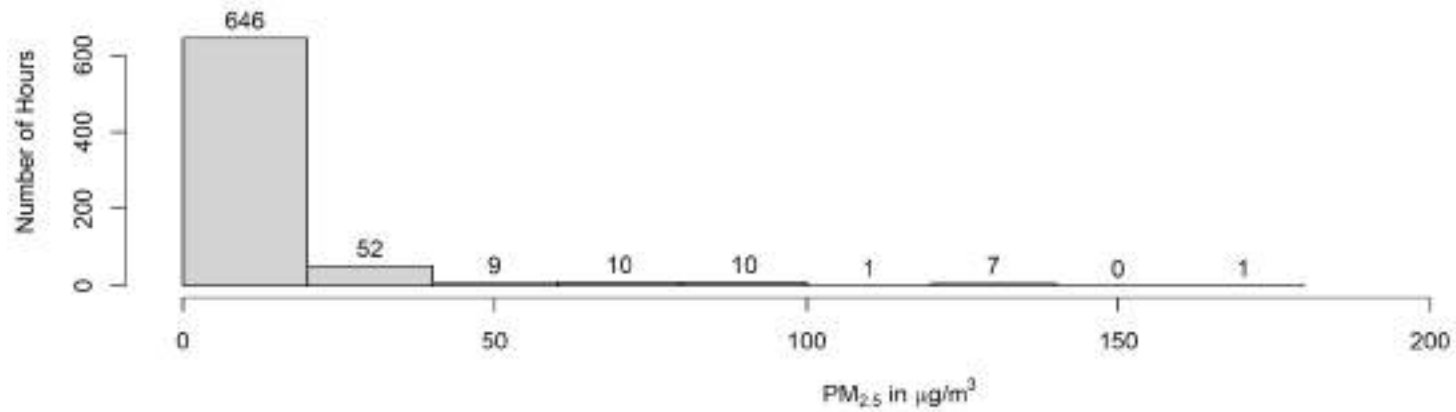
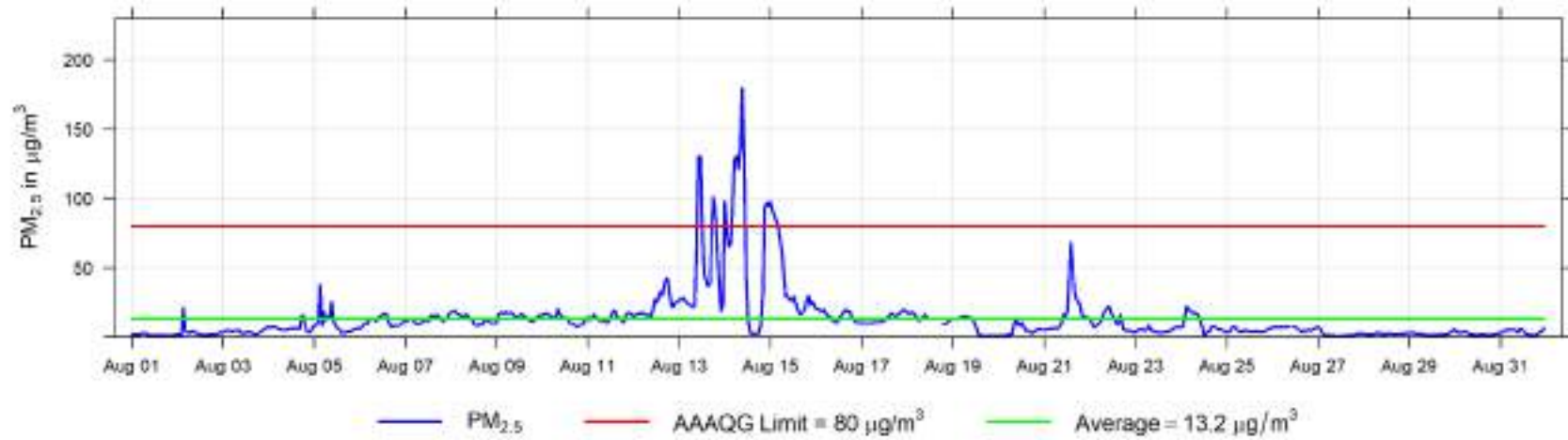
August 2024 Hourly Concentration Readings of SO₂ (in ppb) at Dunes



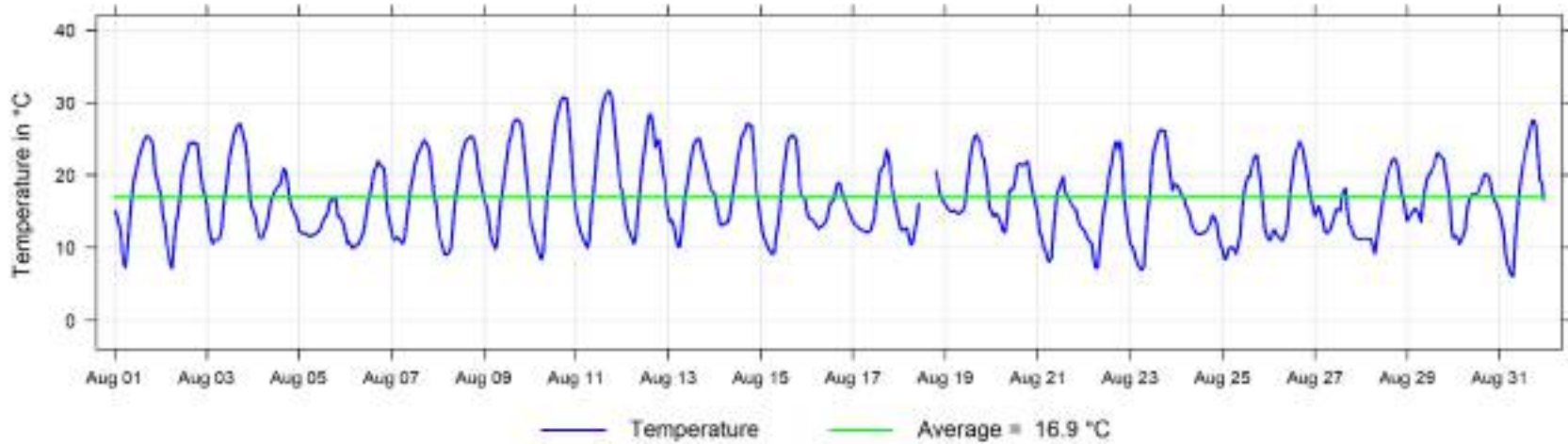
August 2024 Hourly Concentration Readings of TRS (in ppb) at Dunes



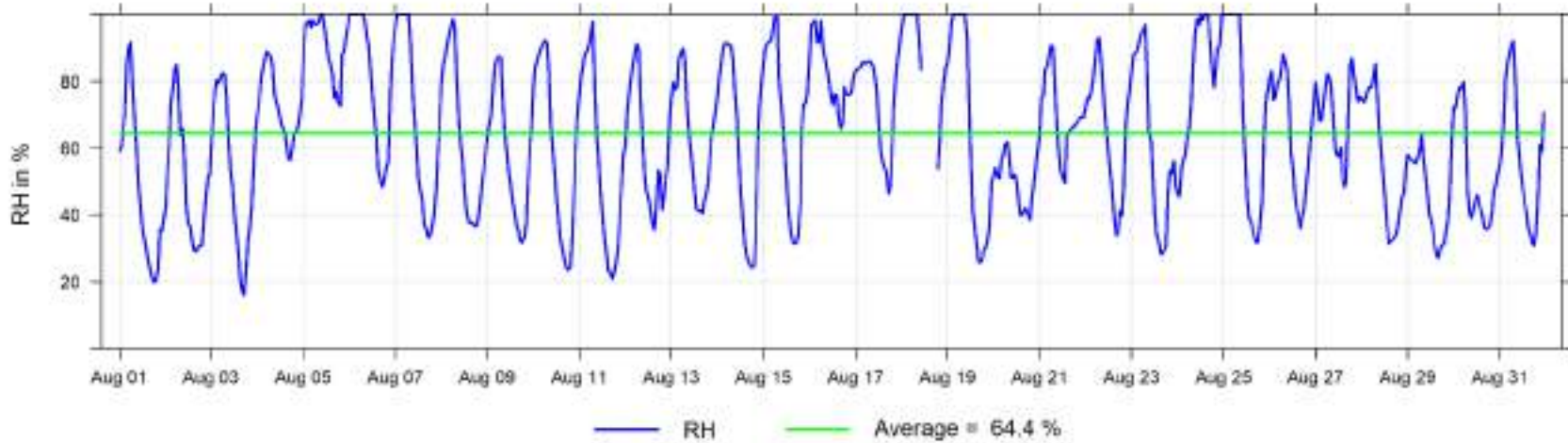
August 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes



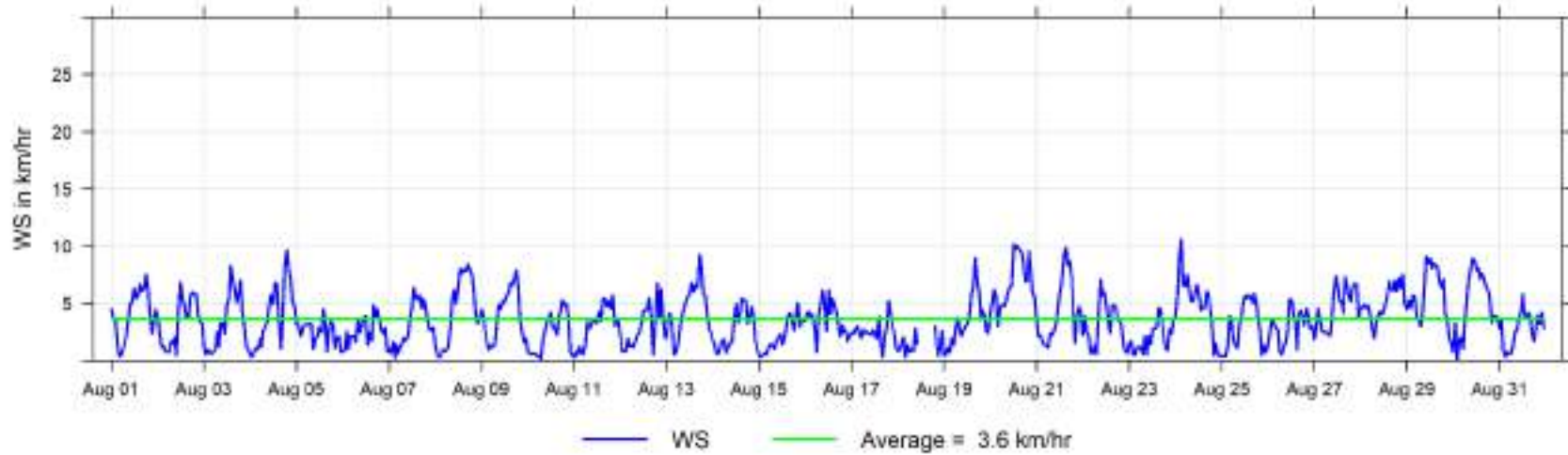
August 2024 Hourly Temperature Readings (in °C) at Dunes



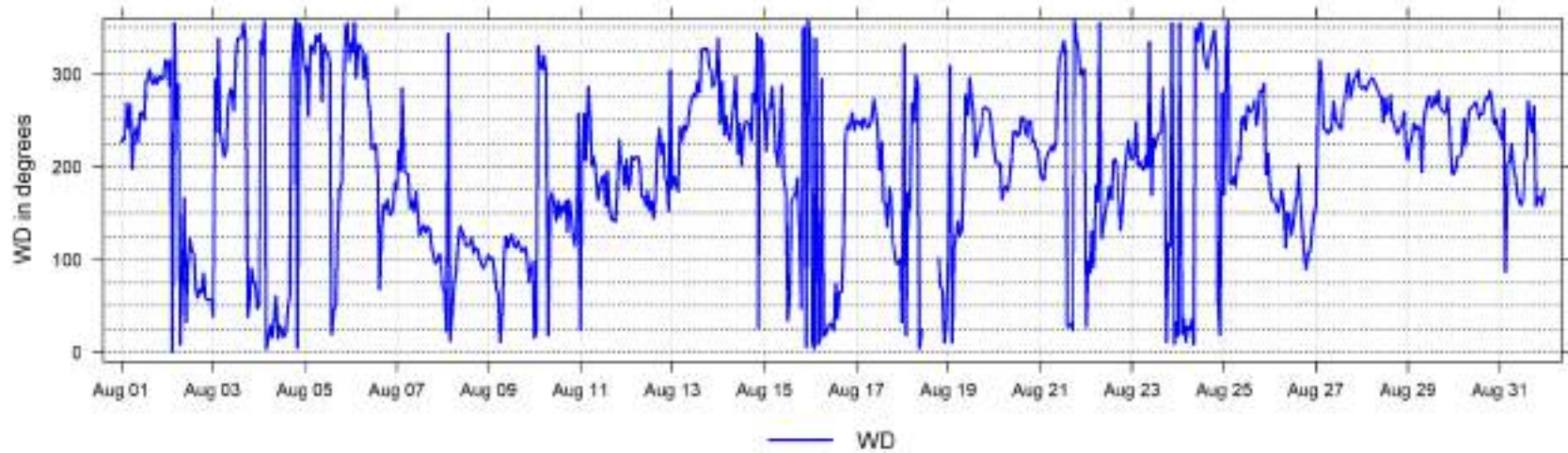
August 2024 Hourly Readings of Relative Humidity (in %) at Dunes



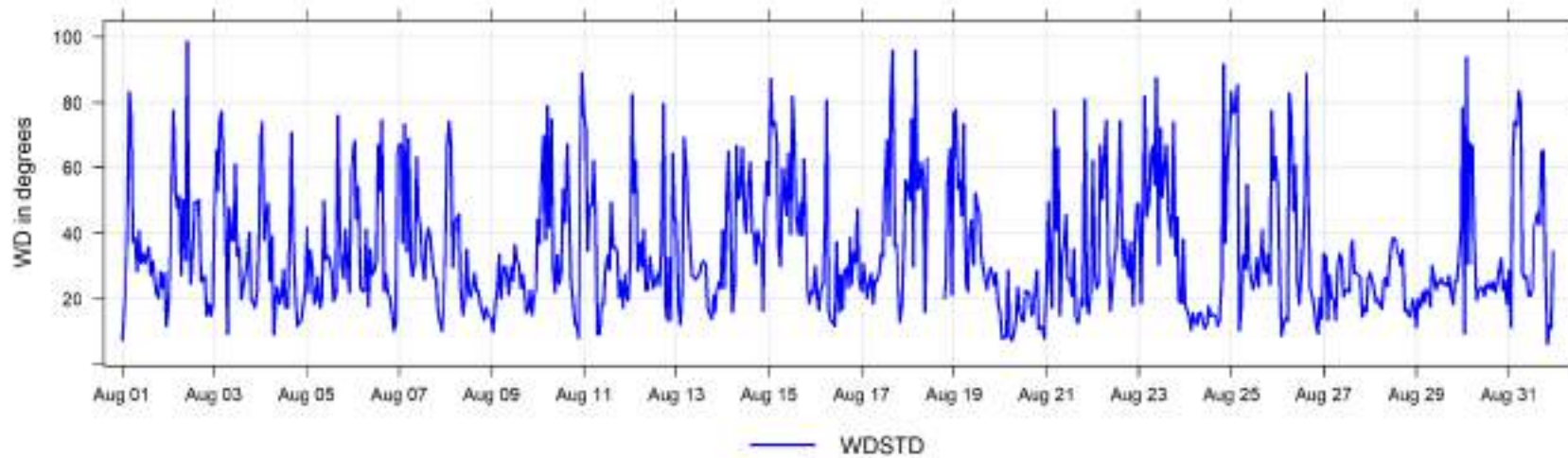
August 2024 Hourly Readings of Wind Speed (in km/hr) at Dunes

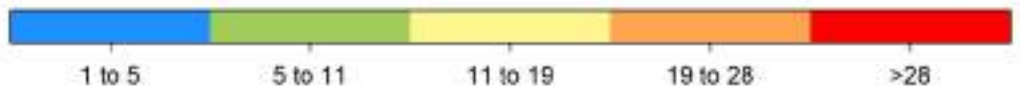
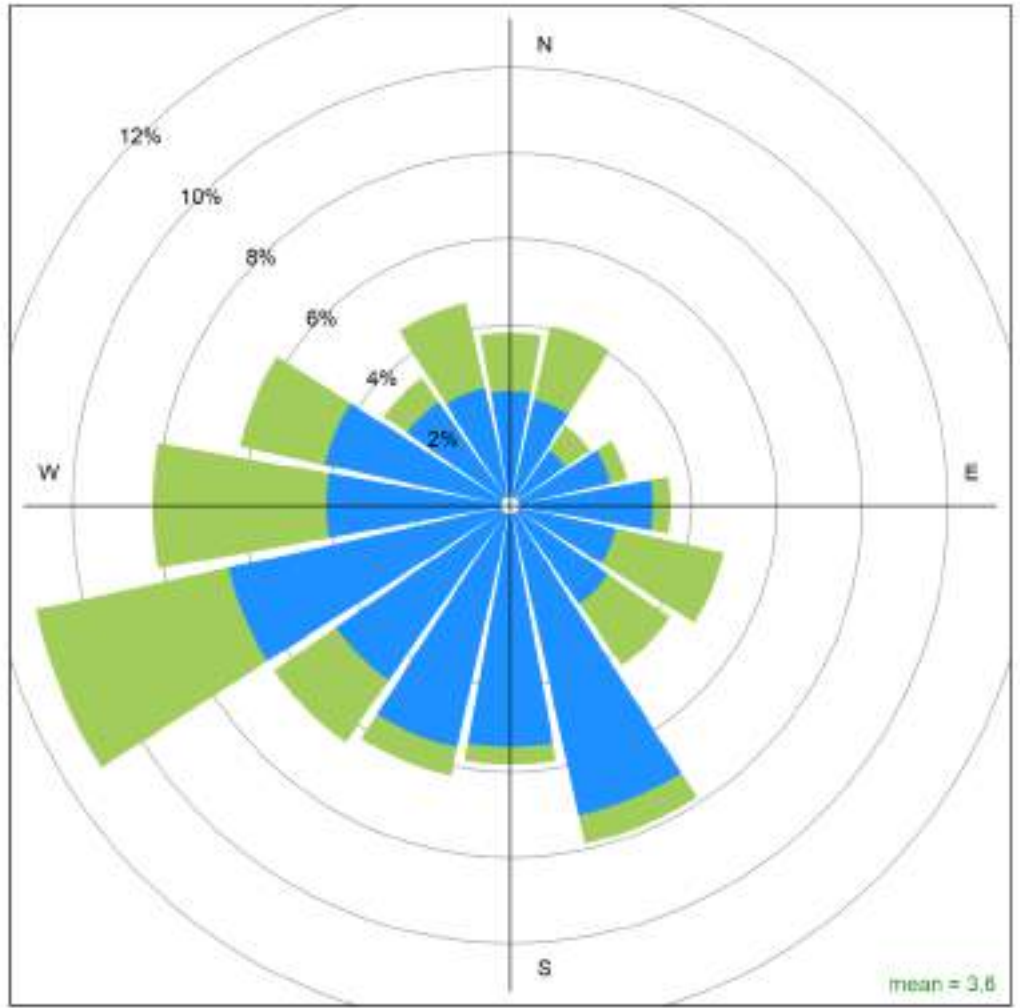


August 2024 Hourly Readings of Wind Direction (in degrees) at Dunes



August 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Dunes



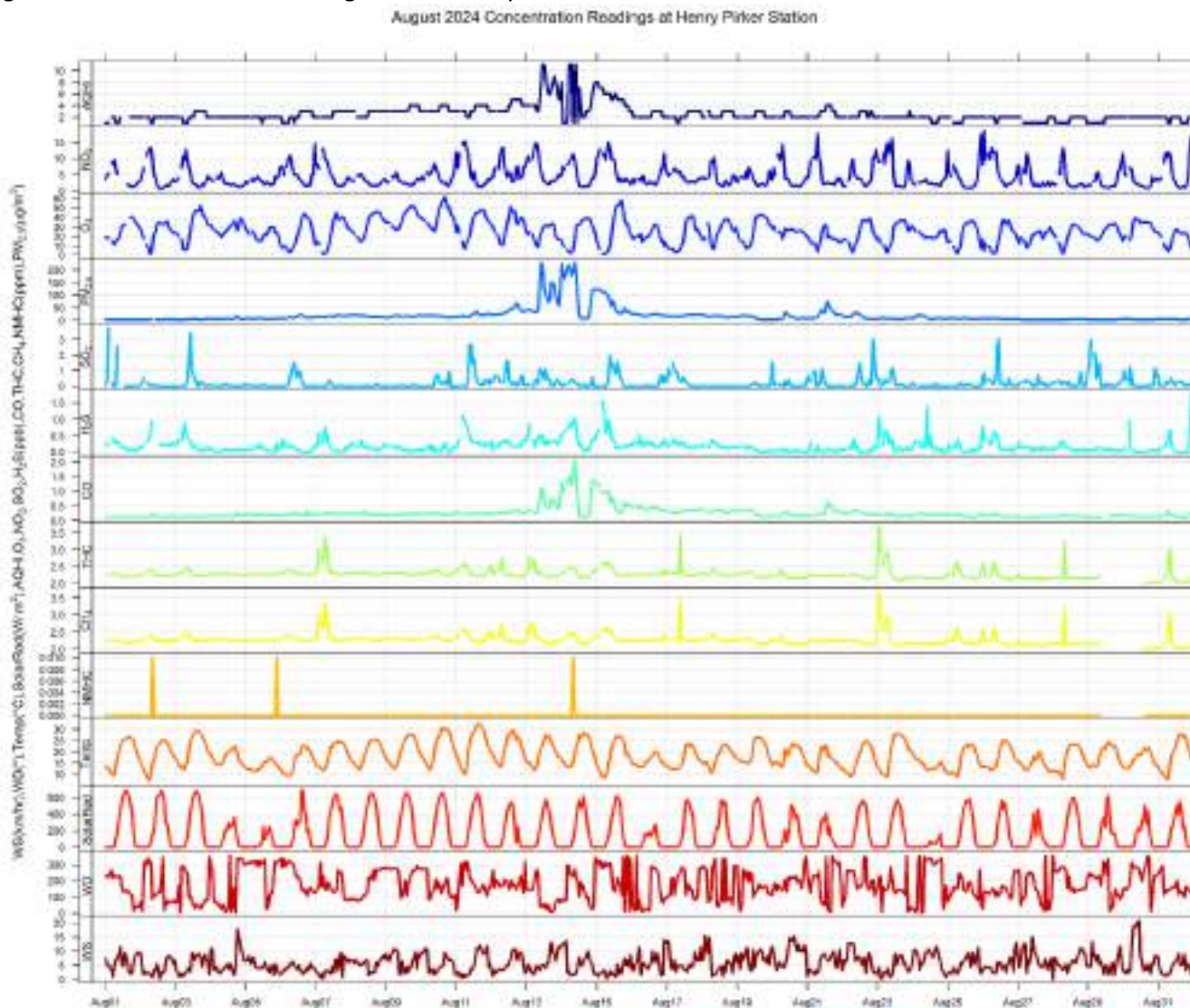


Dunes August 2024 Wind Rose, wind speed in km/hr

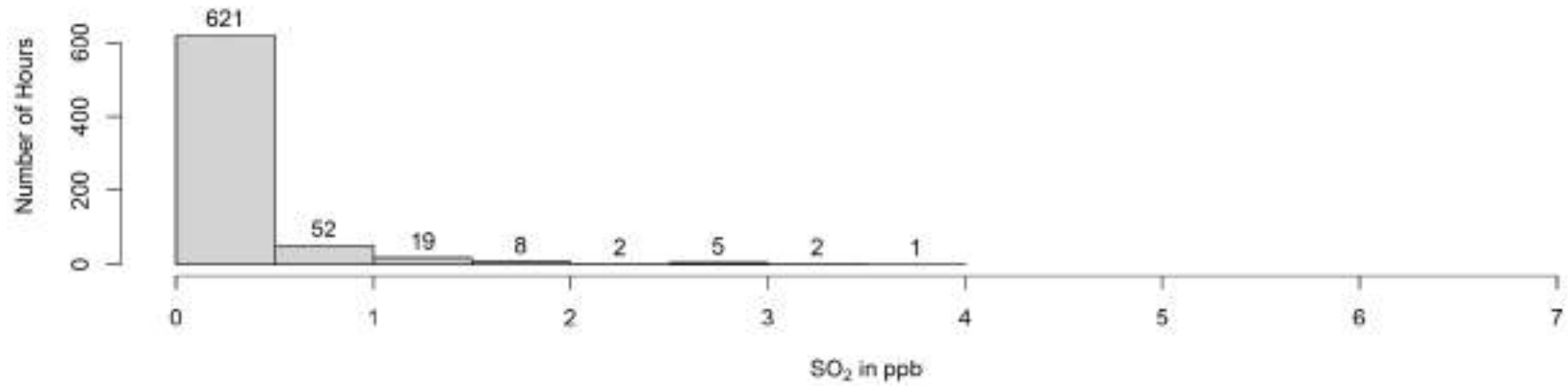
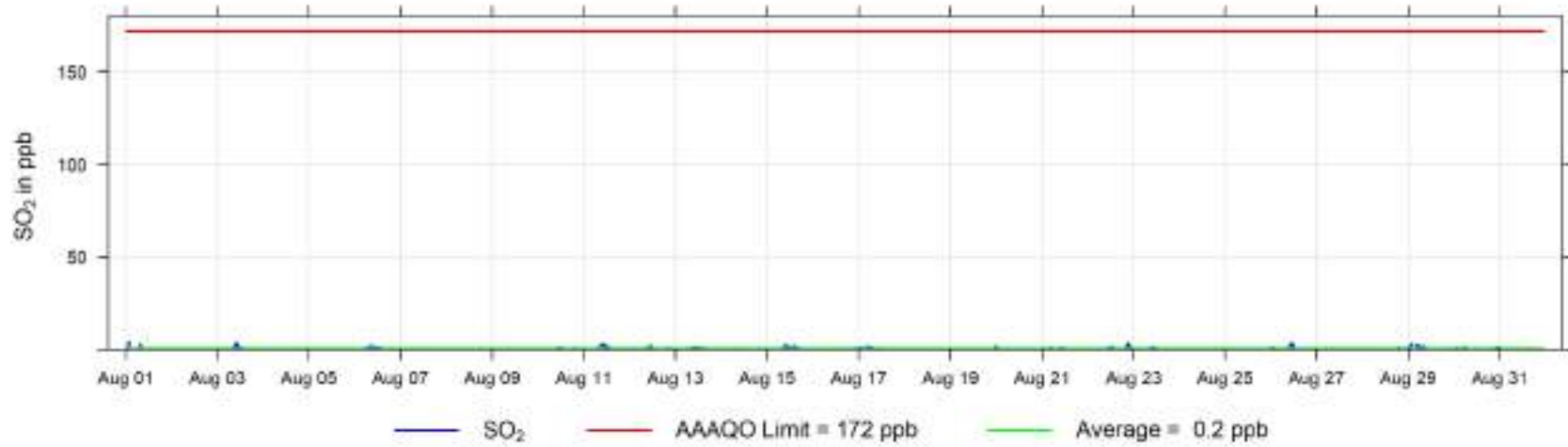
Calms (<1km/hr) = 14.8 %

4 Grande Prairie - Henry Pirker Charts

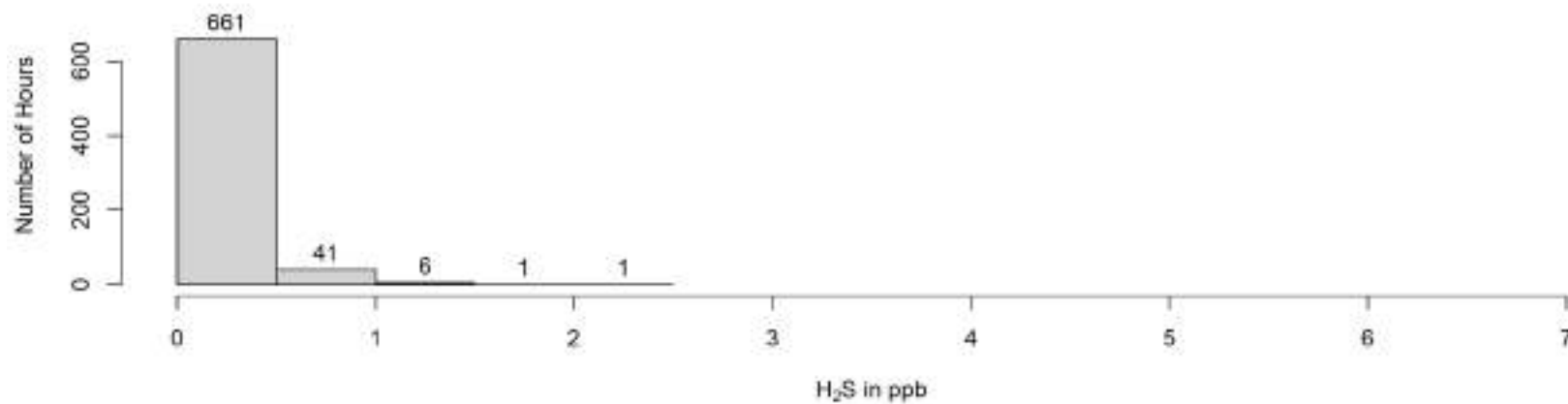
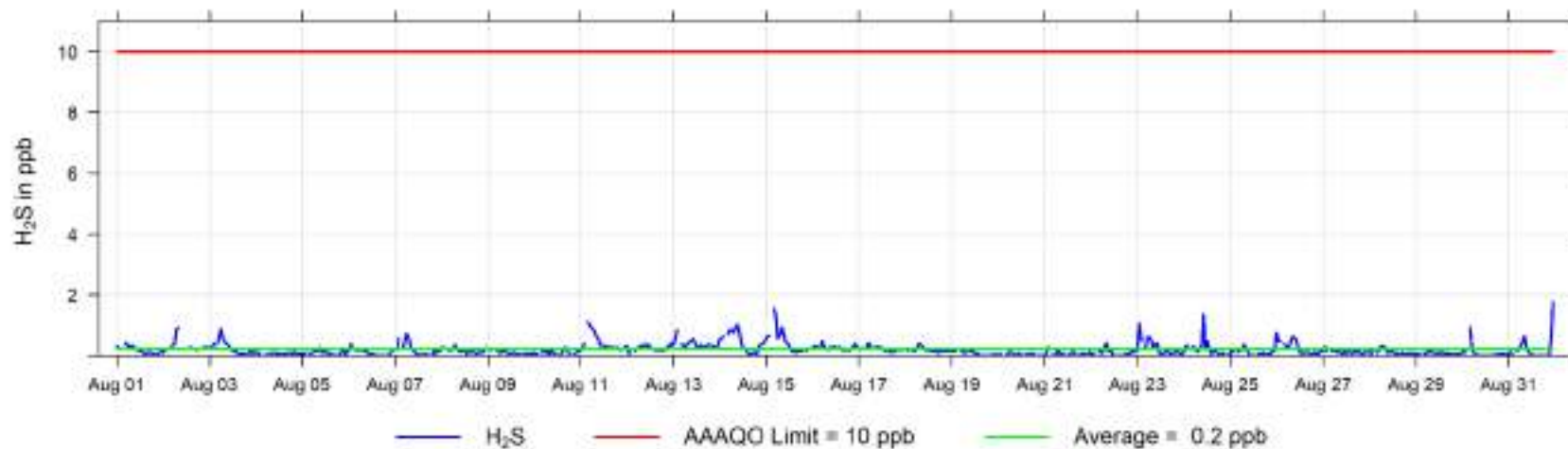
The following pages include the charts and histograms for Henry Pirker Station in Grande Prairie



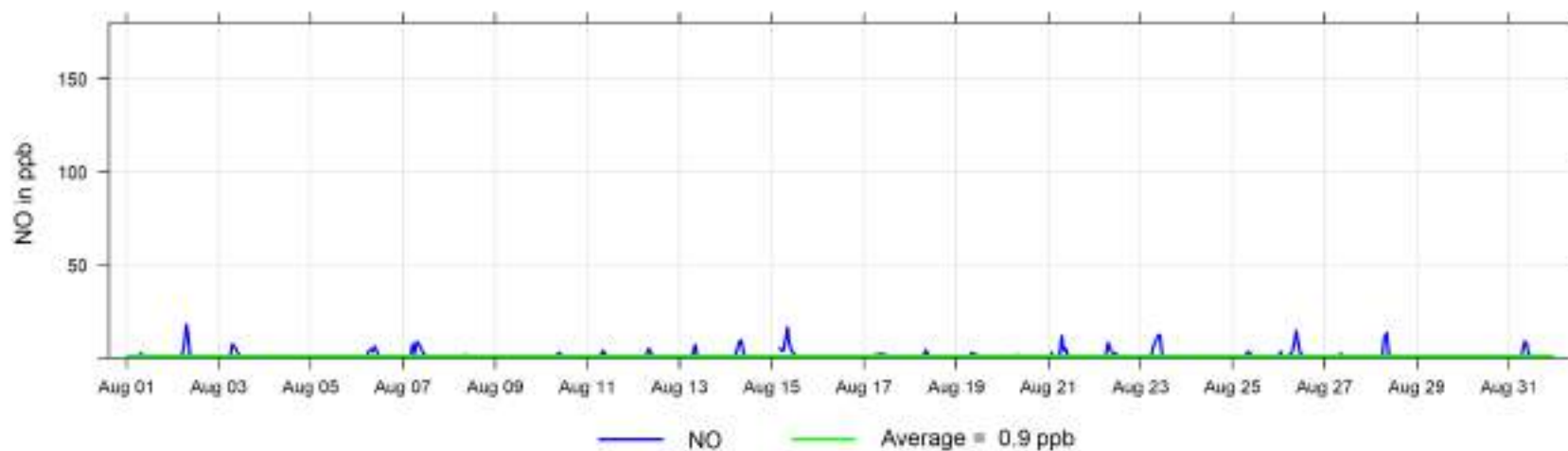
August 2024 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



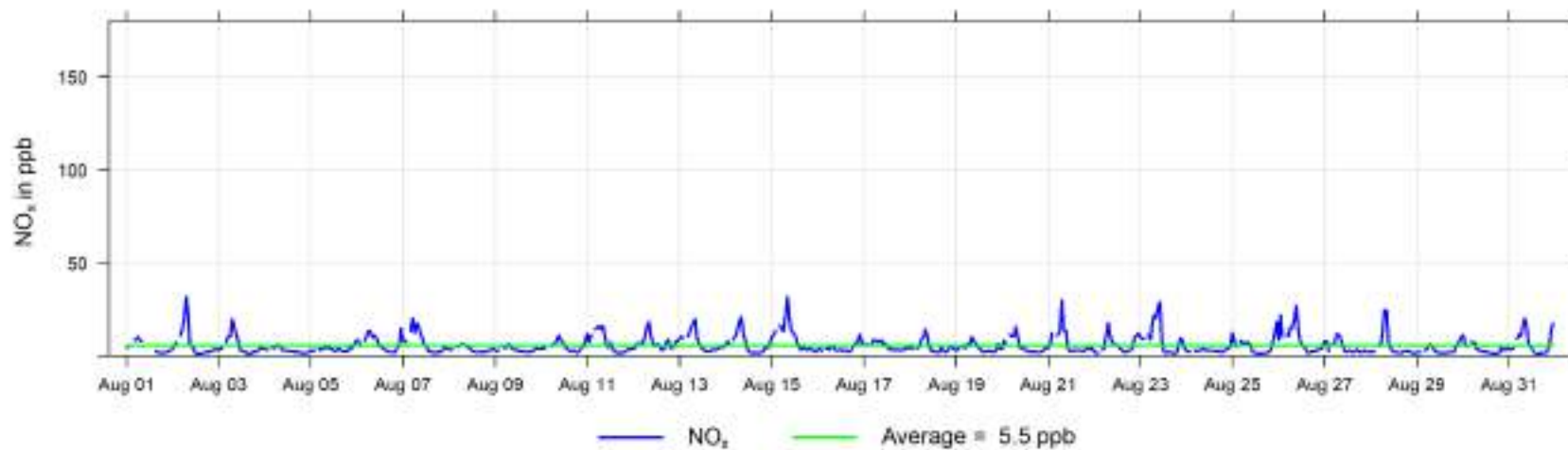
August 2024 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



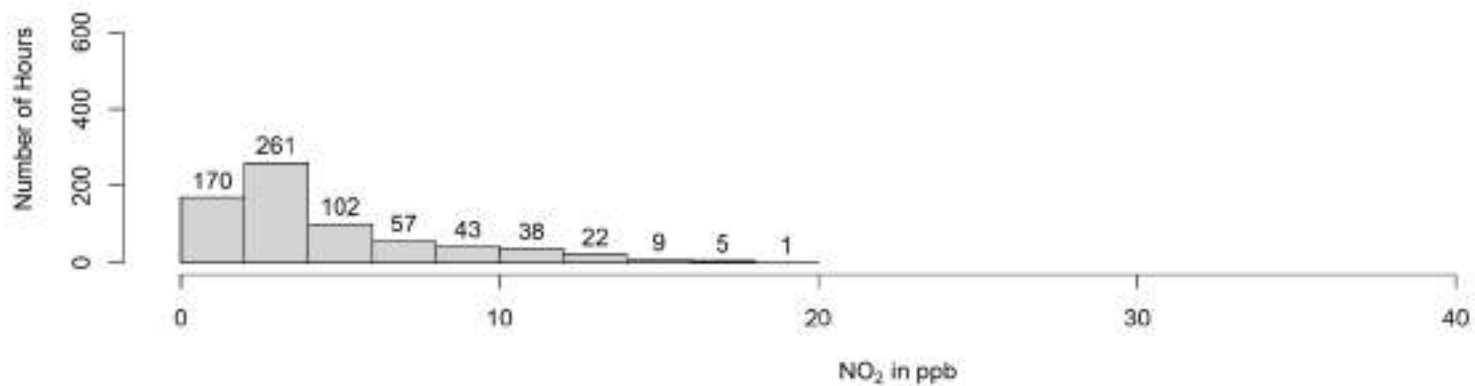
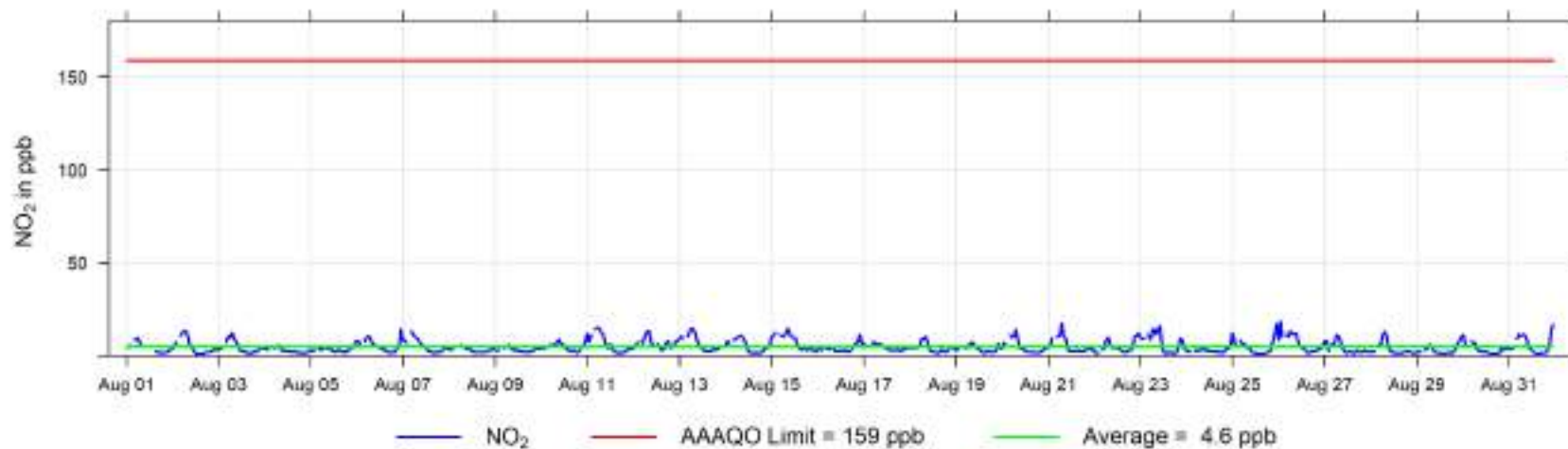
August 2024 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



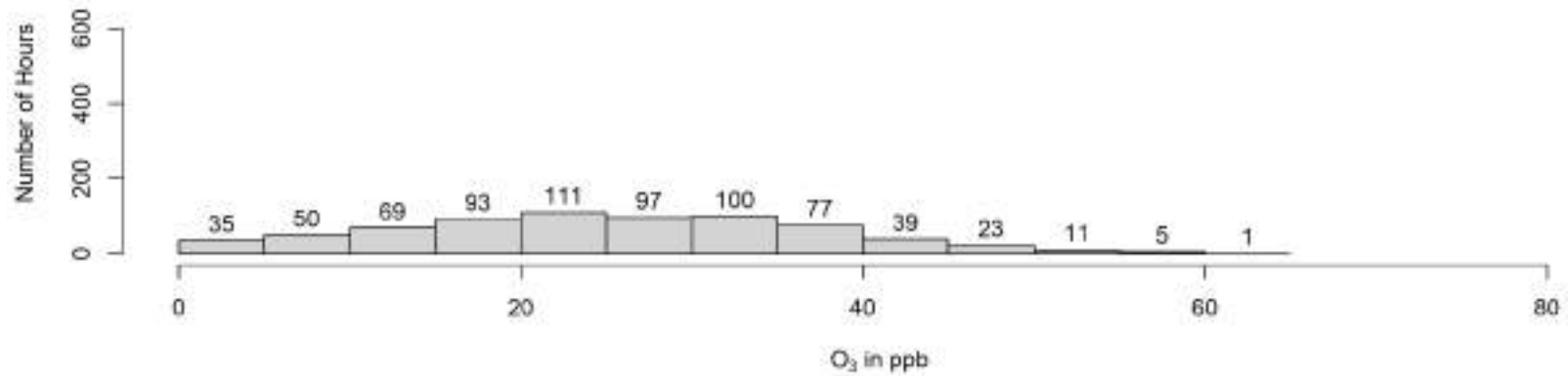
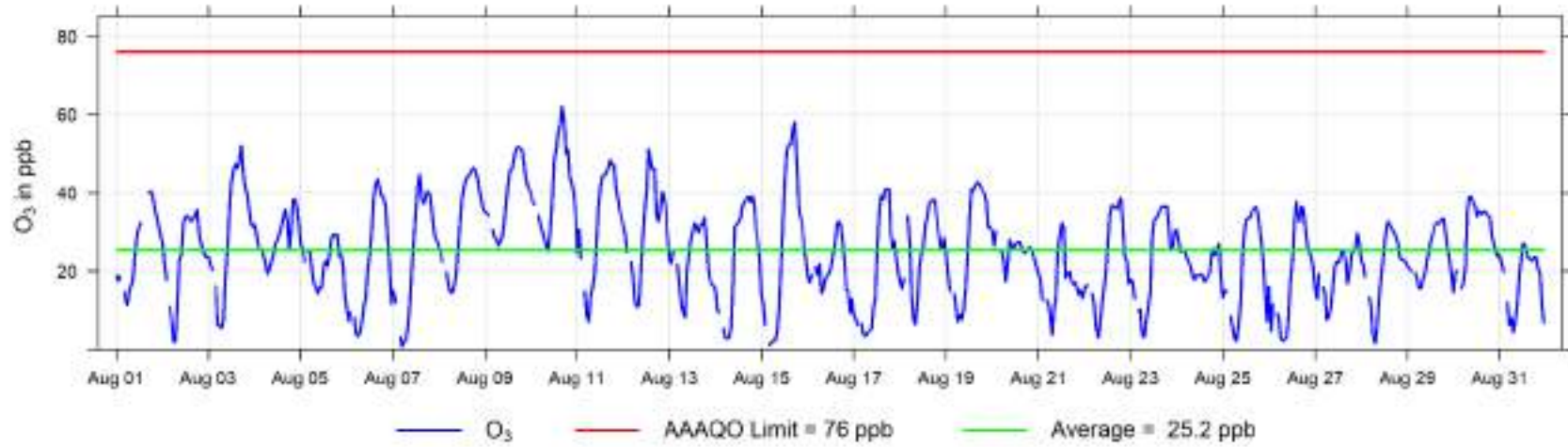
August 2024 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



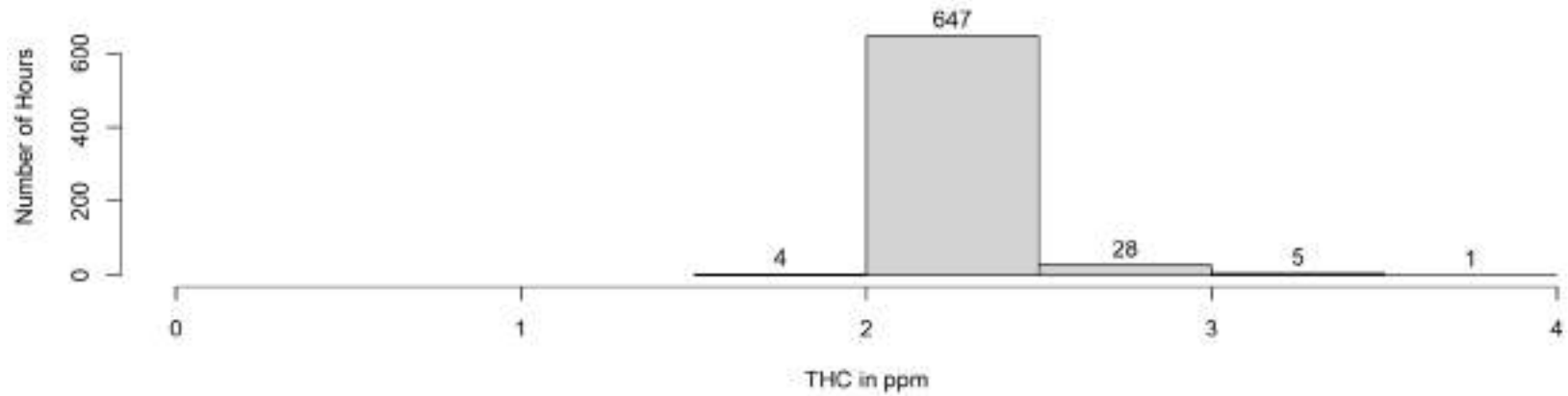
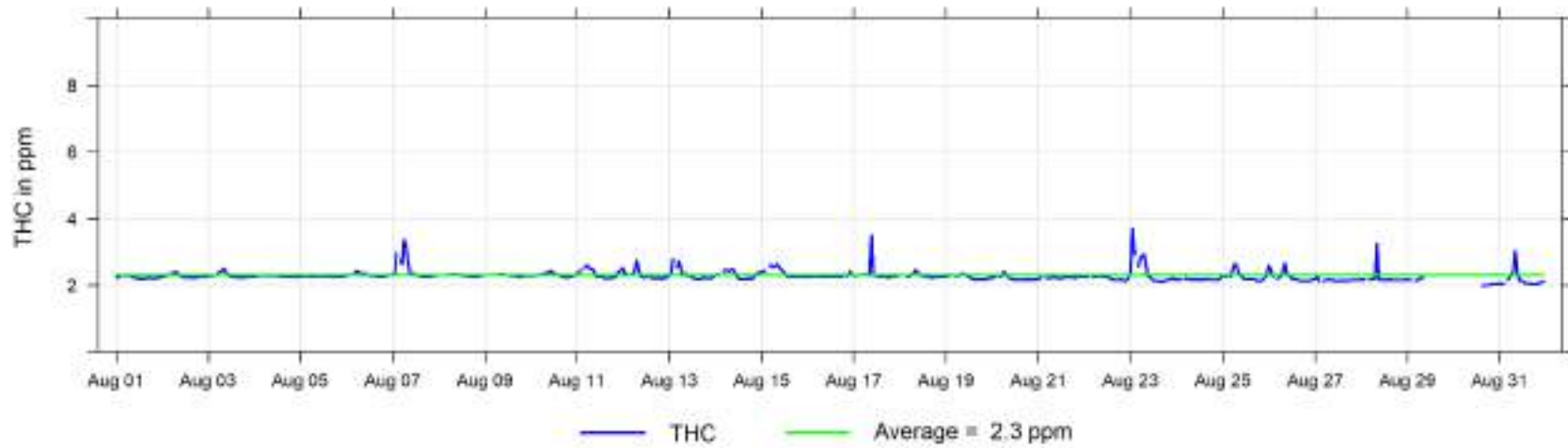
August 2024 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



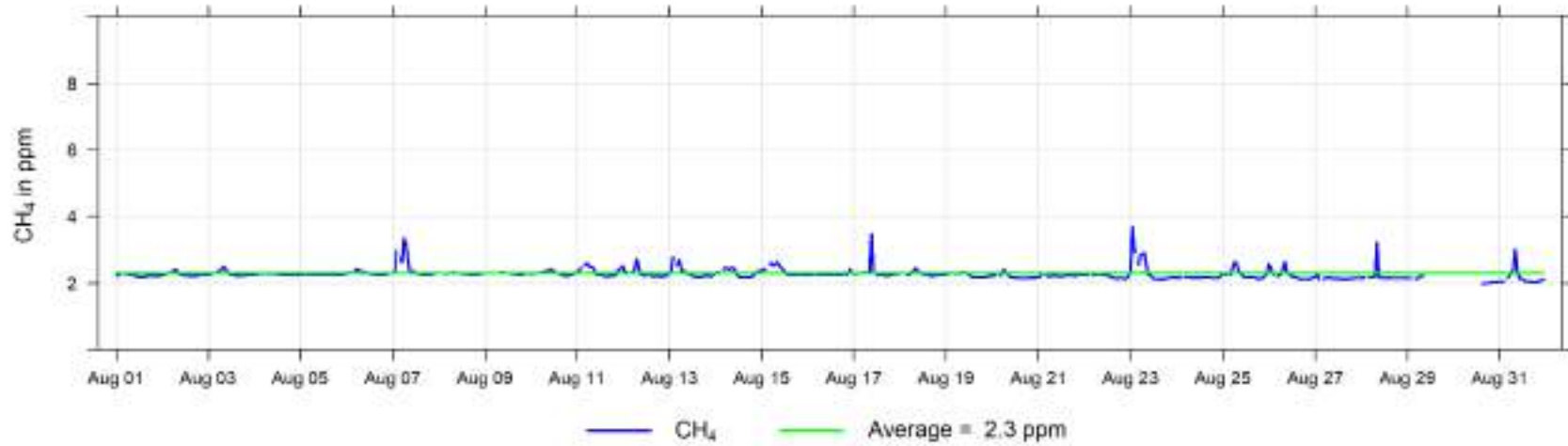
August 2024 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



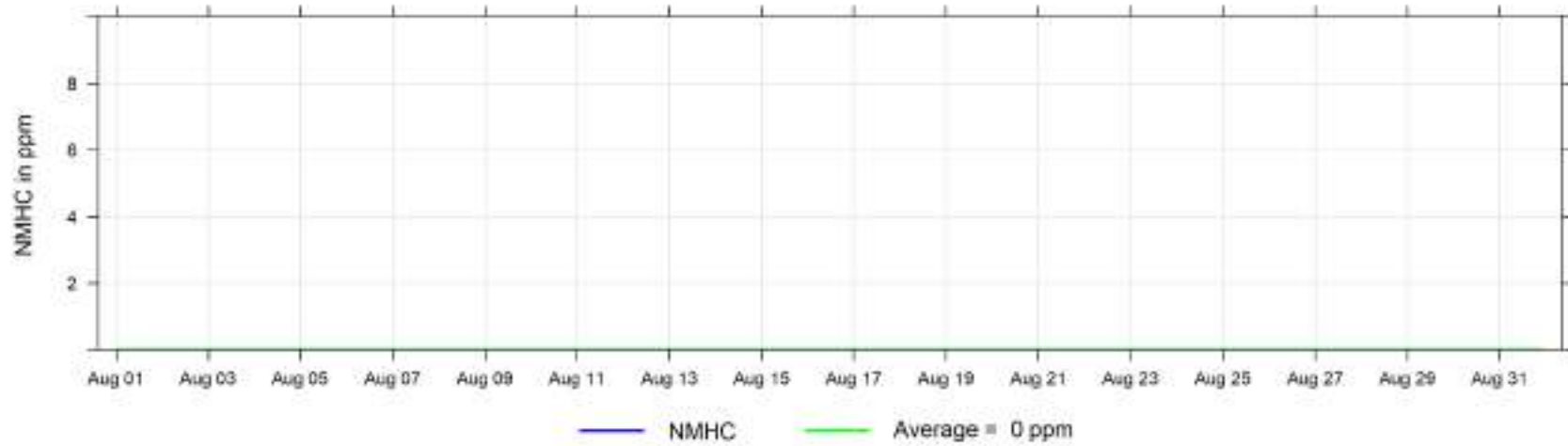
August 2024 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



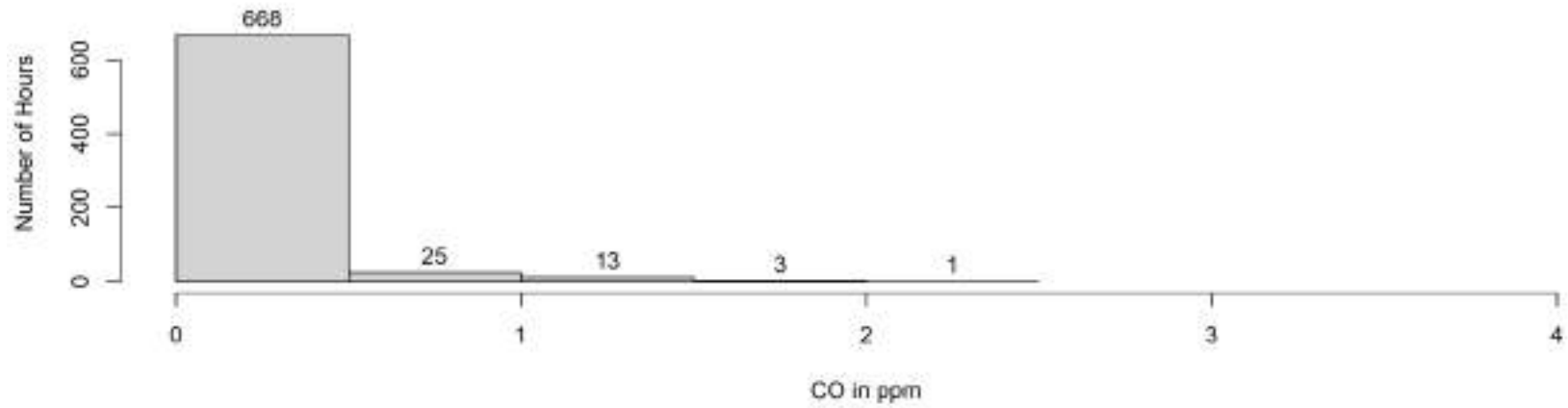
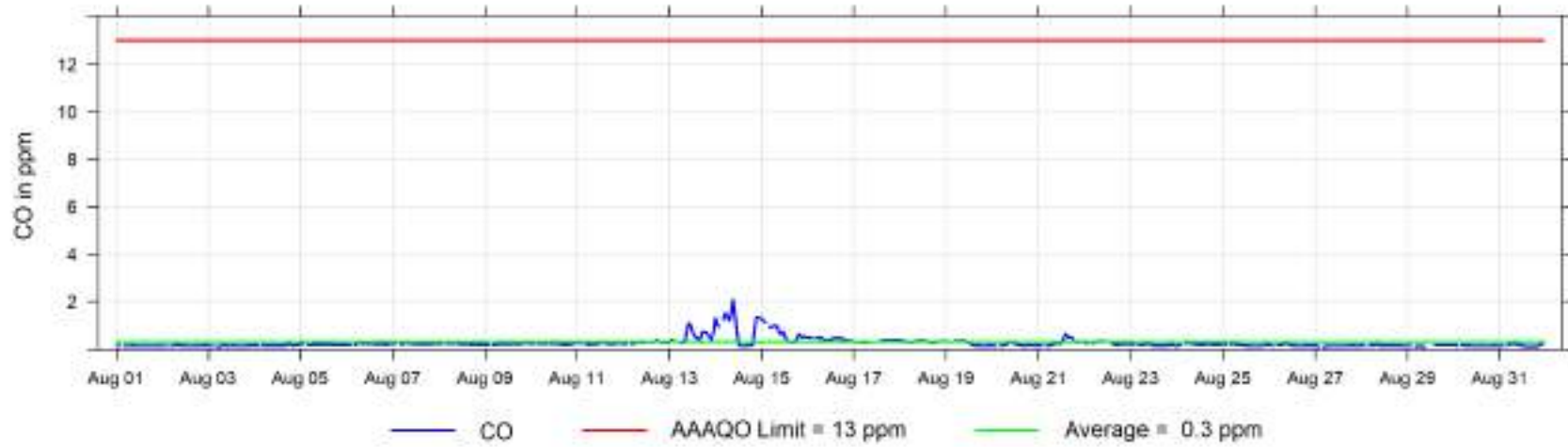
August 2024 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



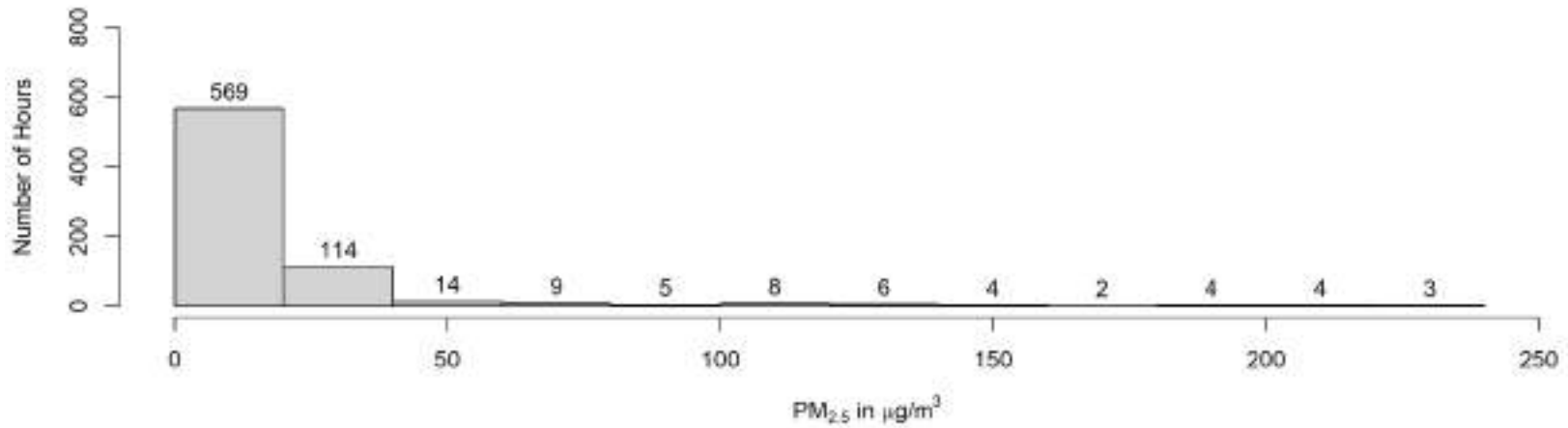
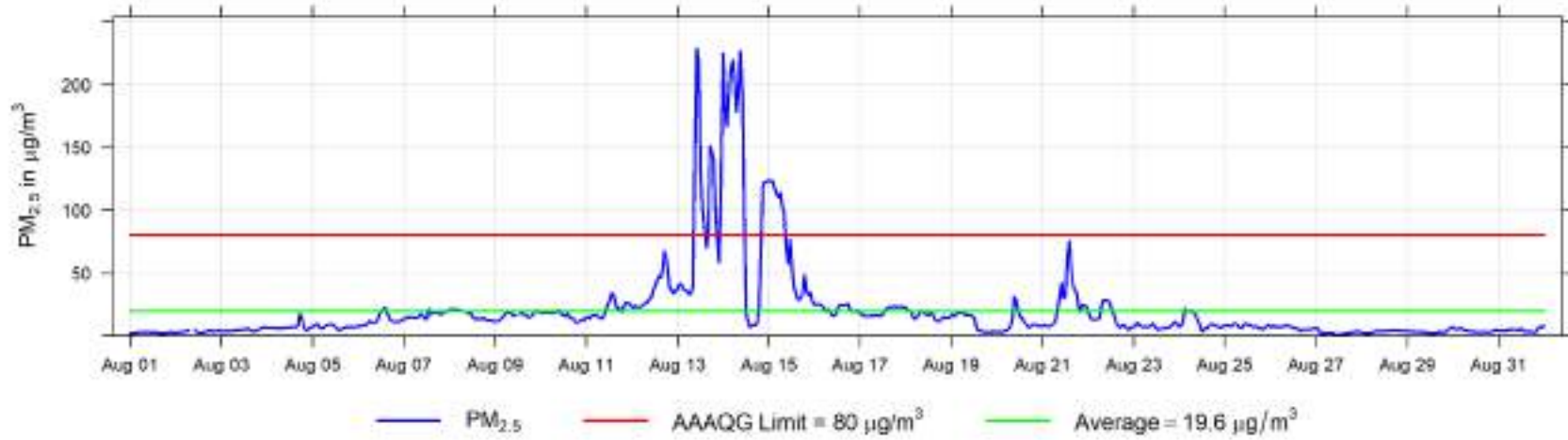
August 2024 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



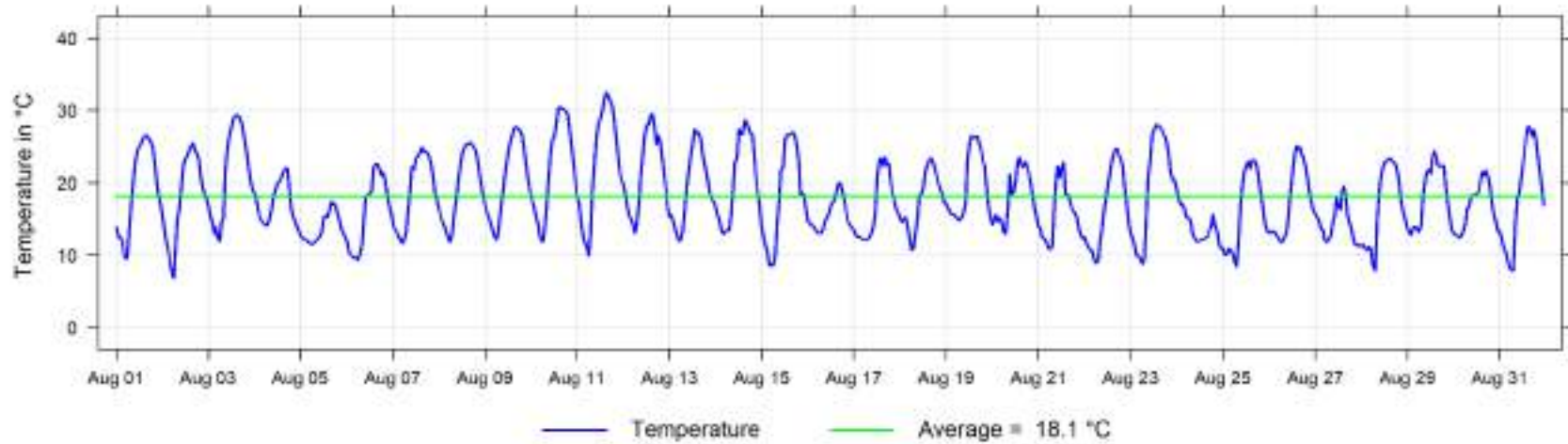
August 2024 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



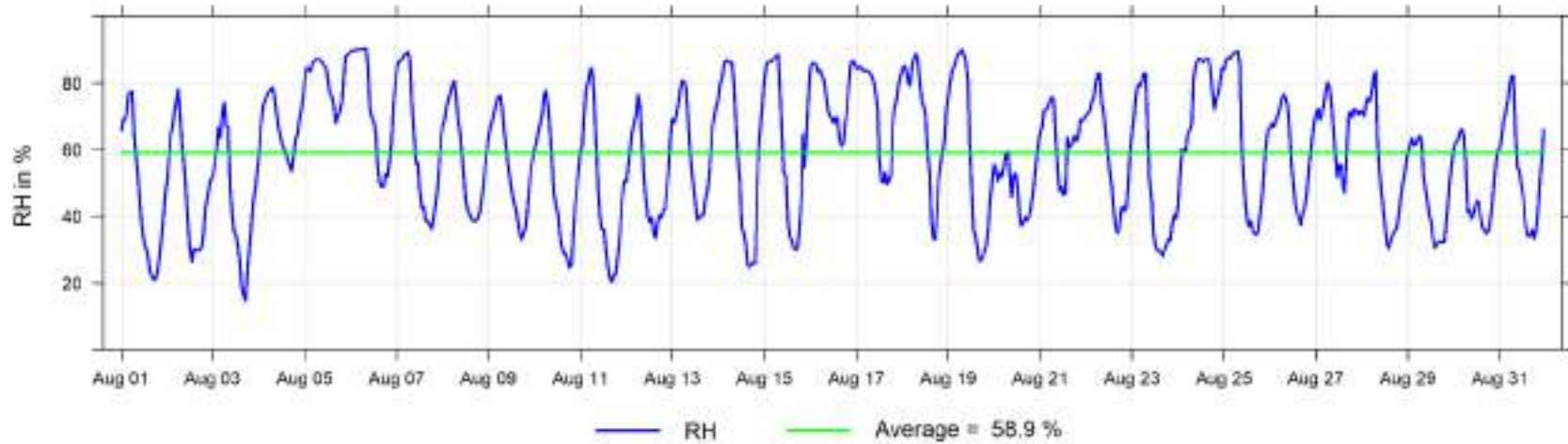
August 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



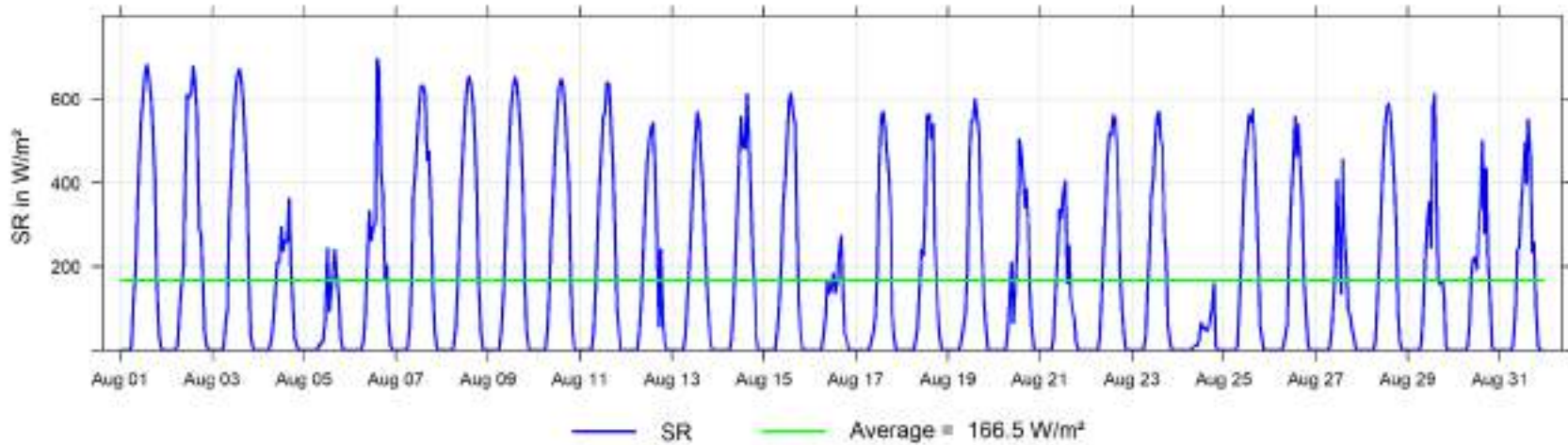
August 2024 Hourly Temperature Readings (in °C) at Henry Pirker



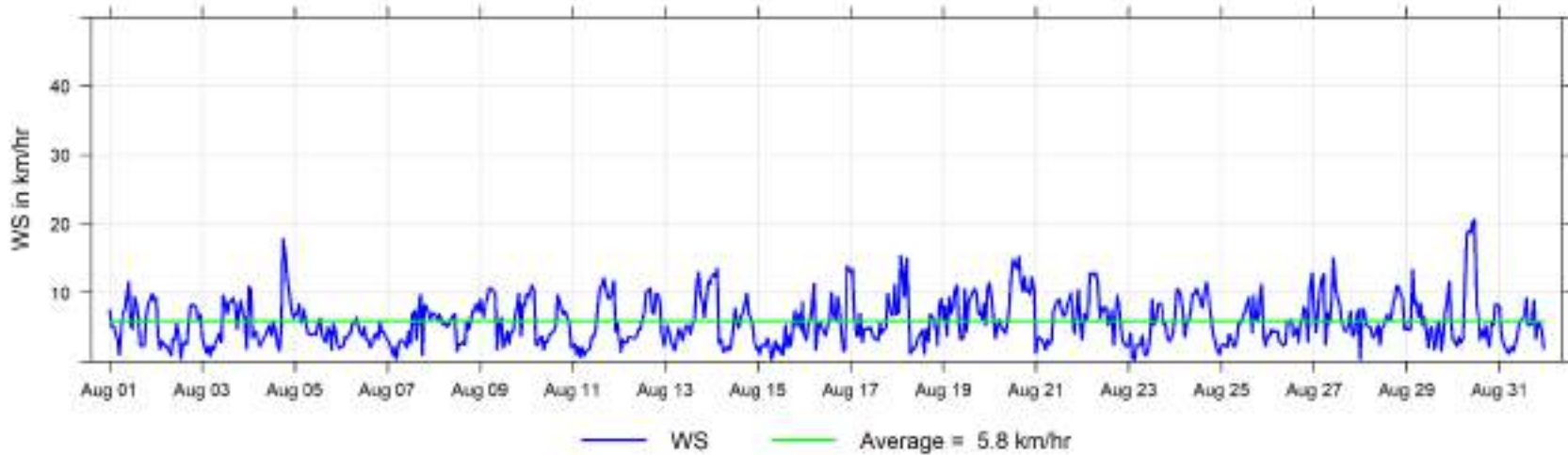
August 2024 Hourly Readings of Relative Humidity (in %) at Henry Pirker



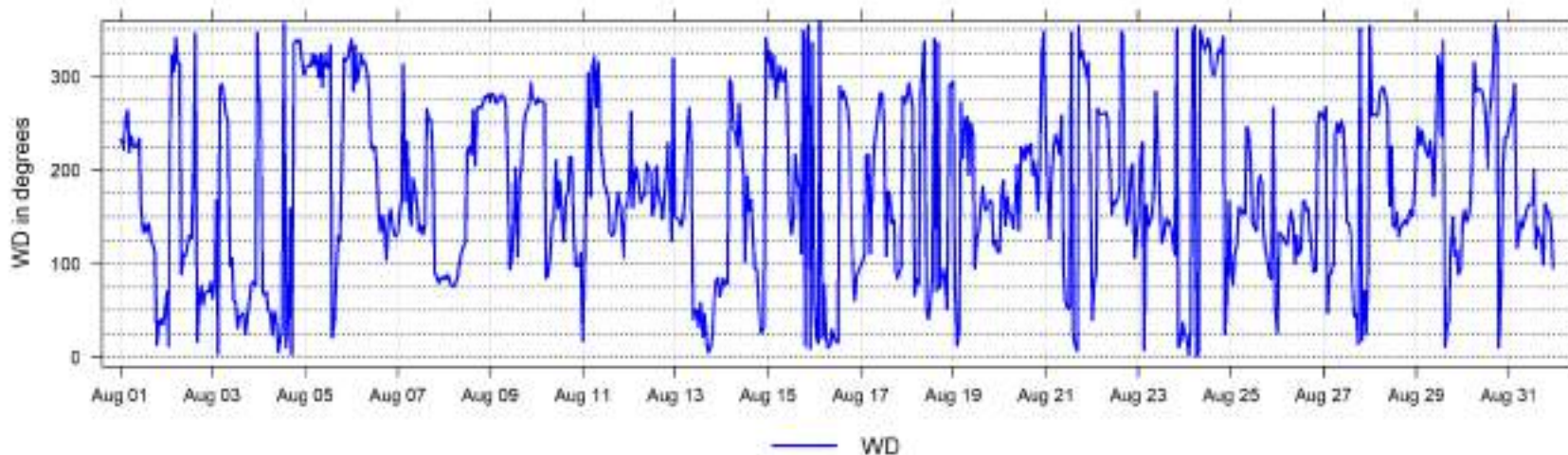
August 2024 Hourly Readings of Solar Radiation (in W/m²) at Henry Pirker



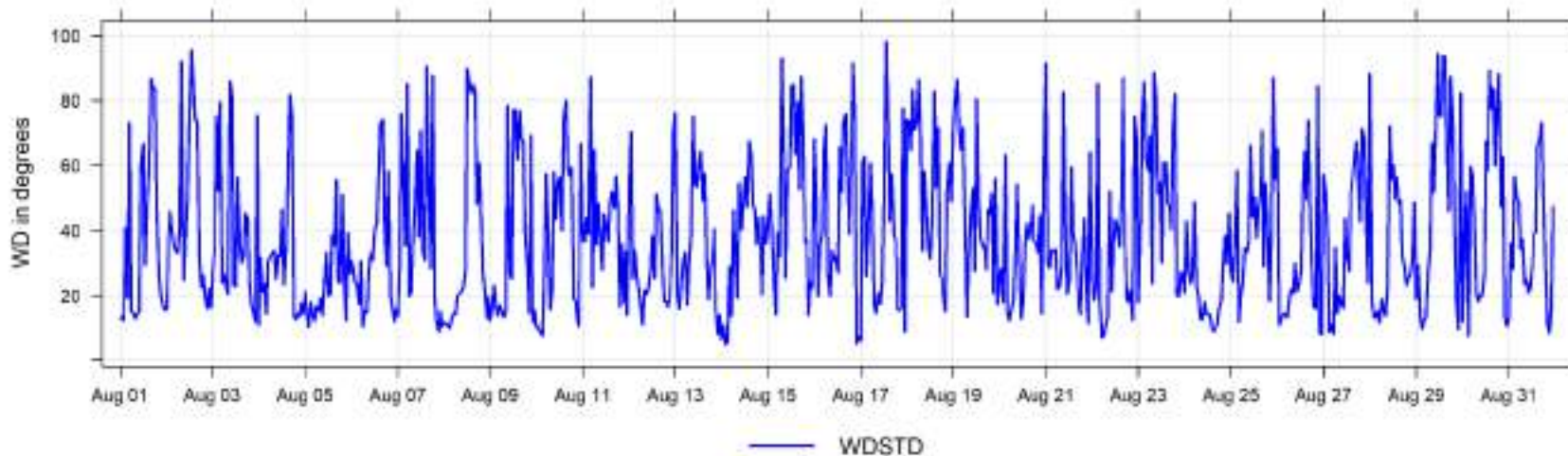
August 2024 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

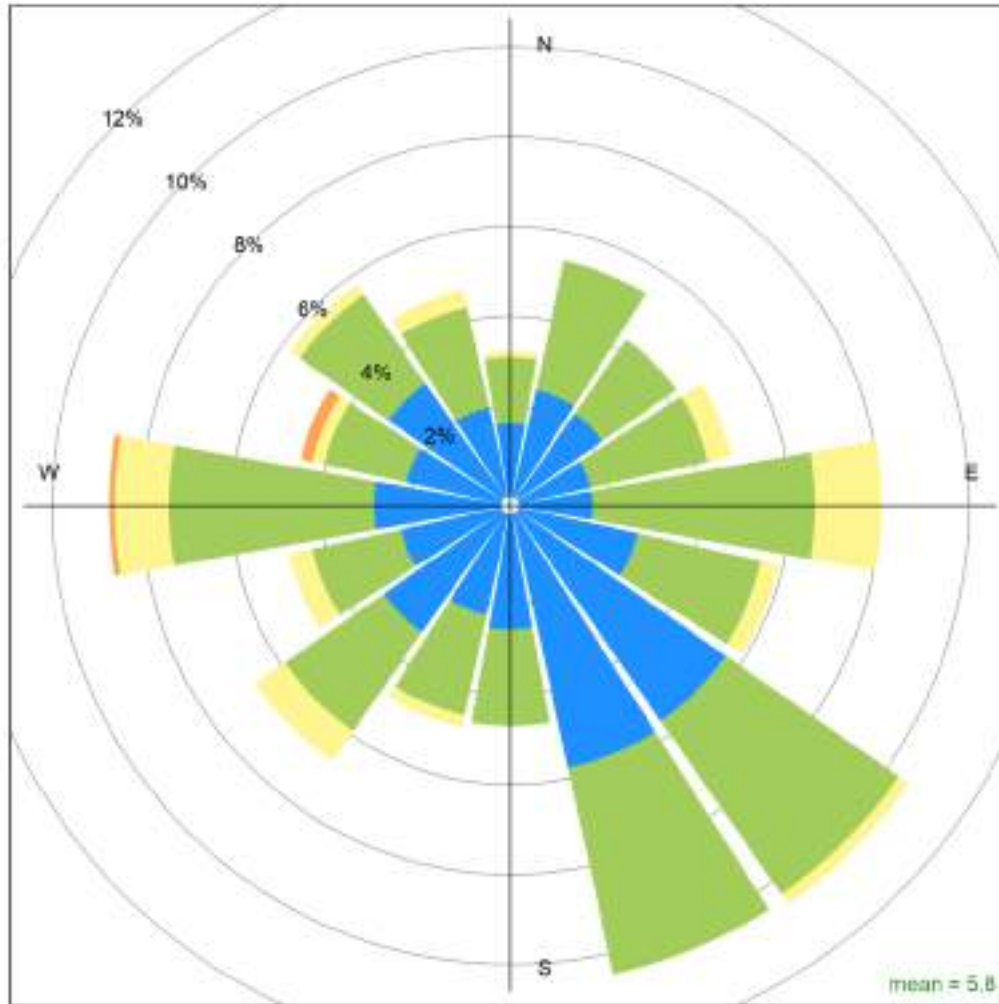


August 2024 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



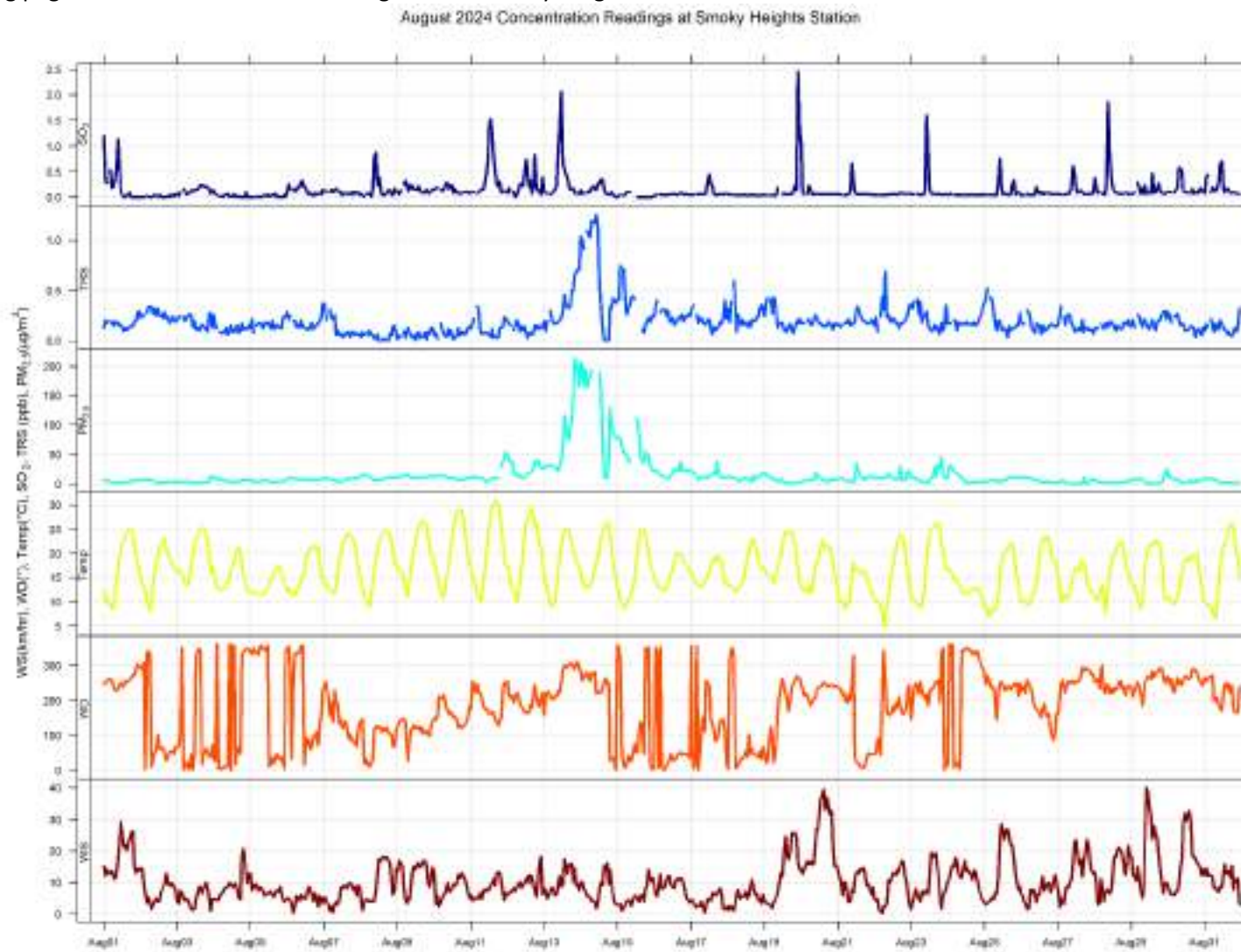
August 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Henry Pirker



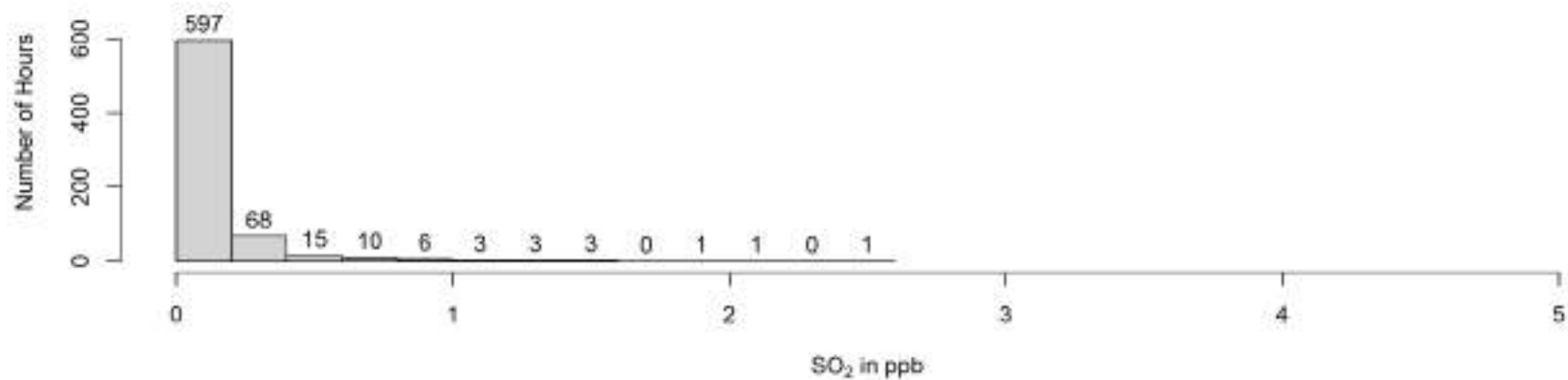
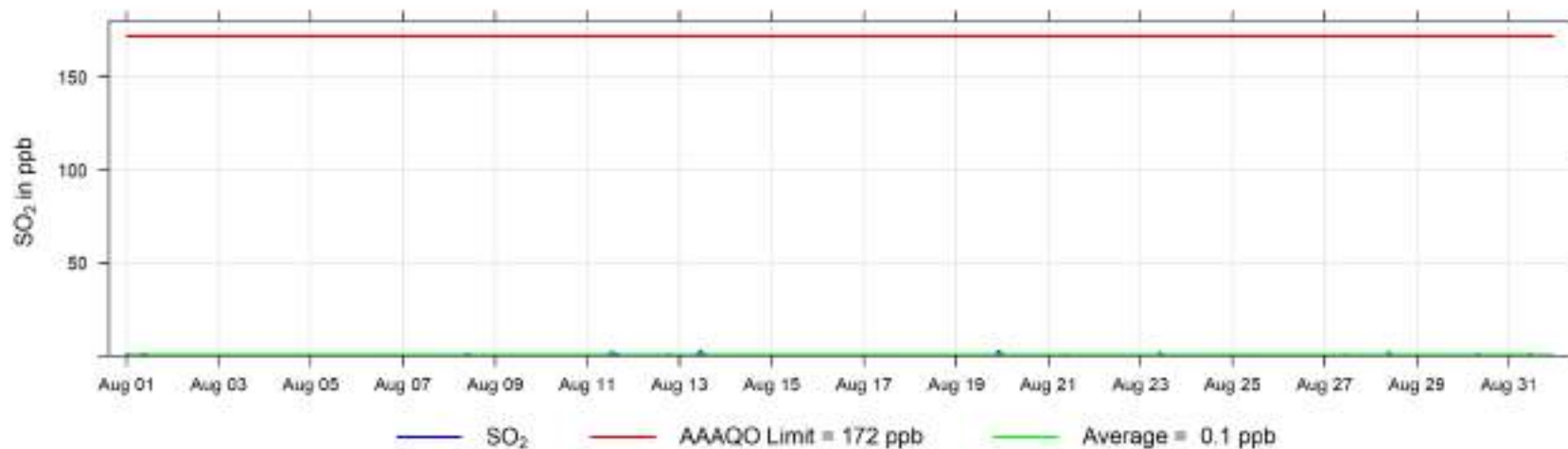


5 Smoky Heights Charts

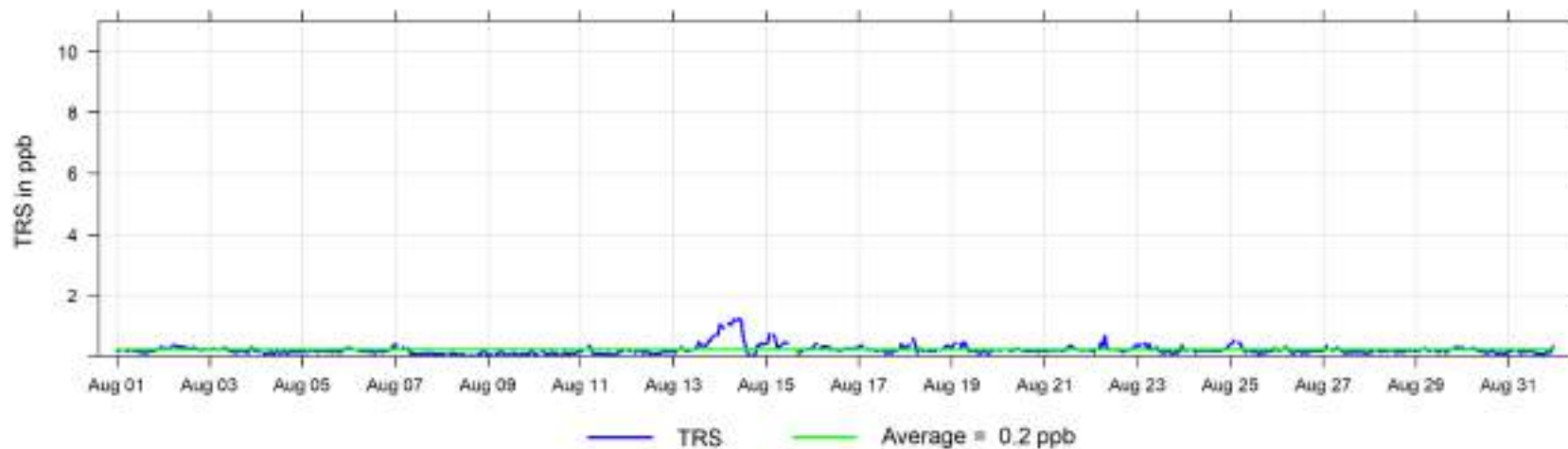
The following pages include the charts and histograms for Smoky Heights Station



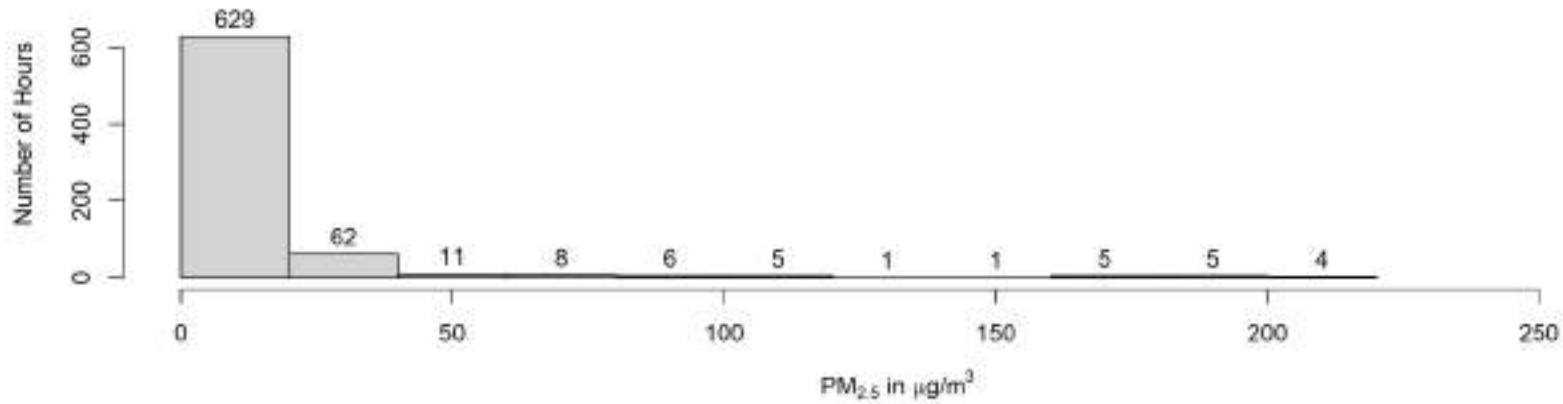
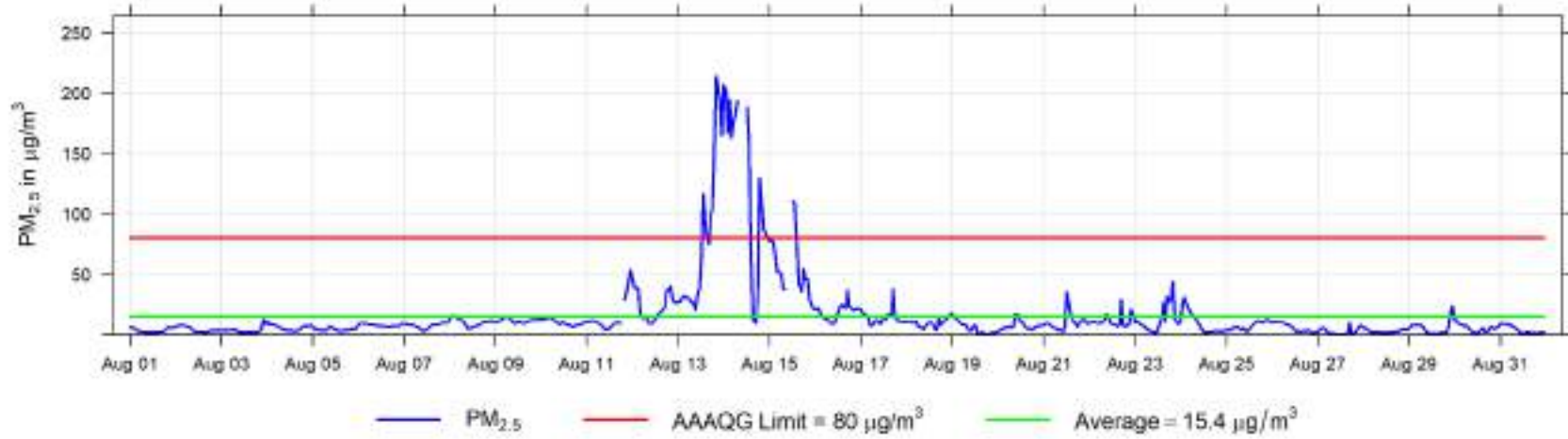
August 2024 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights



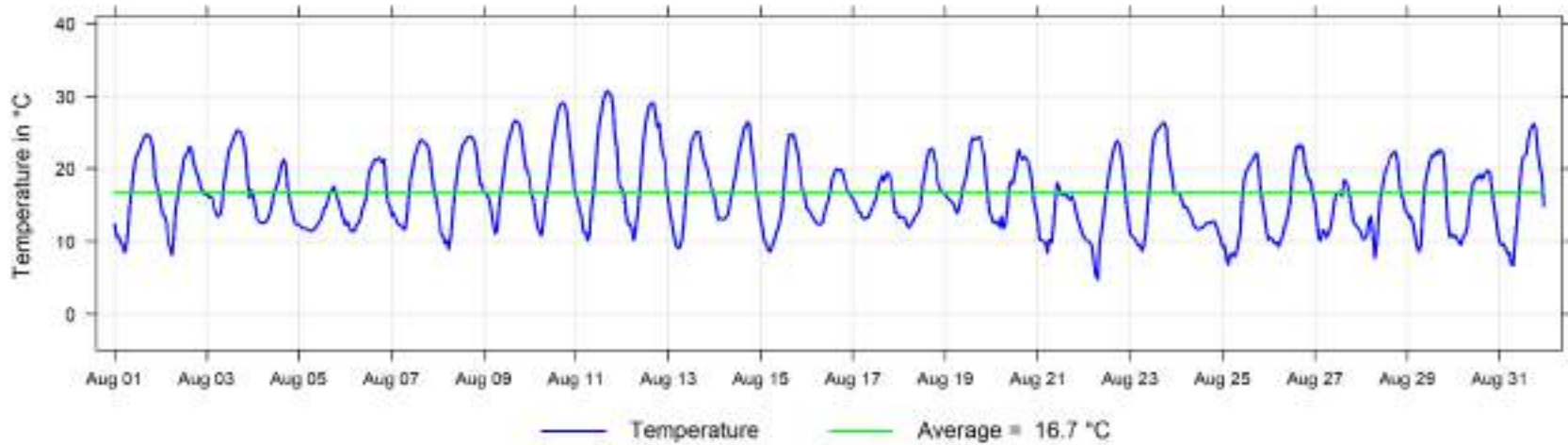
August 2024 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights



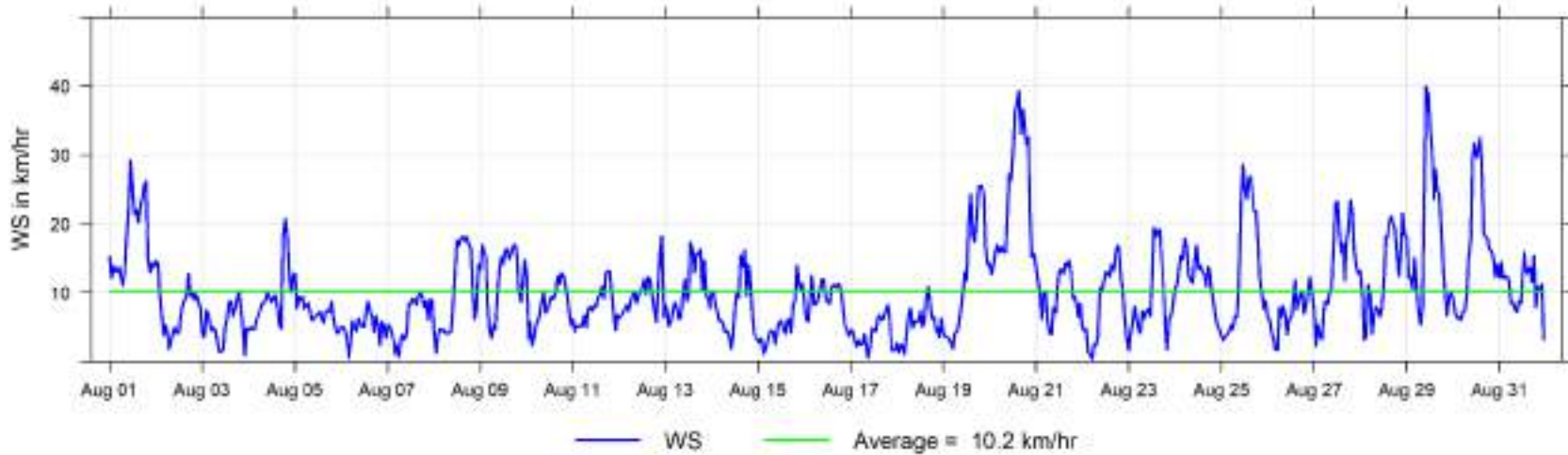
August 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights



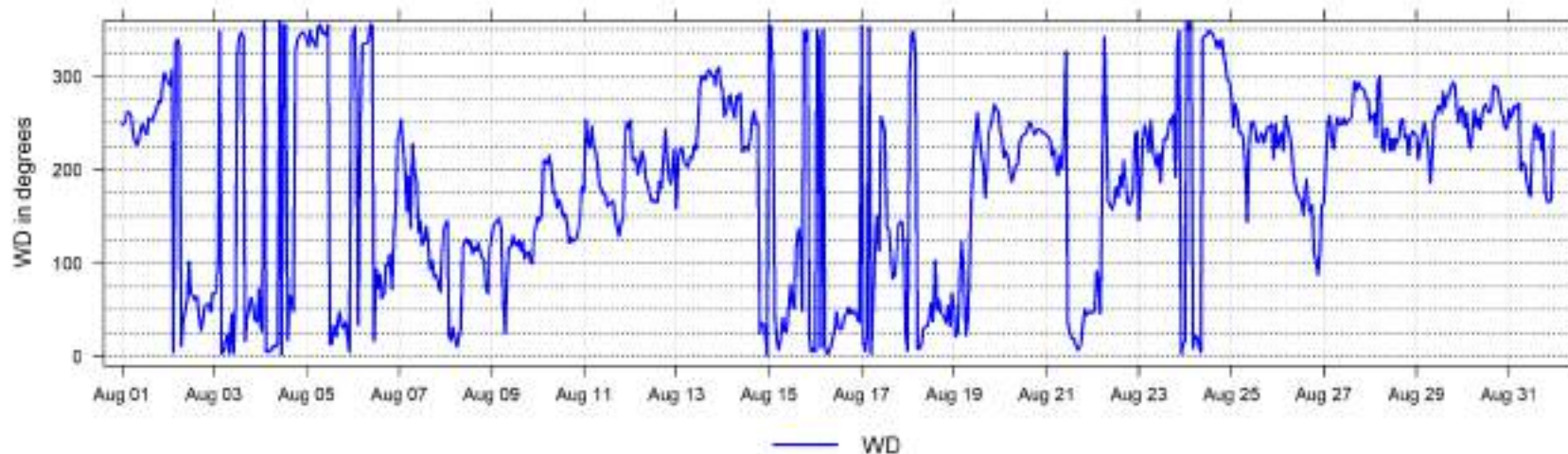
August 2024 Hourly Temperature Readings (in °C) at Smoky Heights



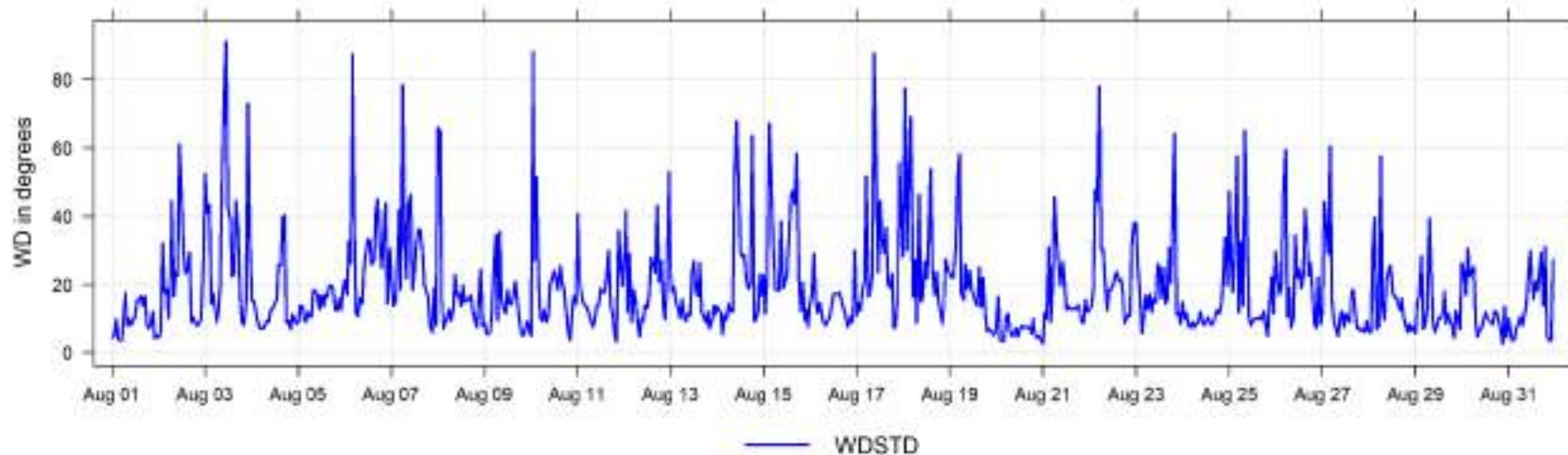
August 2024 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

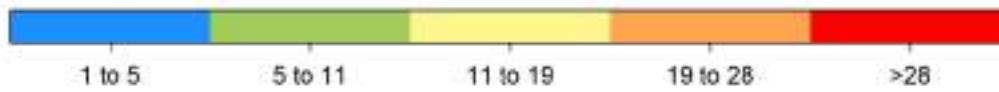
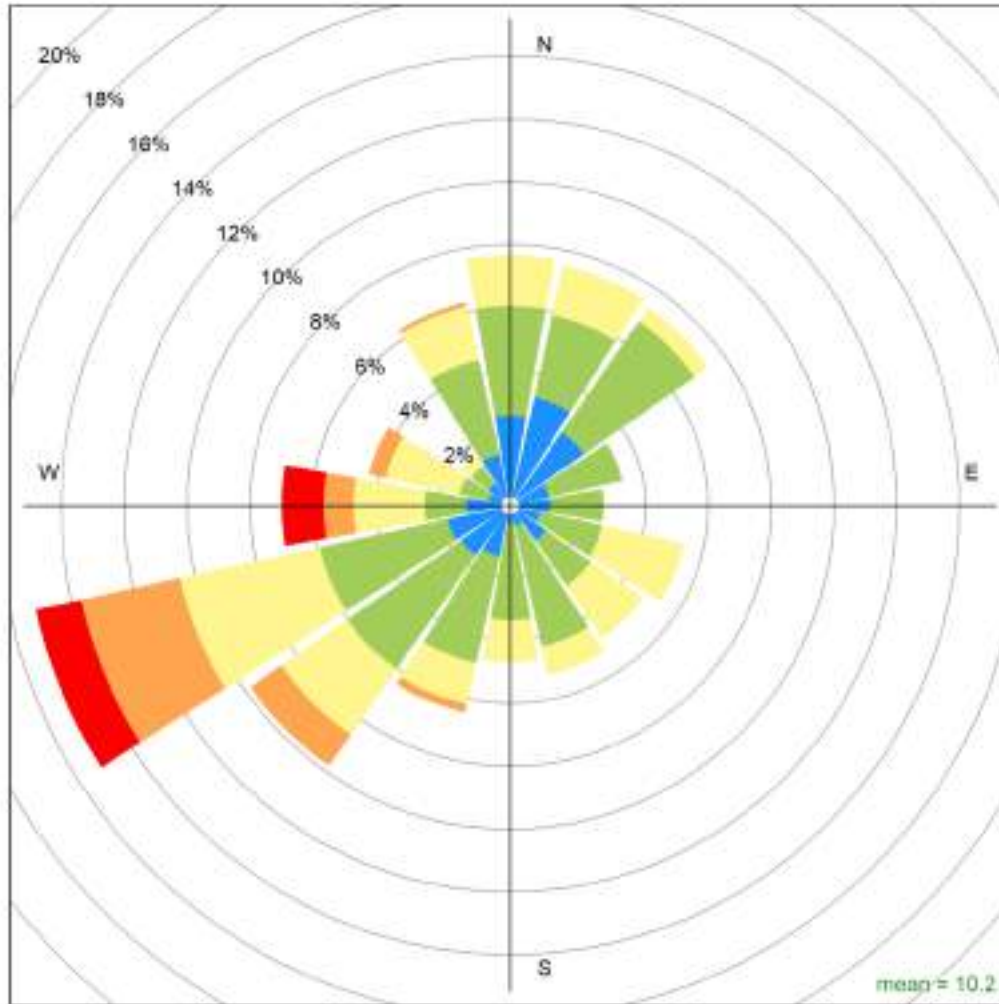


August 2024 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



August 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Smoky Heights



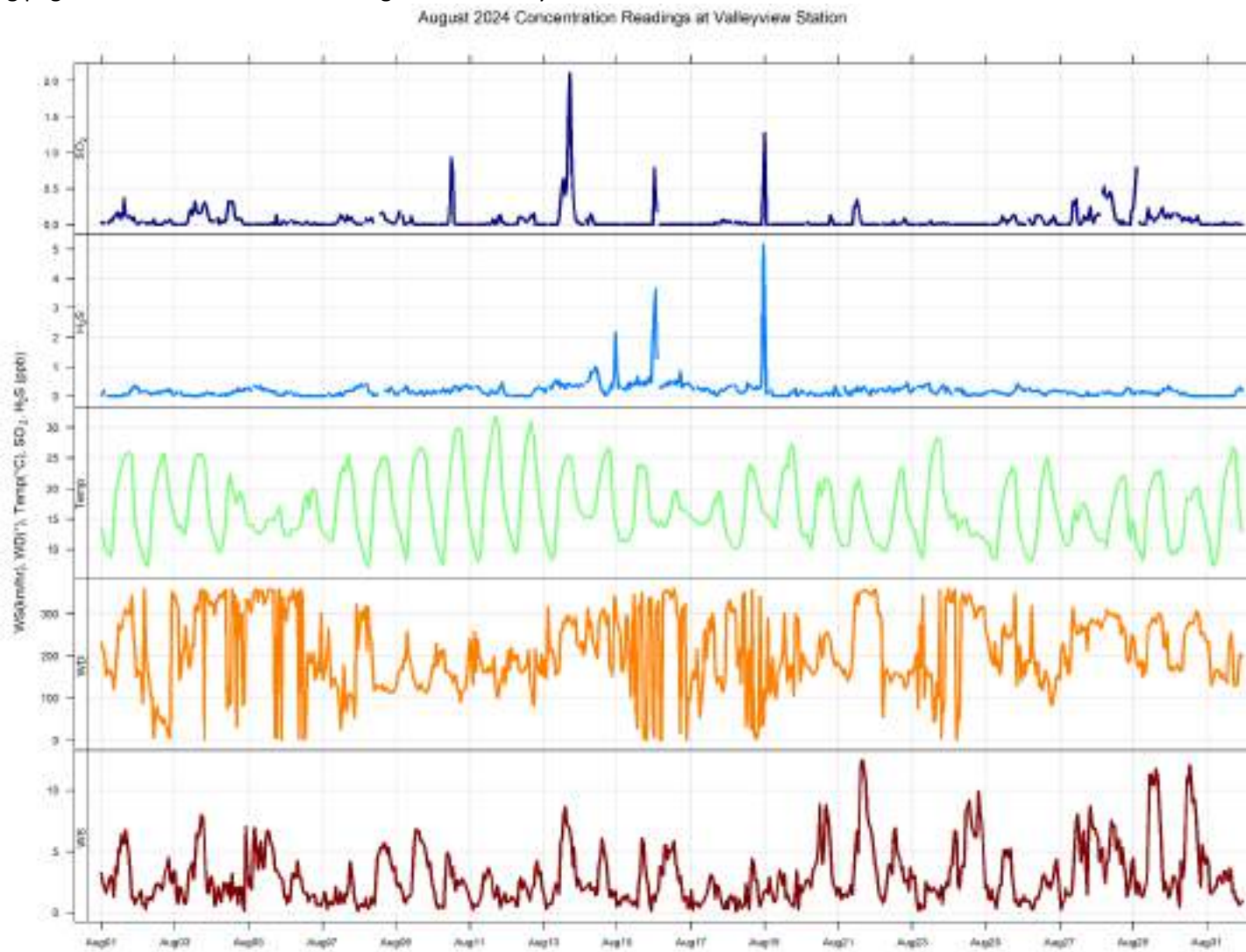


Smoky Heights August 2024 Wind Rose, wind speed in km/hr

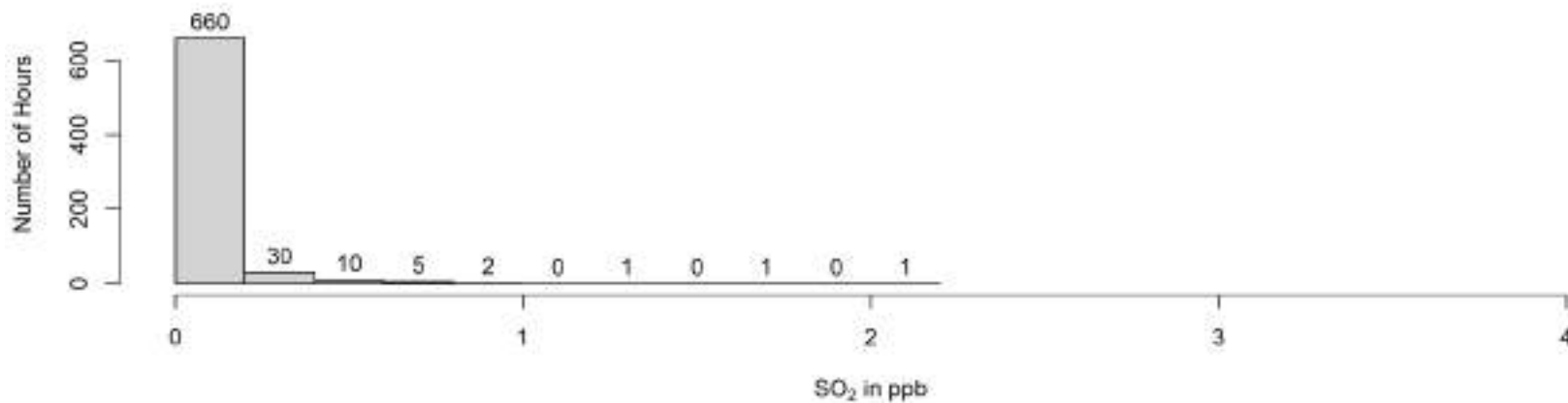
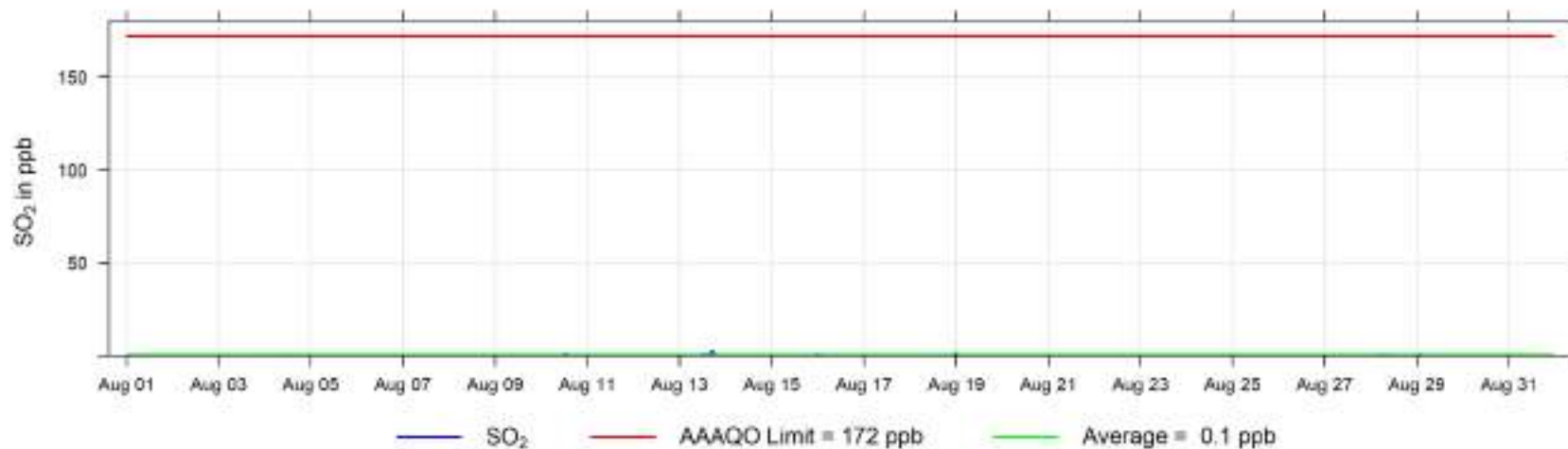
Calms (<1km/hr) = 0.7 %

6 Valleyview Charts

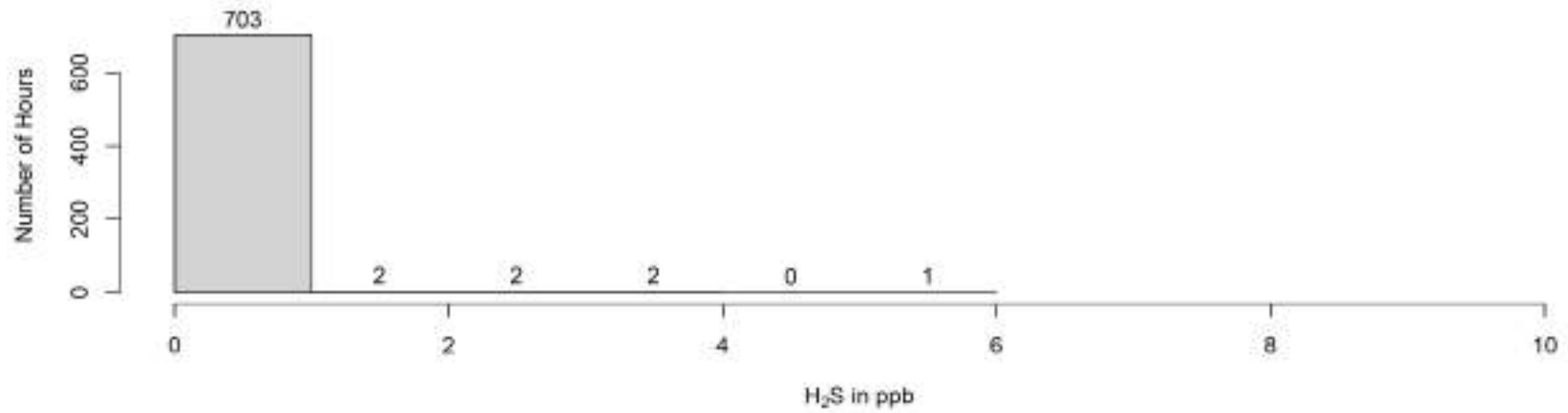
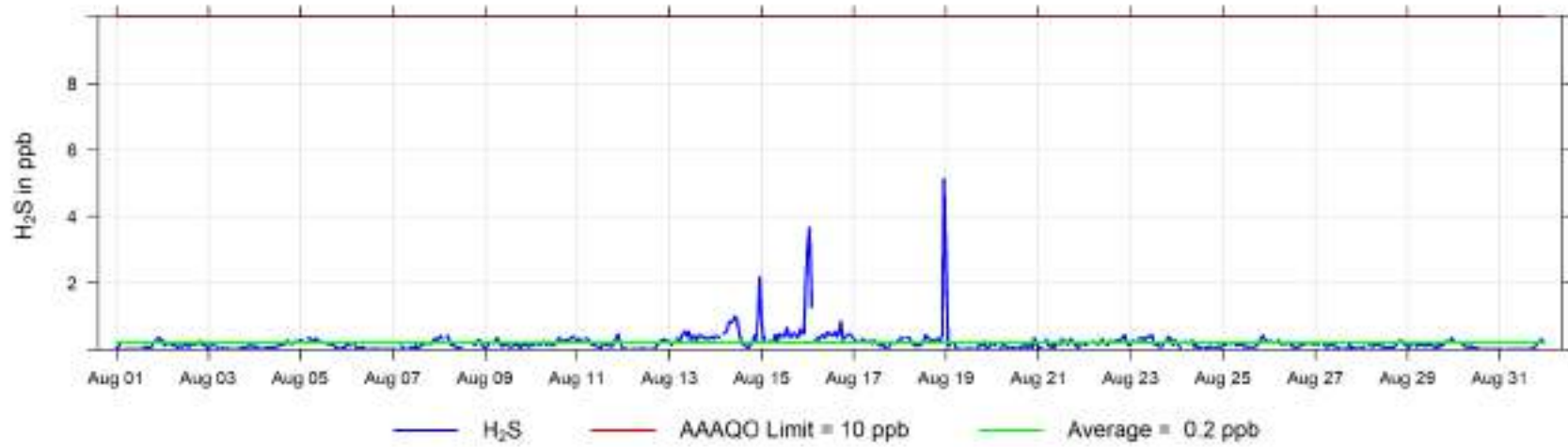
The following pages include the charts and histograms for Valleyview Station



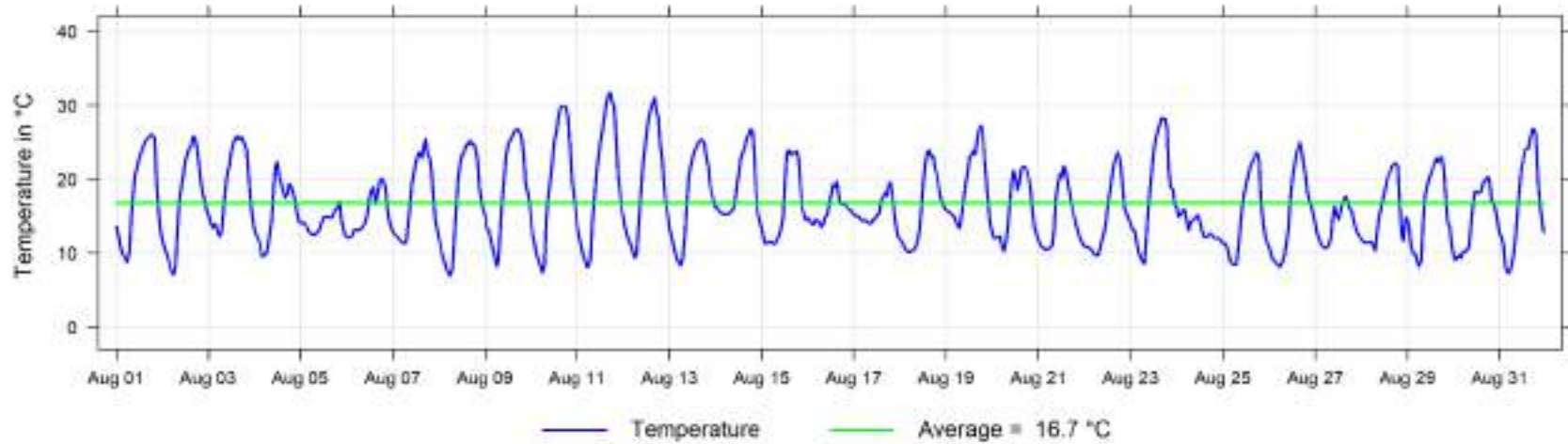
August 2024 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



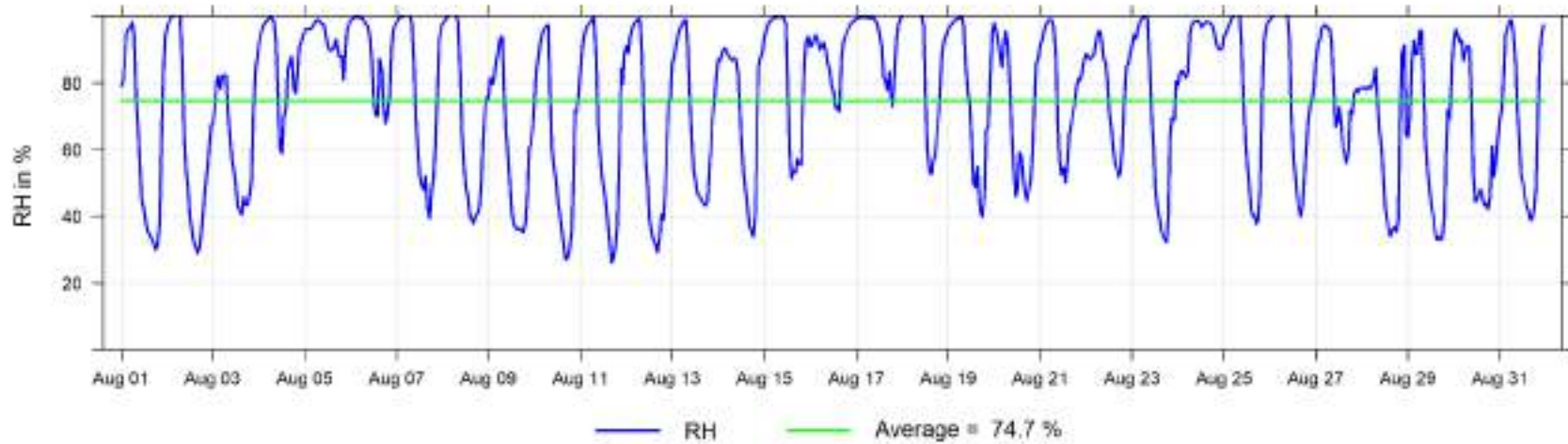
August 2024 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



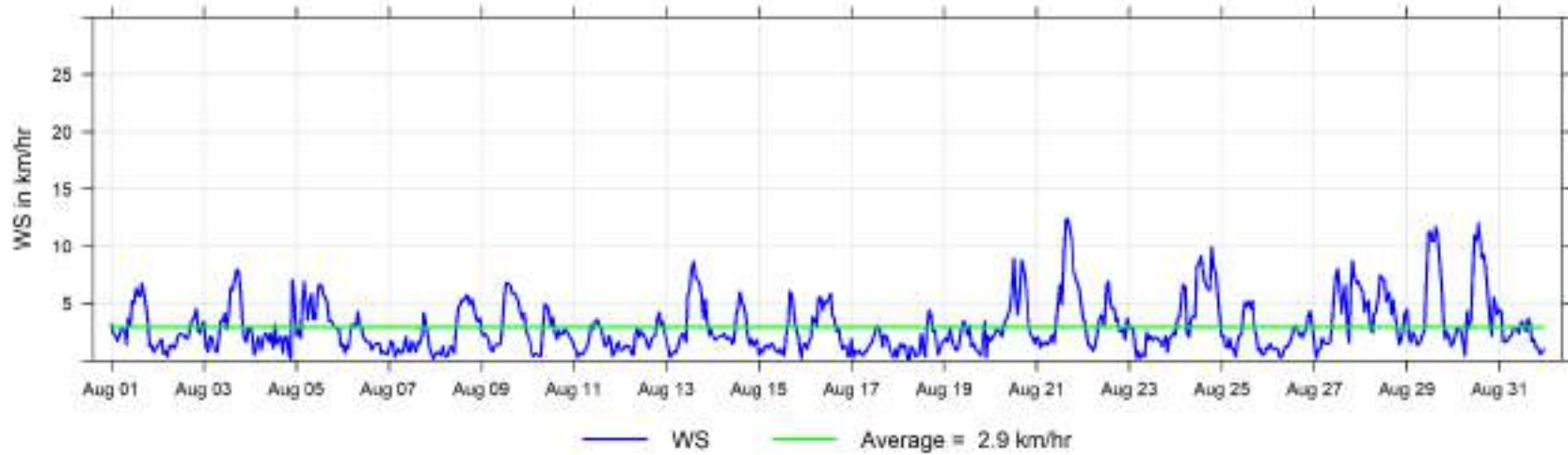
August 2024 Hourly Temperature Readings (in °C) at Valleyview



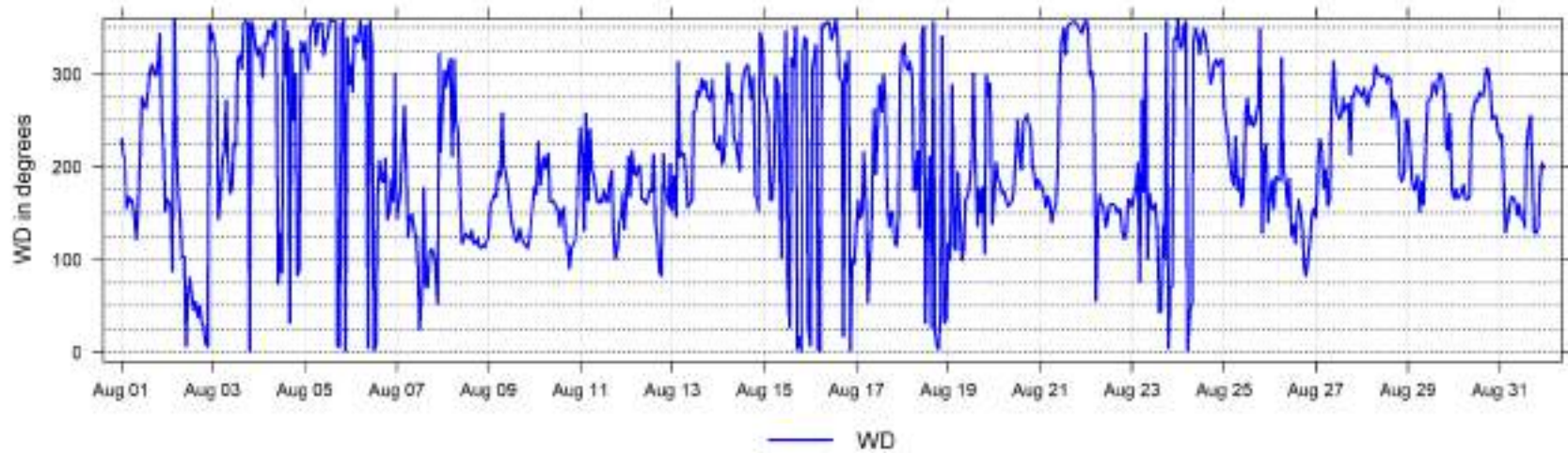
August 2024 Hourly Readings of Relative Humidity (in %) at Valleyview



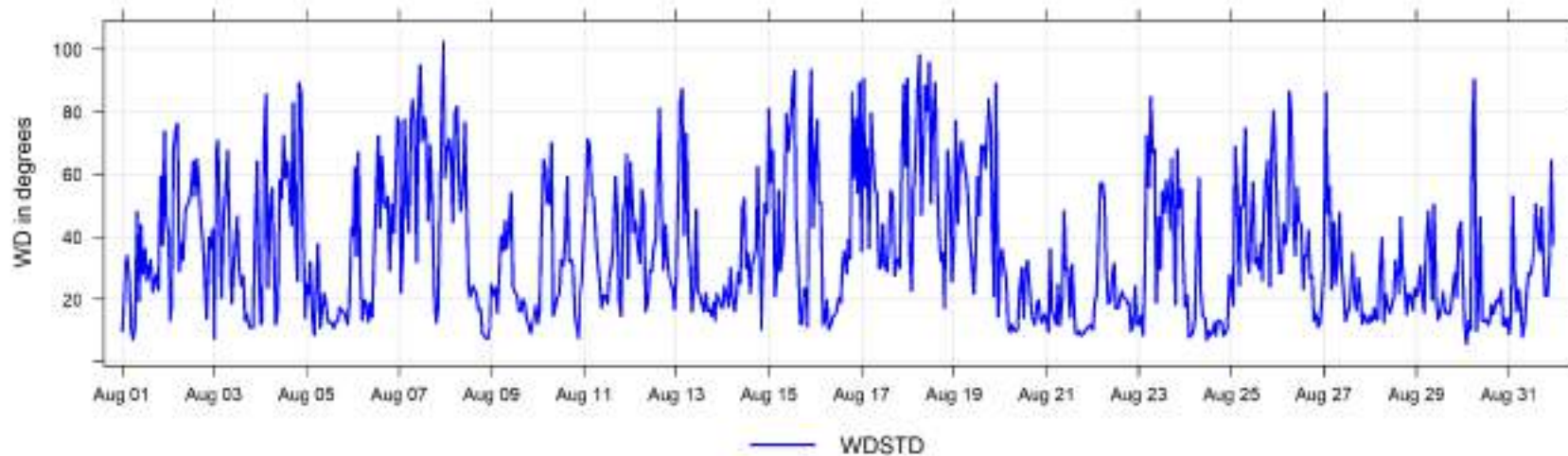
August 2024 Hourly Readings of Wind Speed (in km/hr) at Valleyview

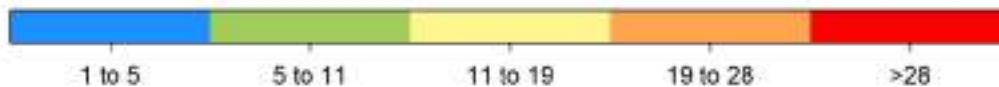
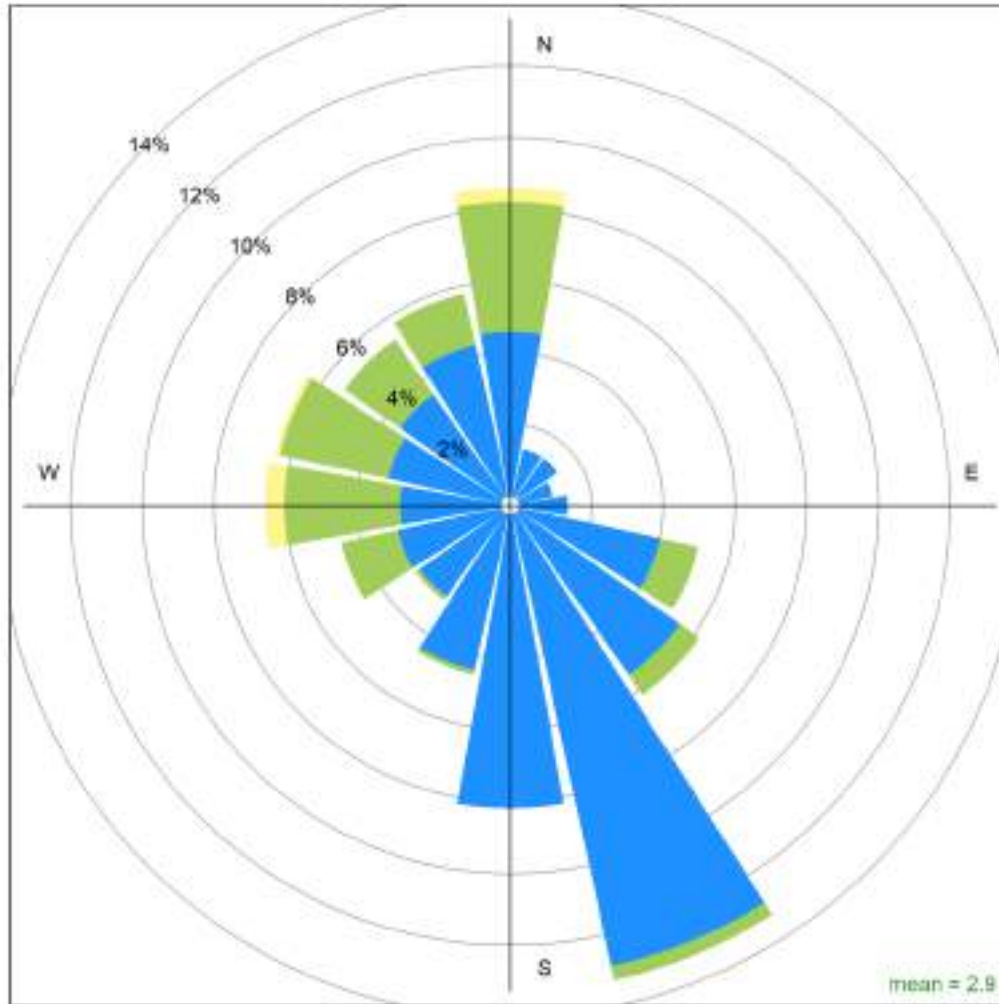


August 2024 Hourly Readings of Wind Direction (in degrees) at Valleyview



August 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Valleyview

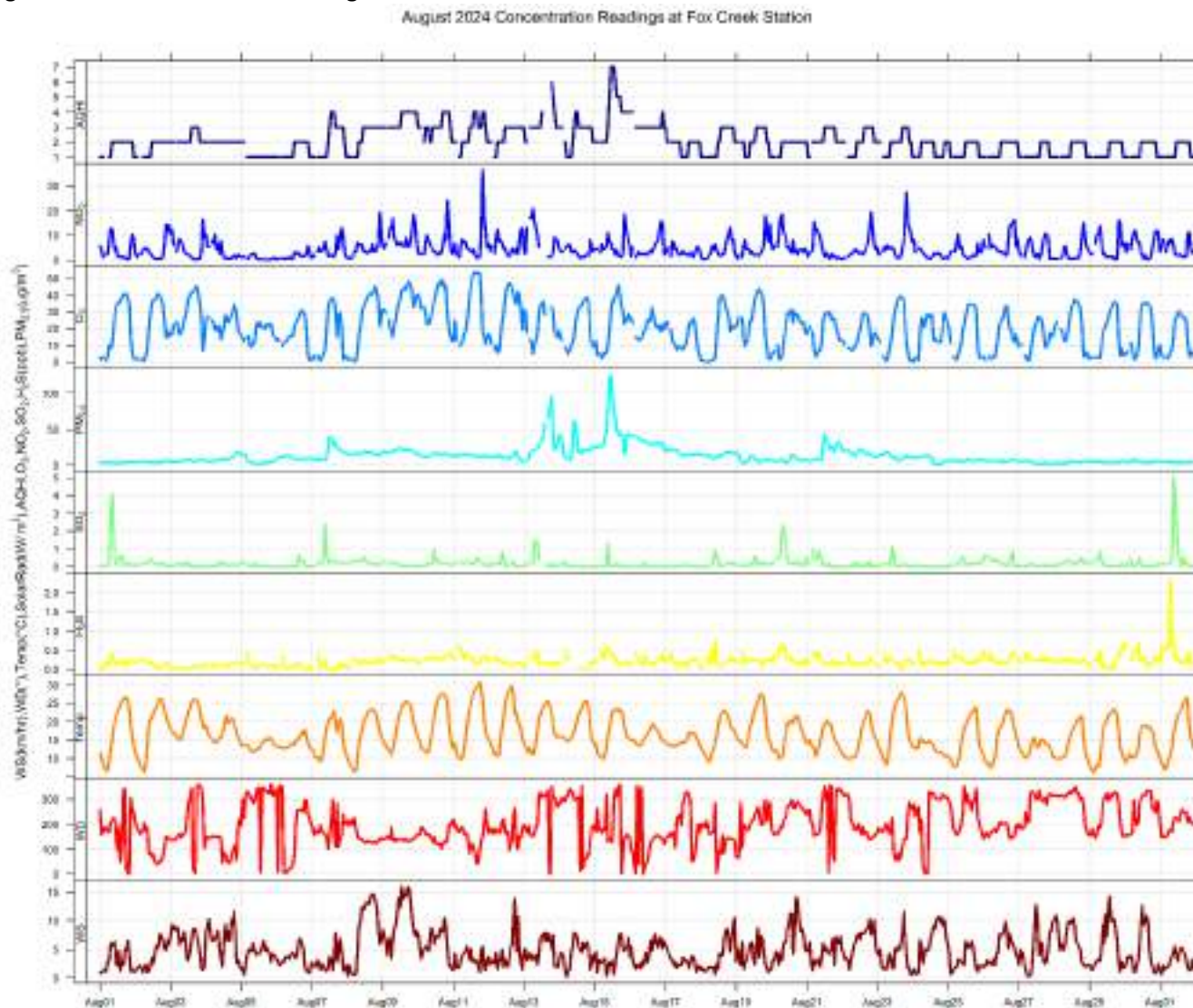




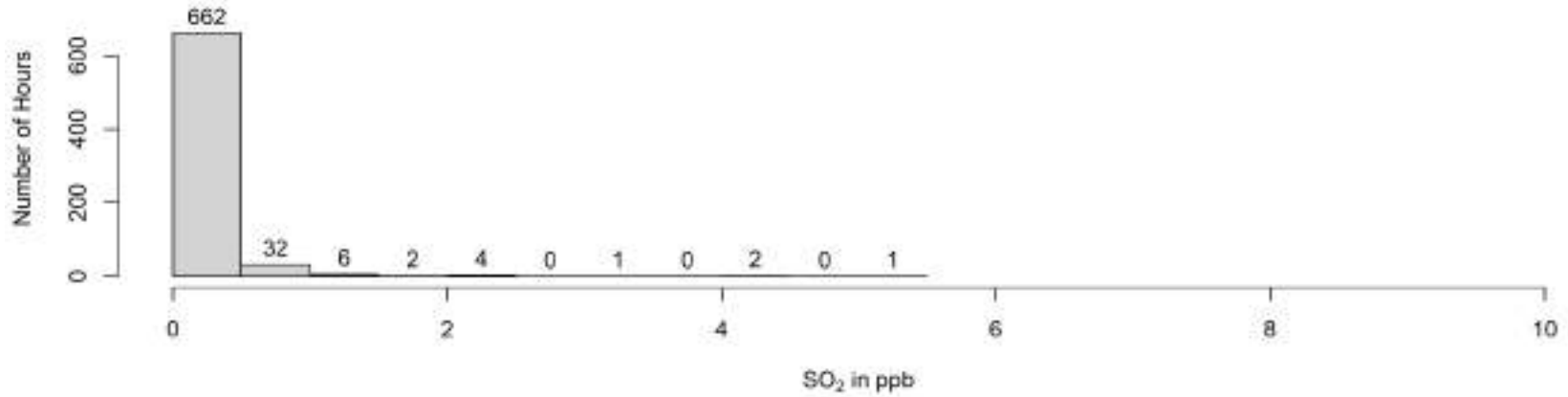
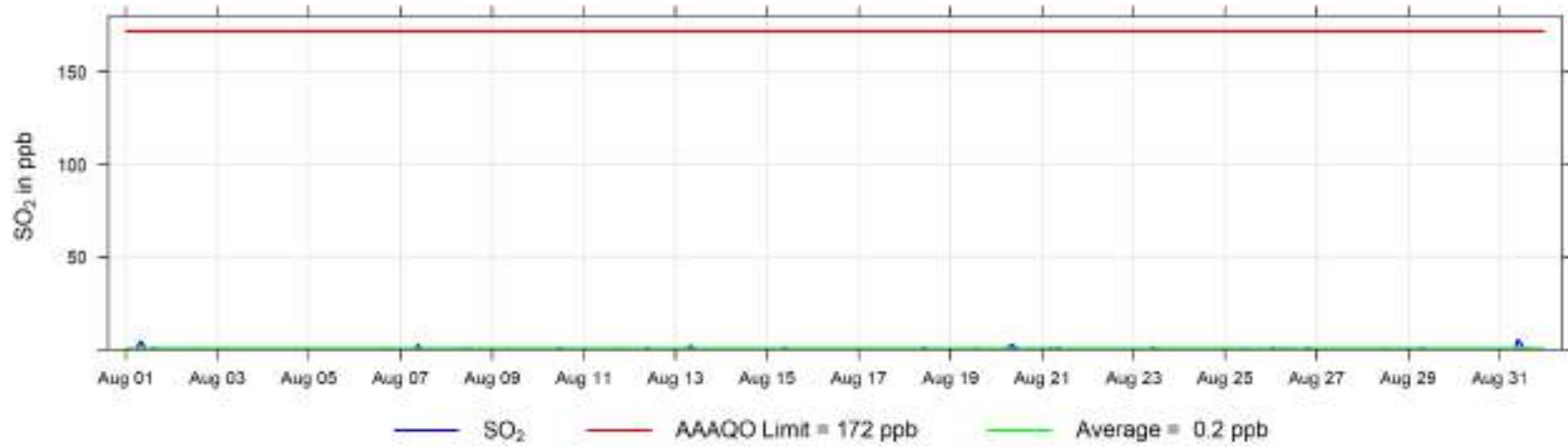
Valleyview August 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 17.4 %

7 Fox Creek Charts

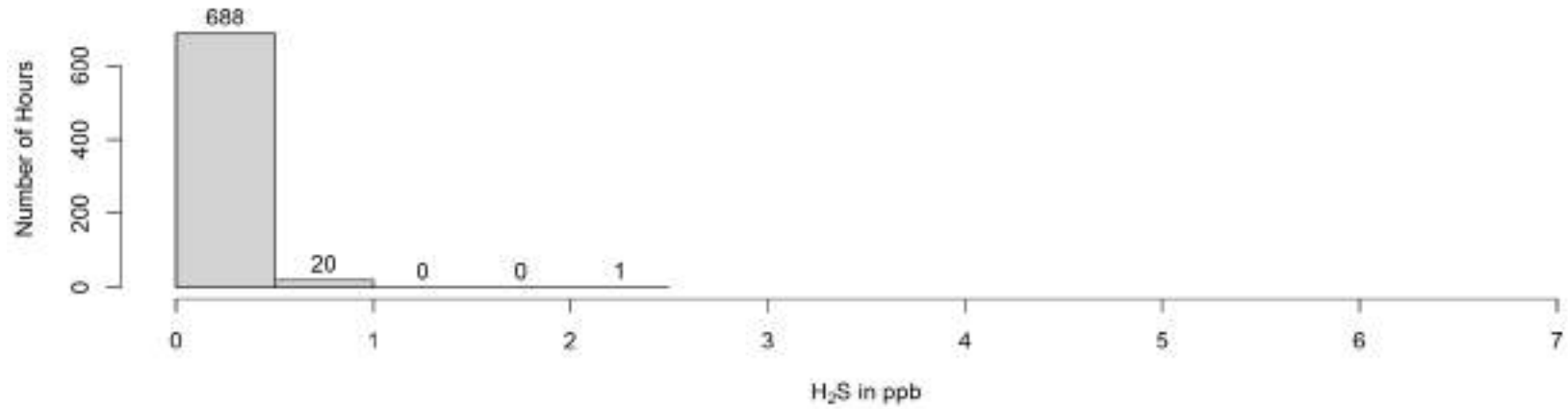
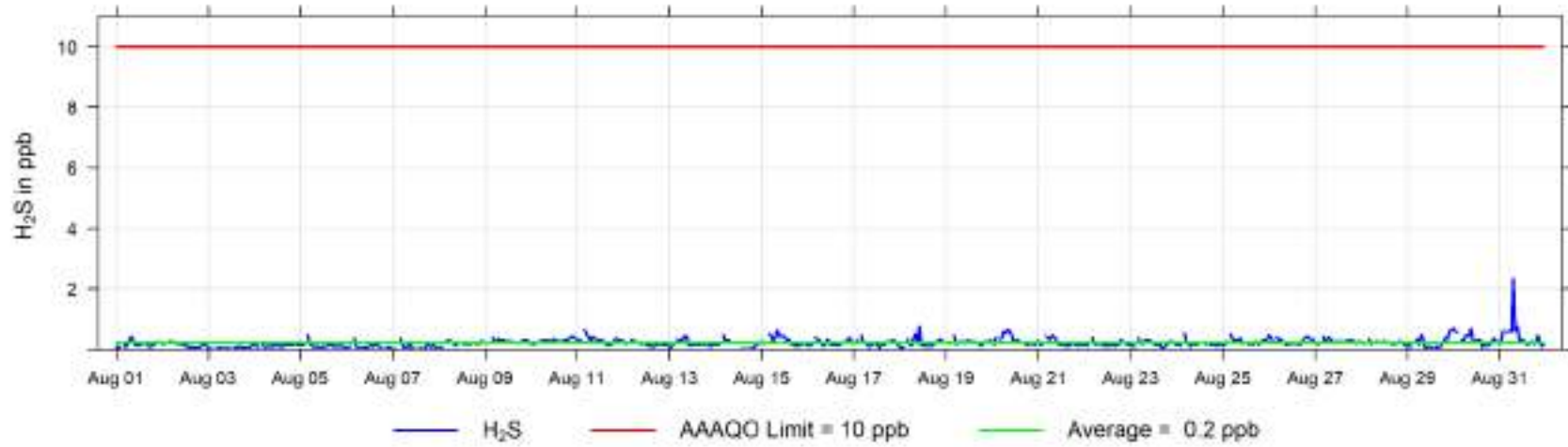
The following pages include the charts and histograms for Fox Creek Station



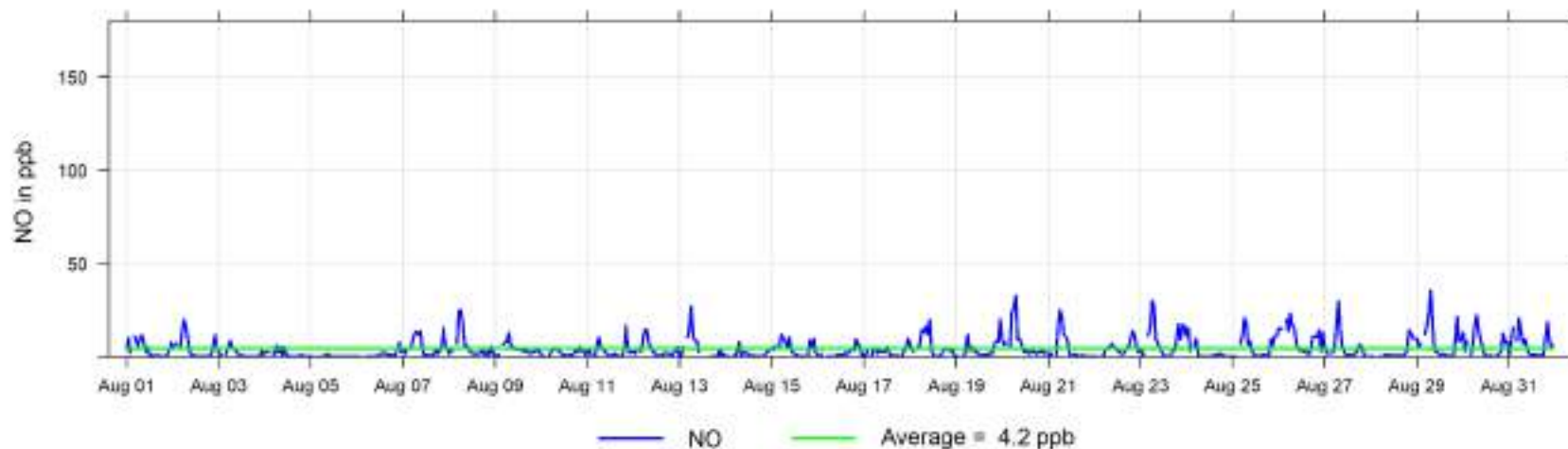
August 2024 Hourly Concentration Readings of SO₂ (in ppb) at Fox Creek



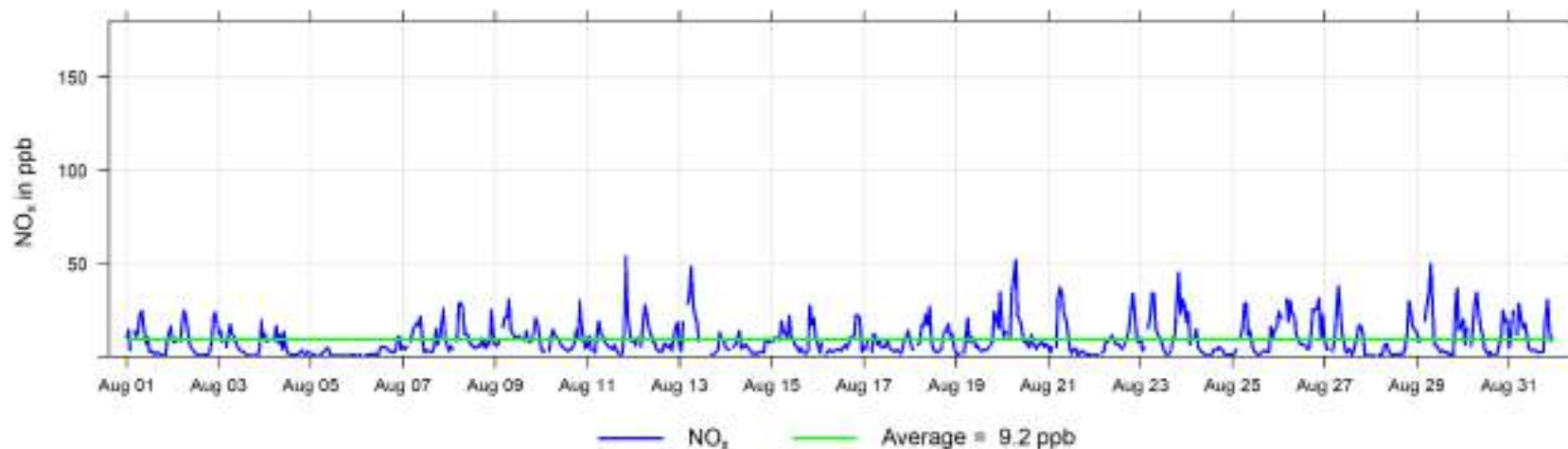
August 2024 Hourly Concentration Readings of H₂S (in ppb) at Fox Creek



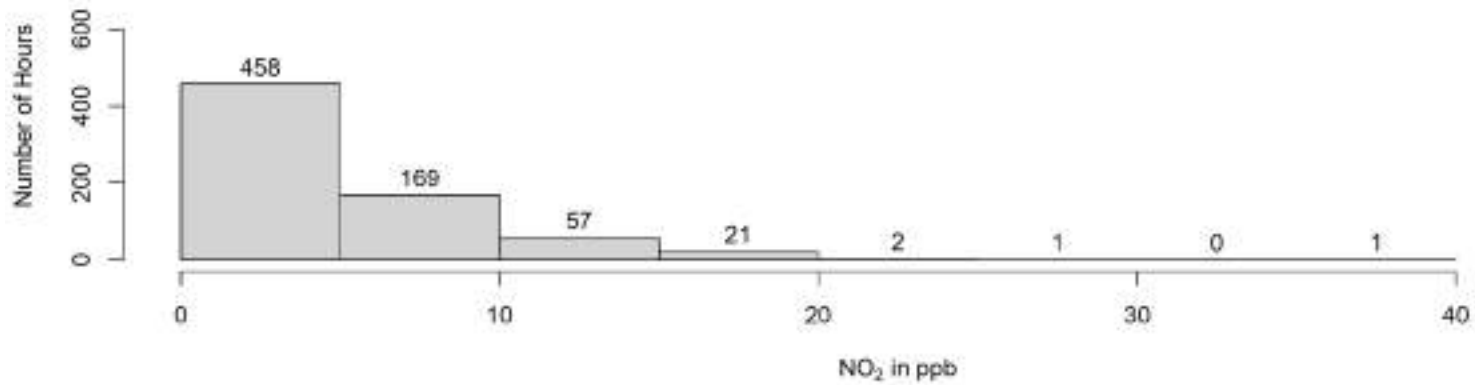
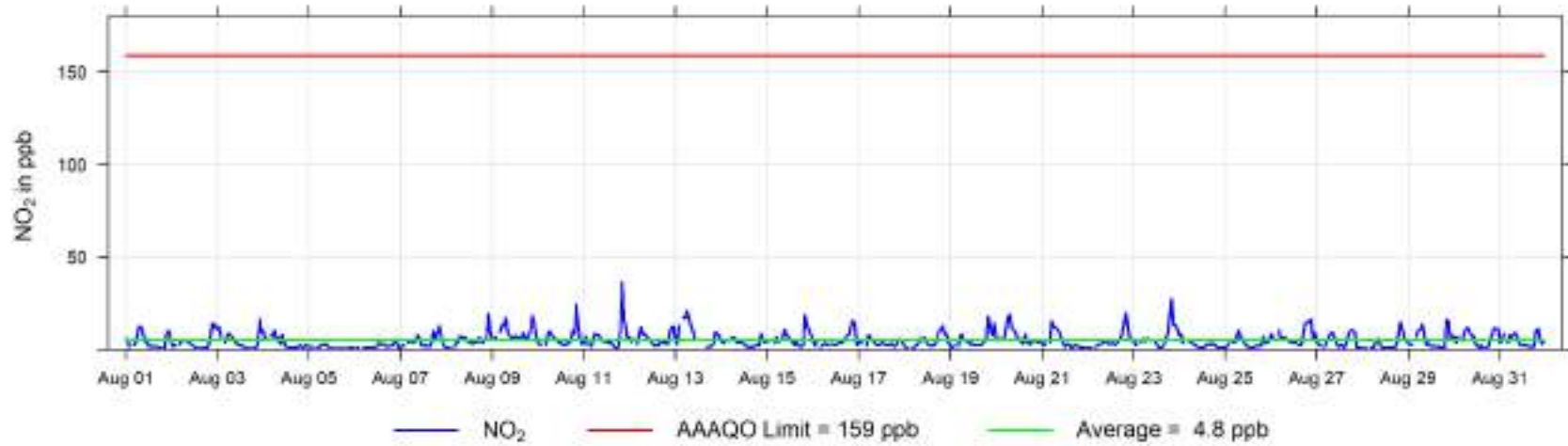
August 2024 Hourly Concentration Readings of NO (in ppb) at Fox Creek



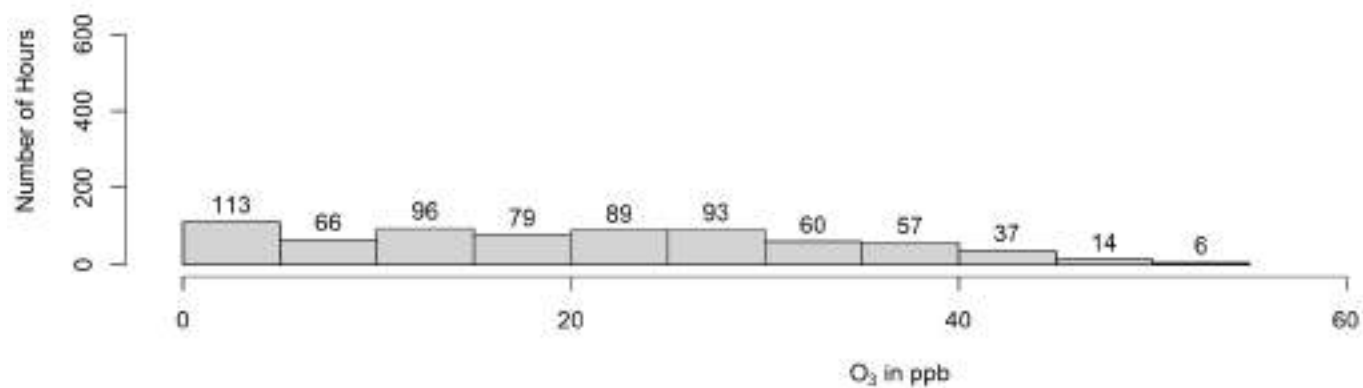
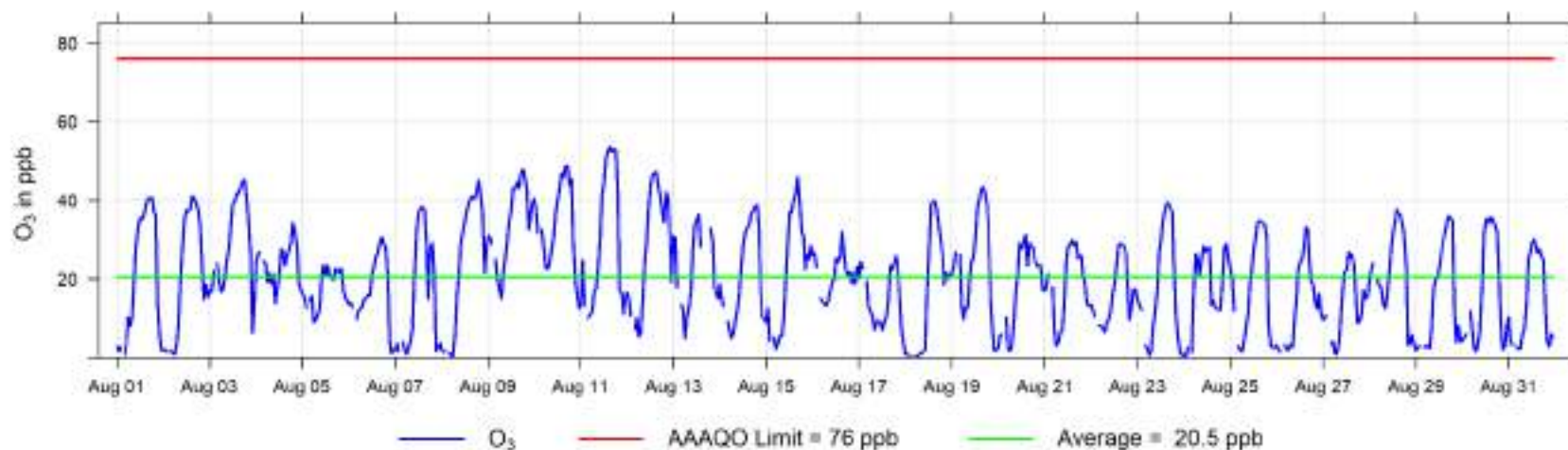
August 2024 Hourly Concentration Readings of NO_x (in ppb) at Fox Creek



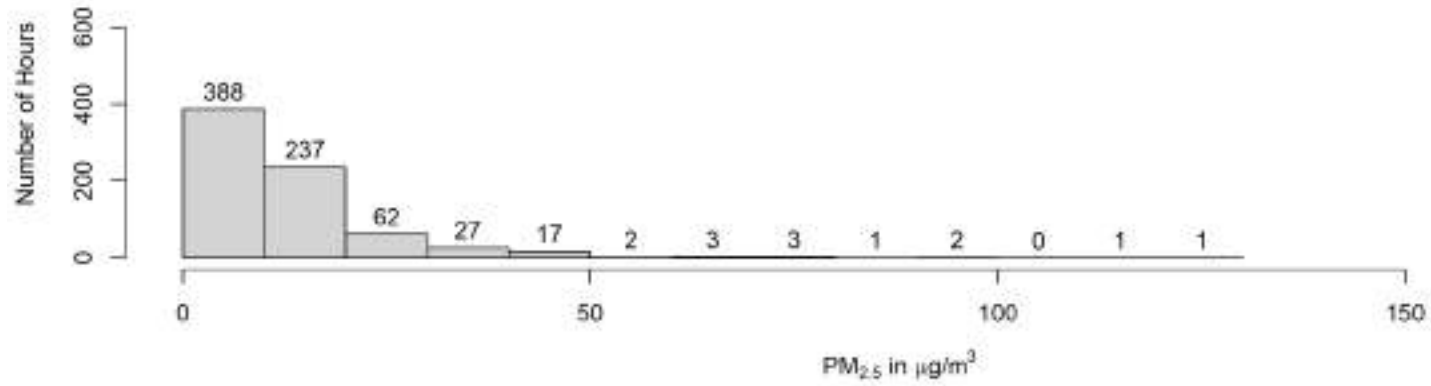
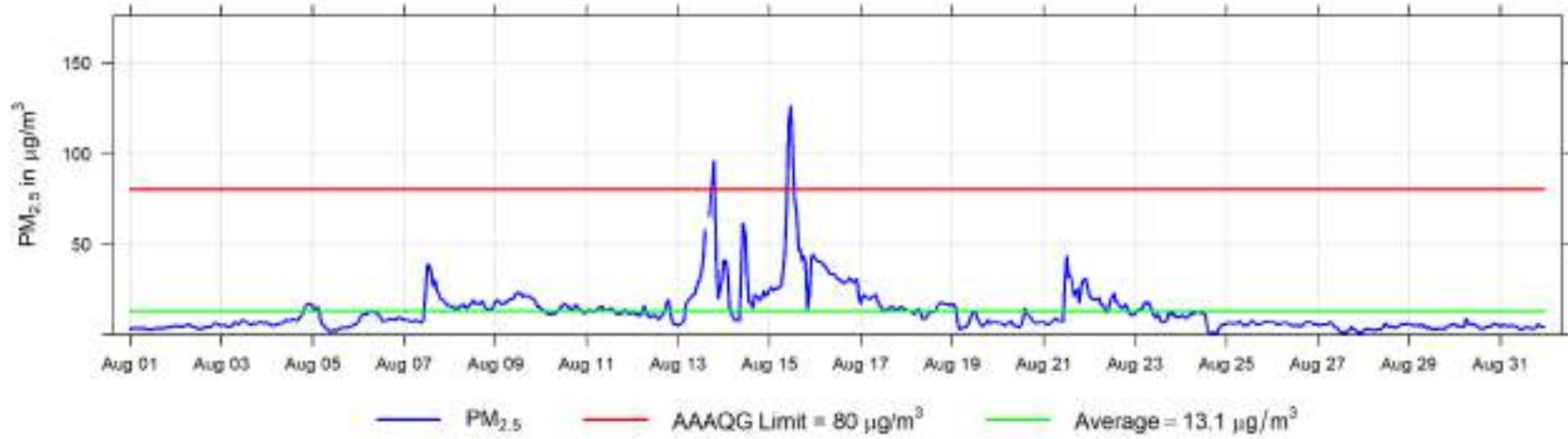
August 2024 Hourly Concentration Readings of NO₂ (in ppb) at Fox Creek



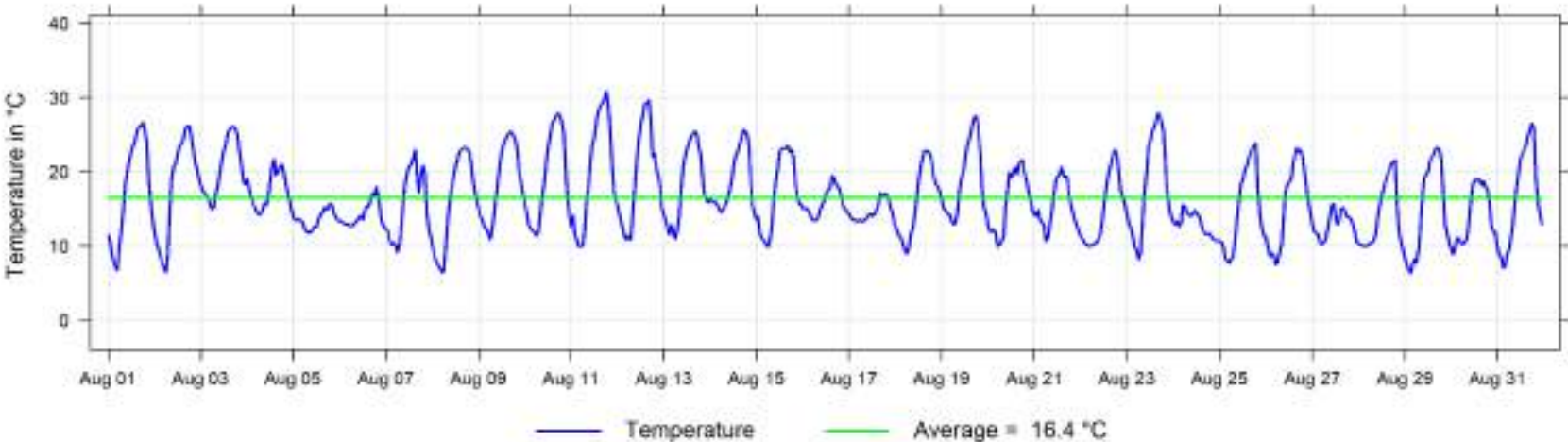
August 2024 Hourly Concentration Readings of O₃ (in ppb) at Fox Creek



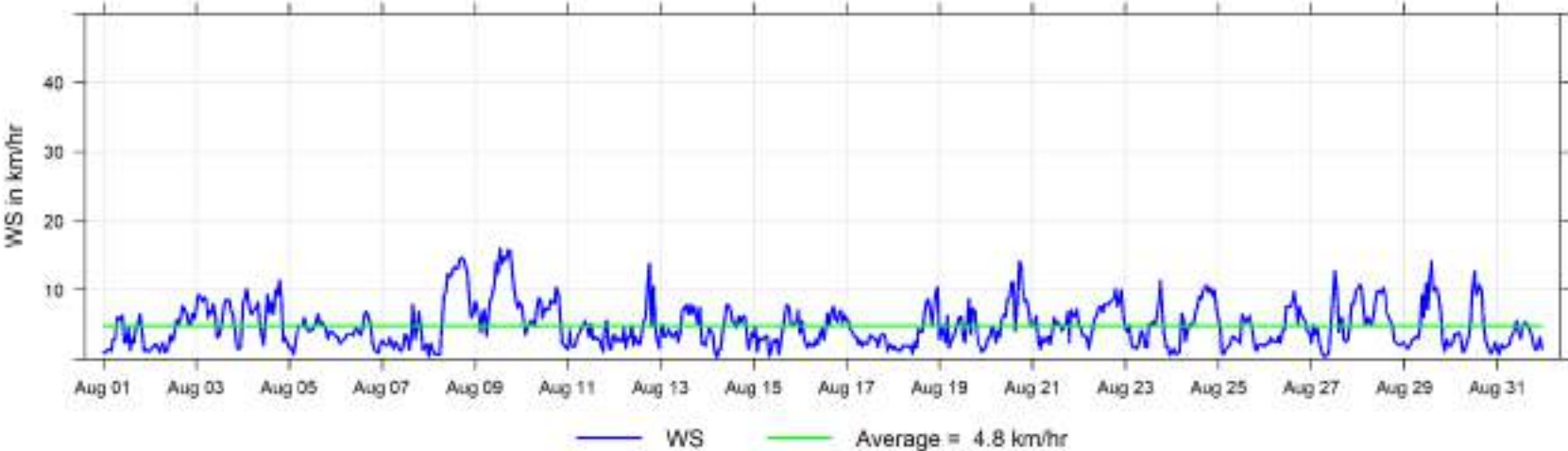
August 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



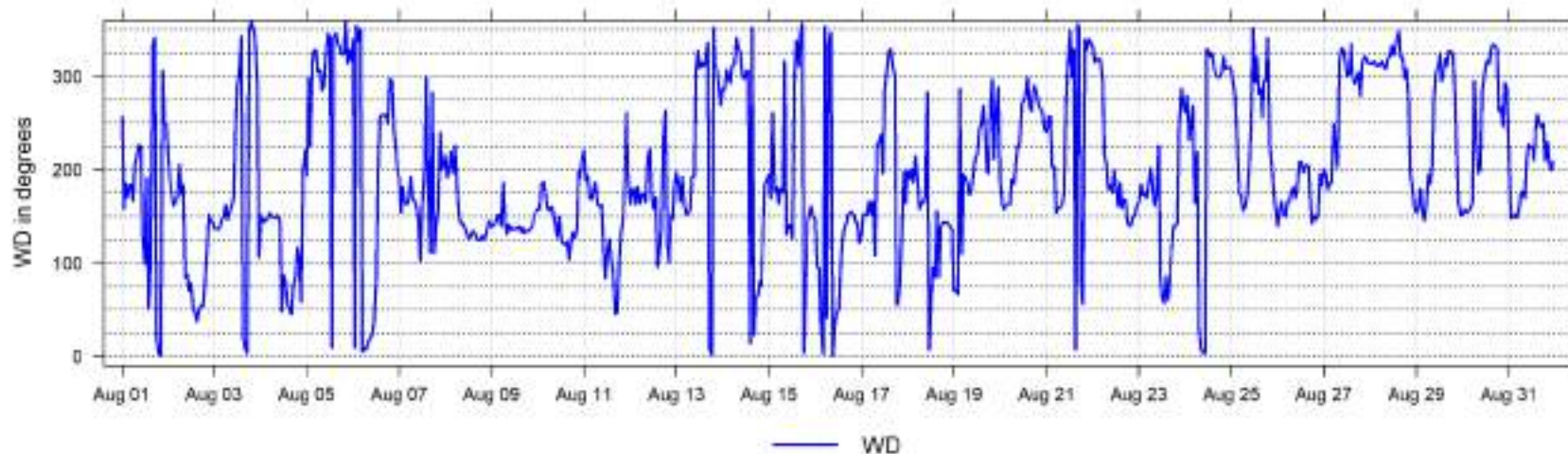
August 2024 Hourly Temperature Readings (in °C) at Fox Creek



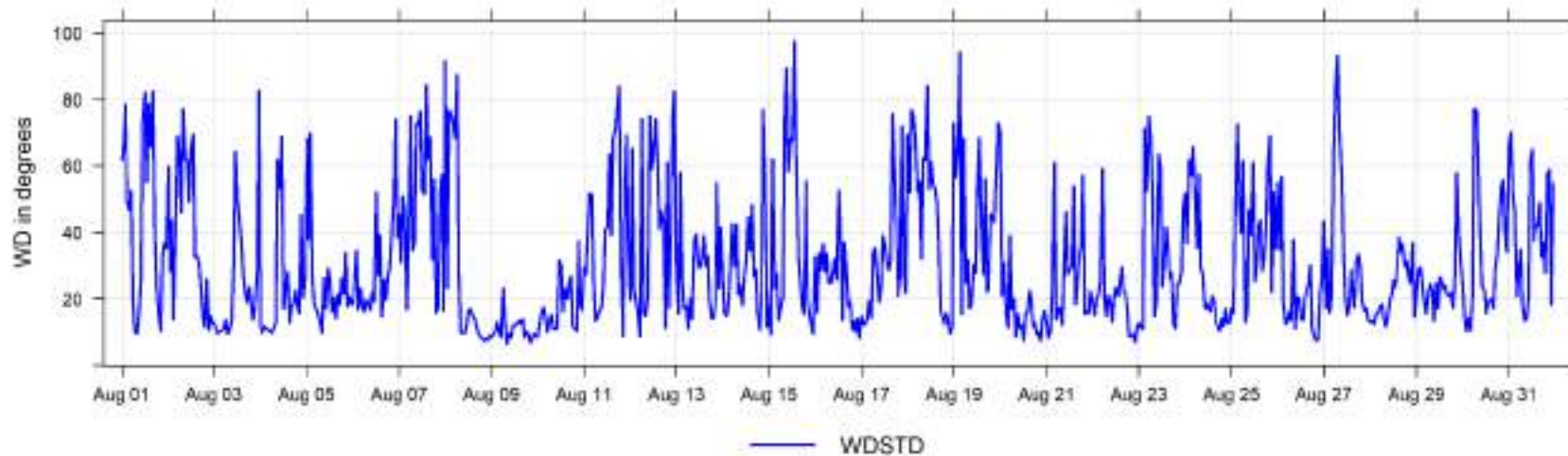
August 2024 Hourly Readings of Wind Speed (in km/hr) at Fox Creek

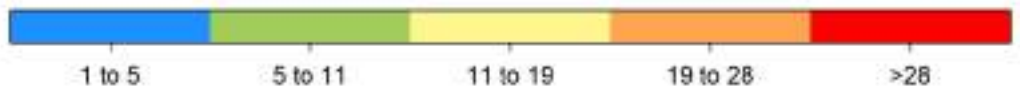
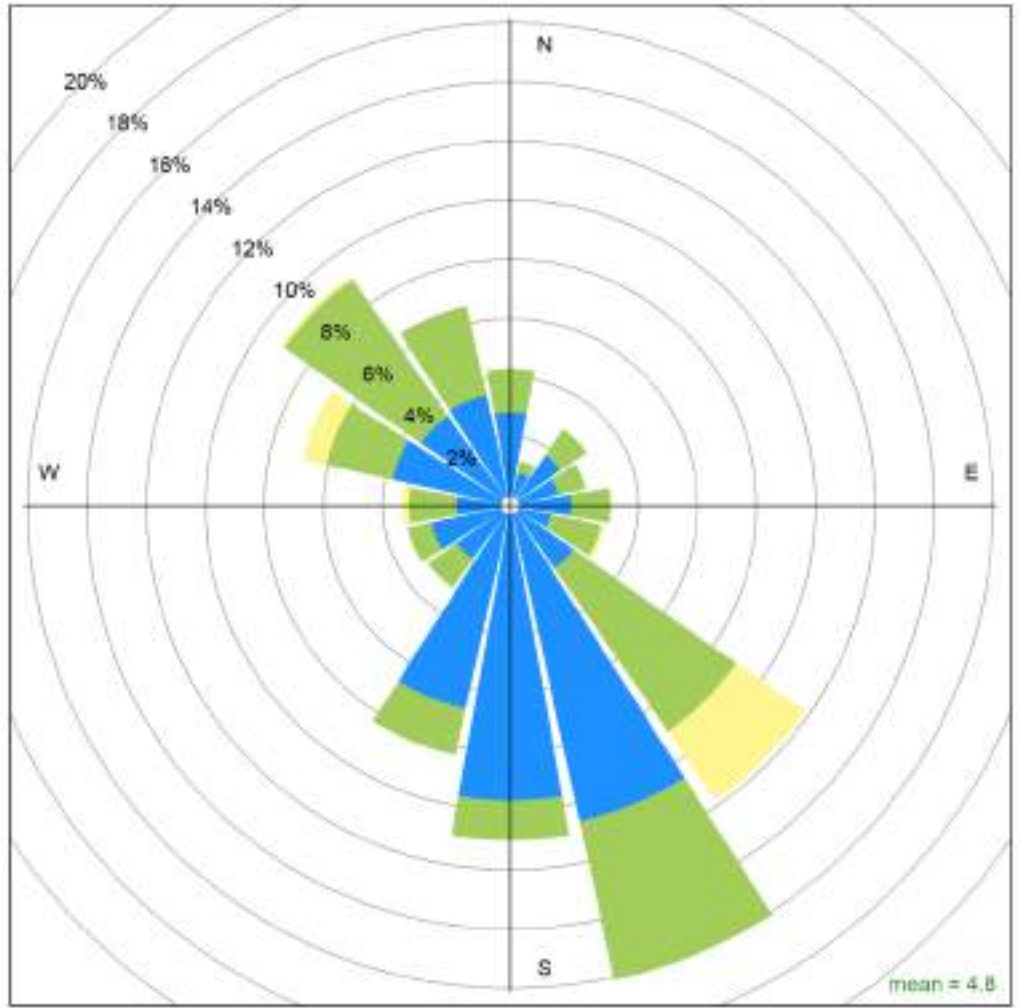


August 2024 Hourly Readings of Wind Direction (in degrees) at Fox Creek



August 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Fox Creek



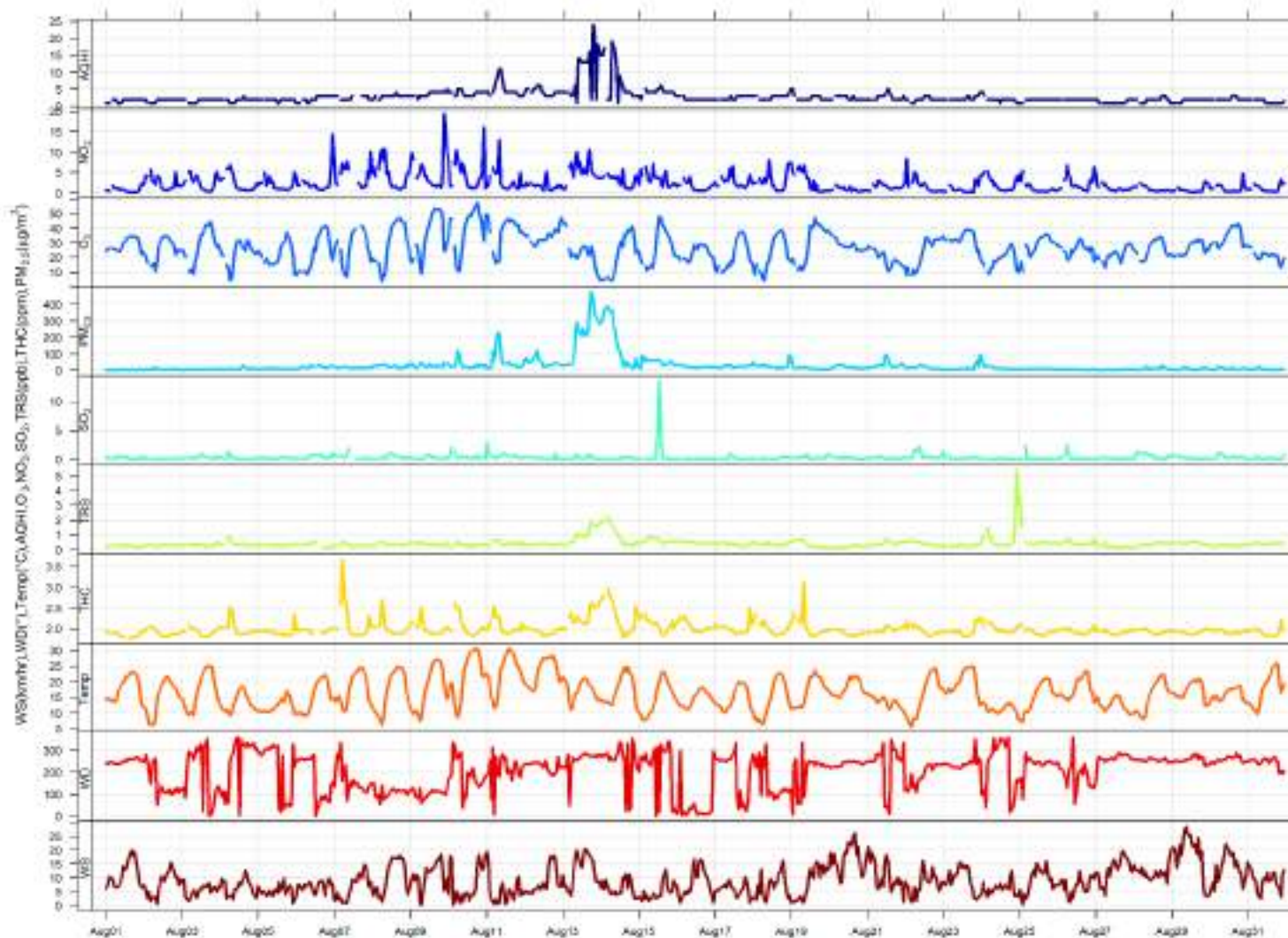


Fox Creek August 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 3.9 %

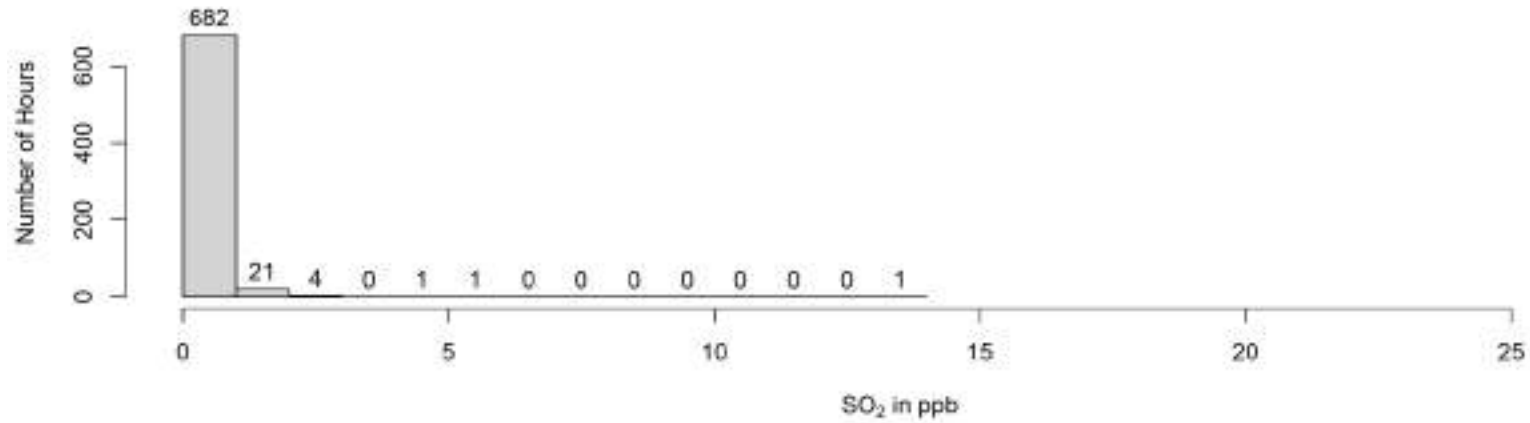
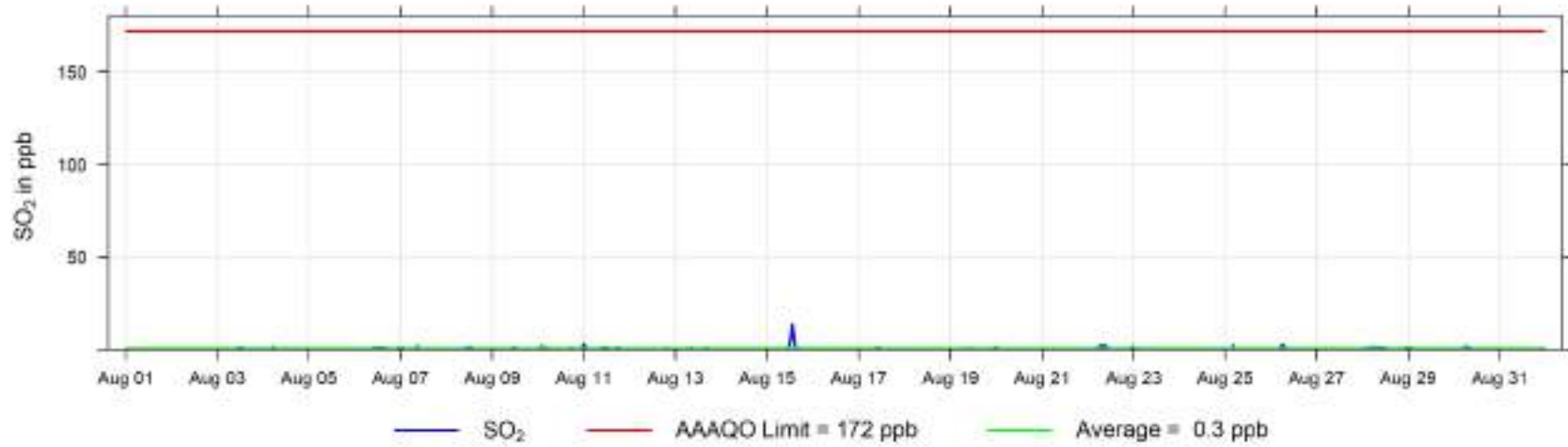
8 Happy Valley (Portable) Charts

The following pages include the charts and histograms for Happy Valley Portable Station

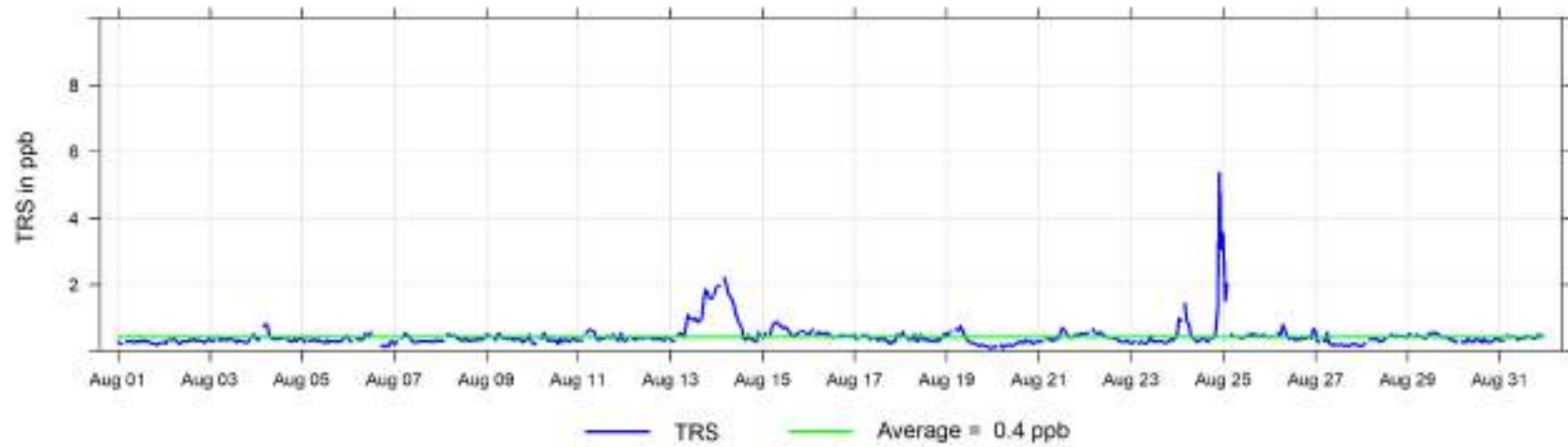
August 2024 Concentration Readings at Happy Valley Station



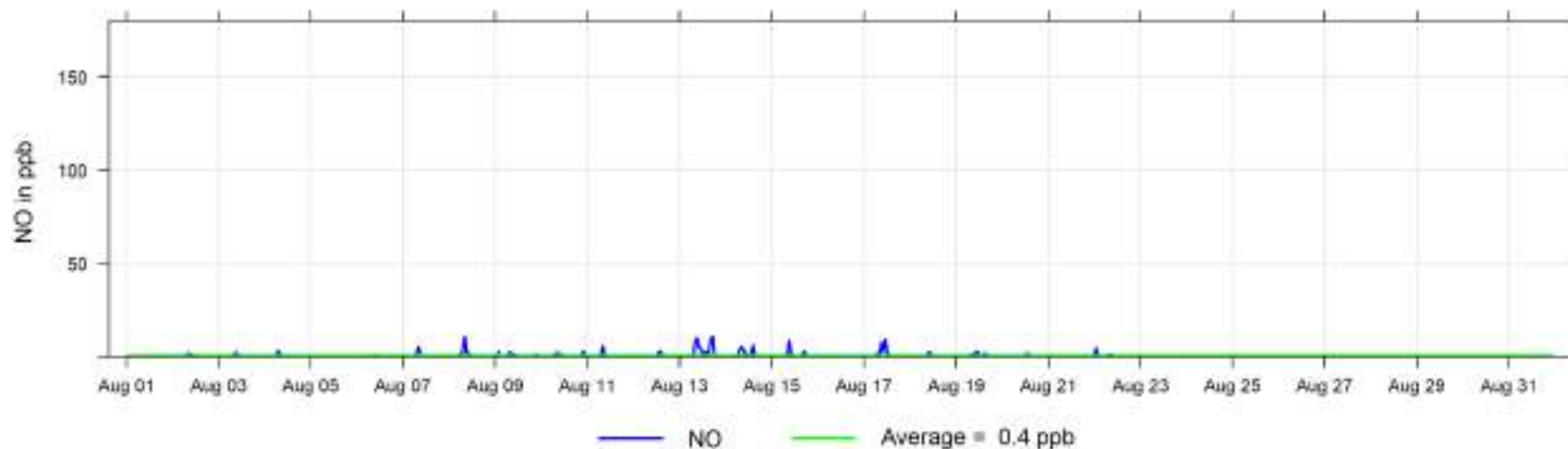
August 2024 Hourly Concentration Readings of SO₂ (in ppb) at Happy Valley



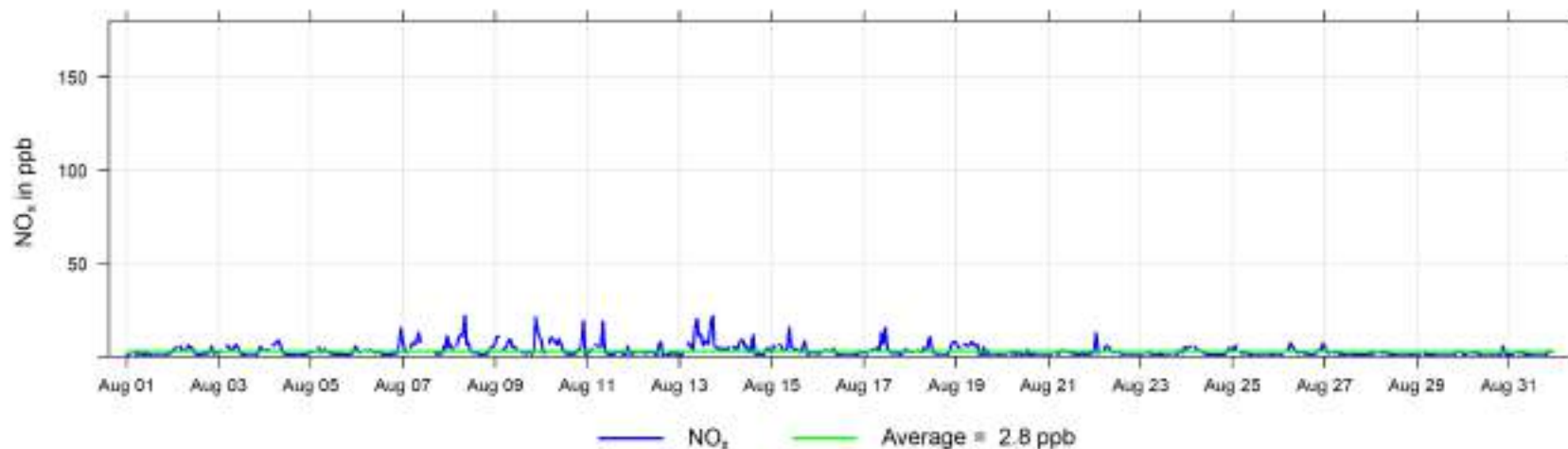
August 2024 Hourly Concentration Readings of TRS (in ppb) at Happy Valley



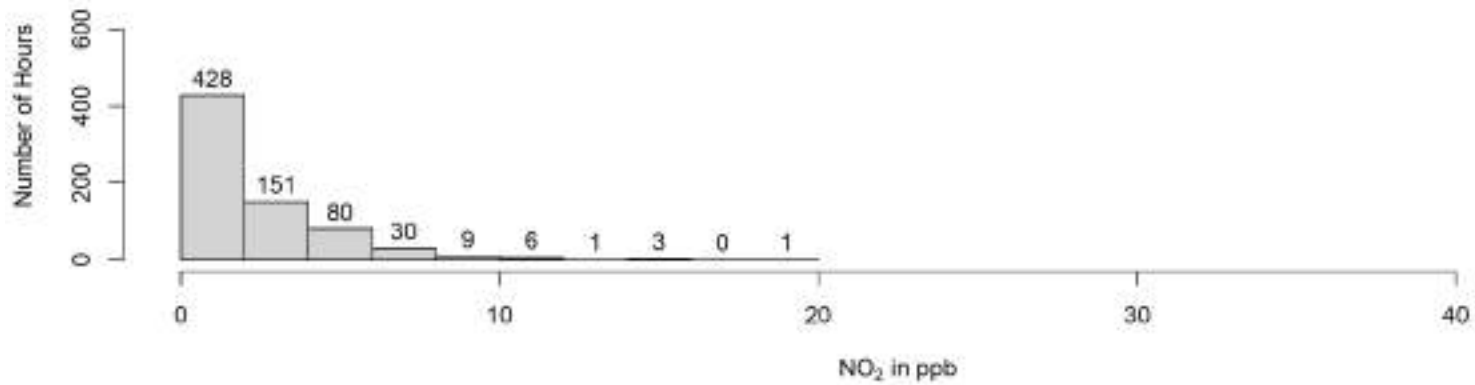
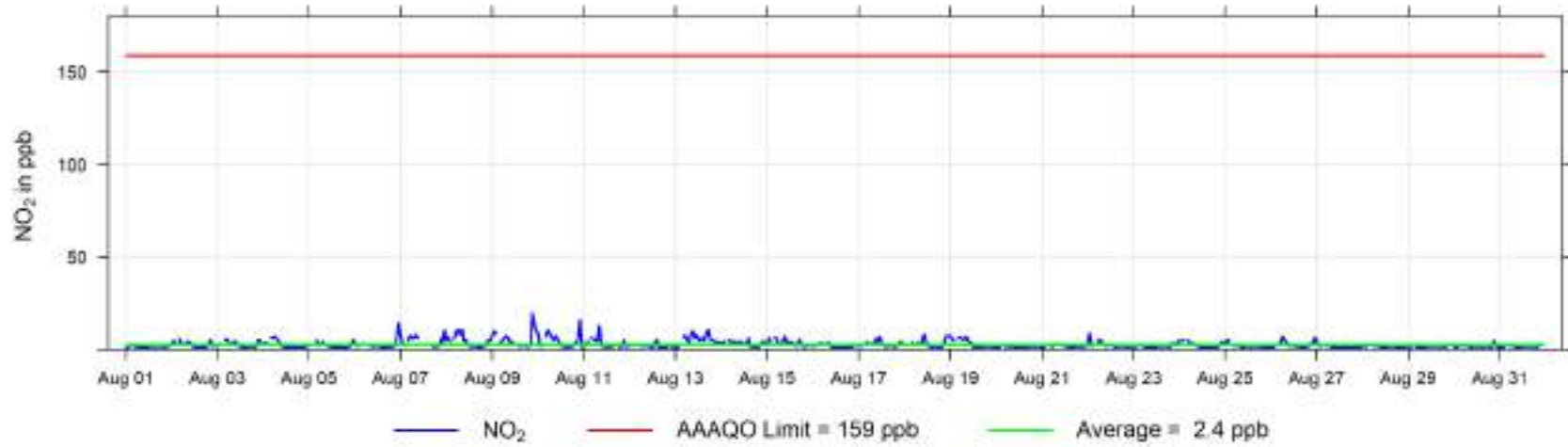
August 2024 Hourly Concentration Readings of NO (in ppb) at Happy Valley



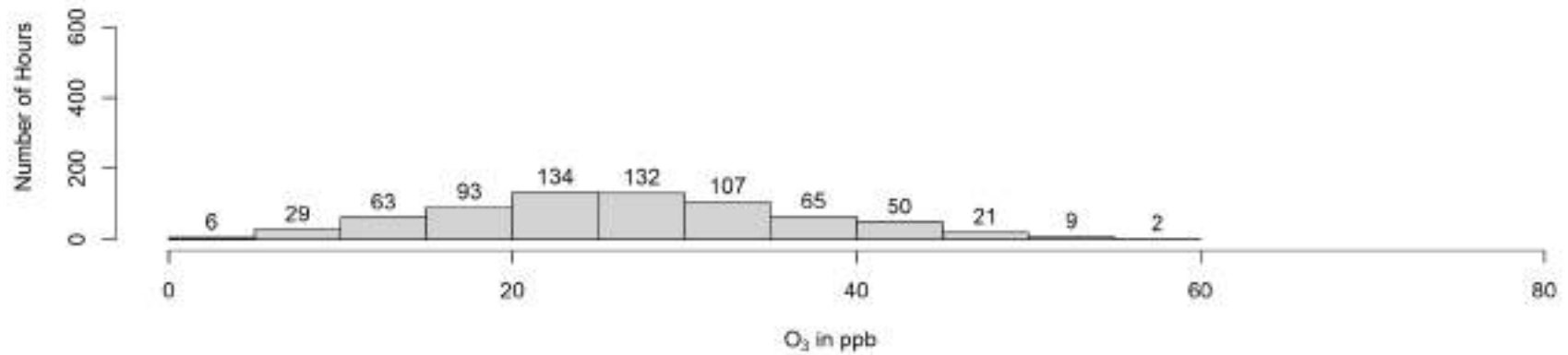
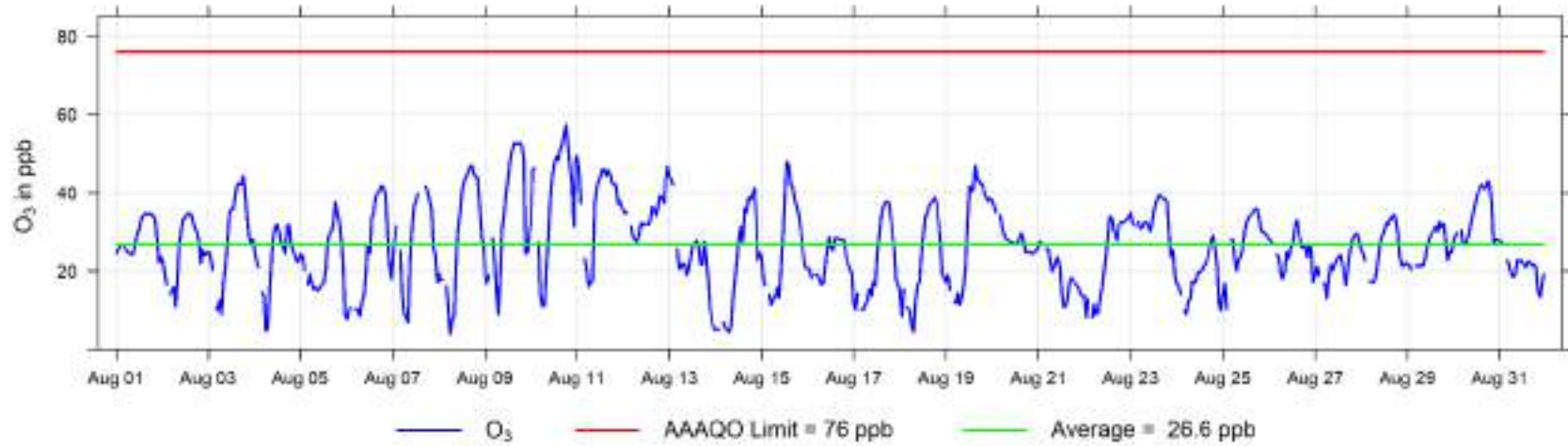
August 2024 Hourly Concentration Readings of NO_x (in ppb) at Happy Valley



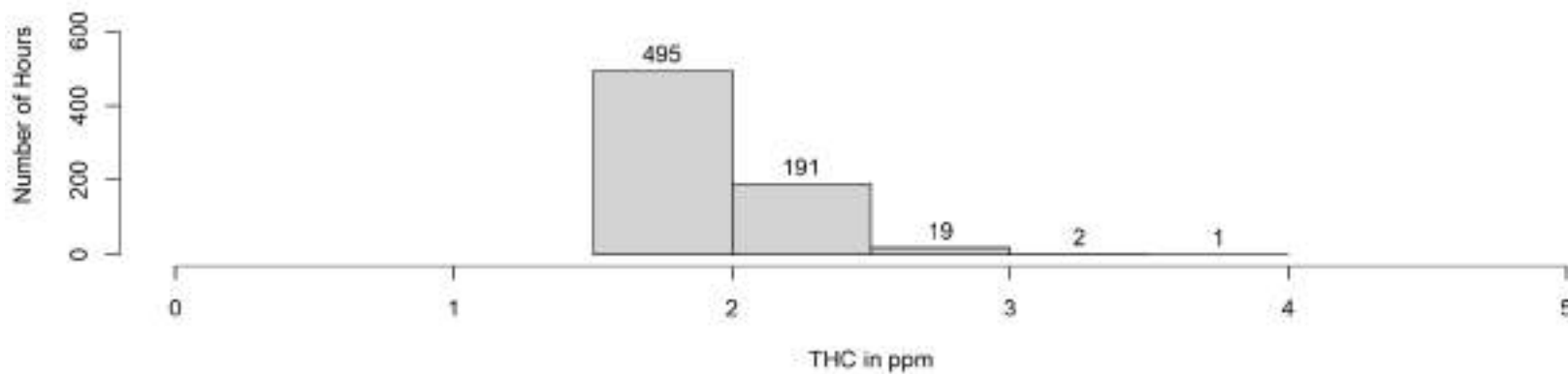
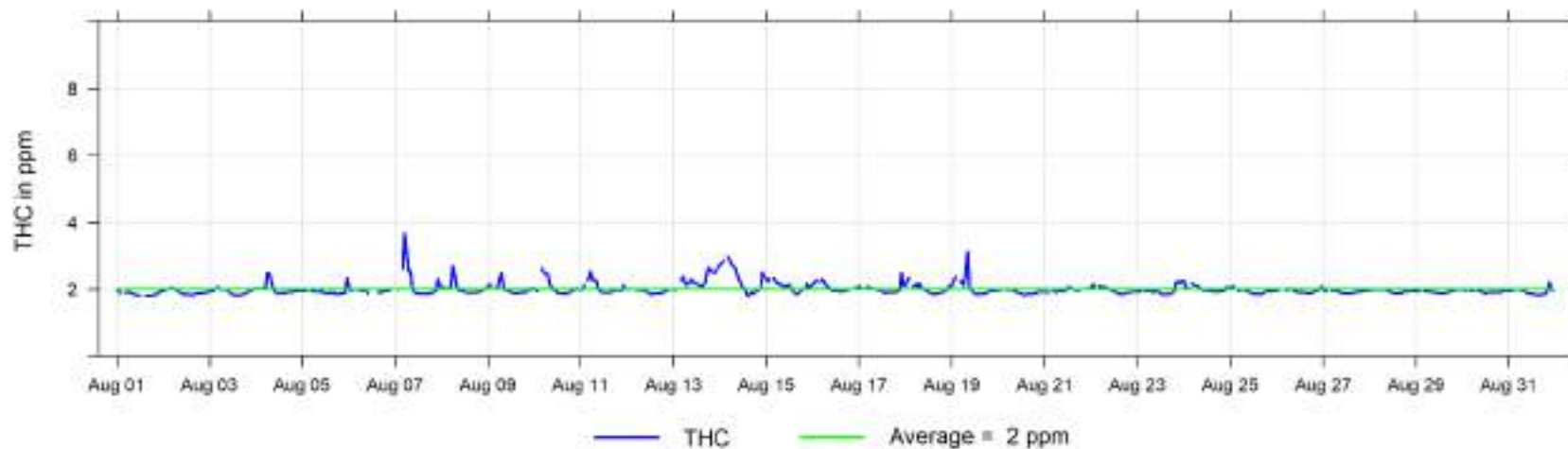
August 2024 Hourly Concentration Readings of NO₂ (in ppb) at Happy Valley



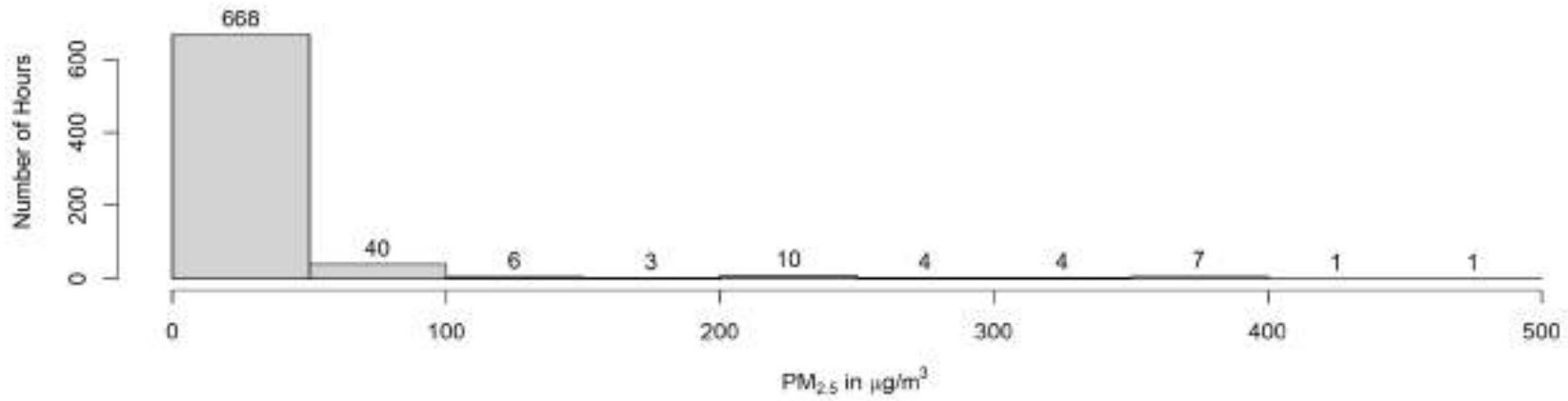
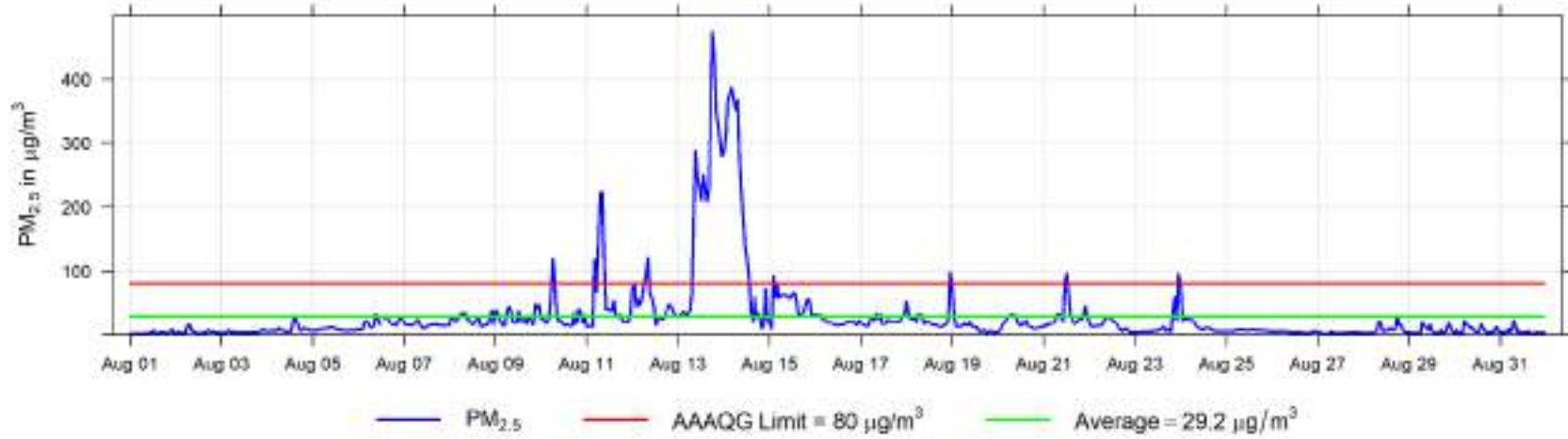
August 2024 Hourly Concentration Readings of O₃ (in ppb) at Happy Valley



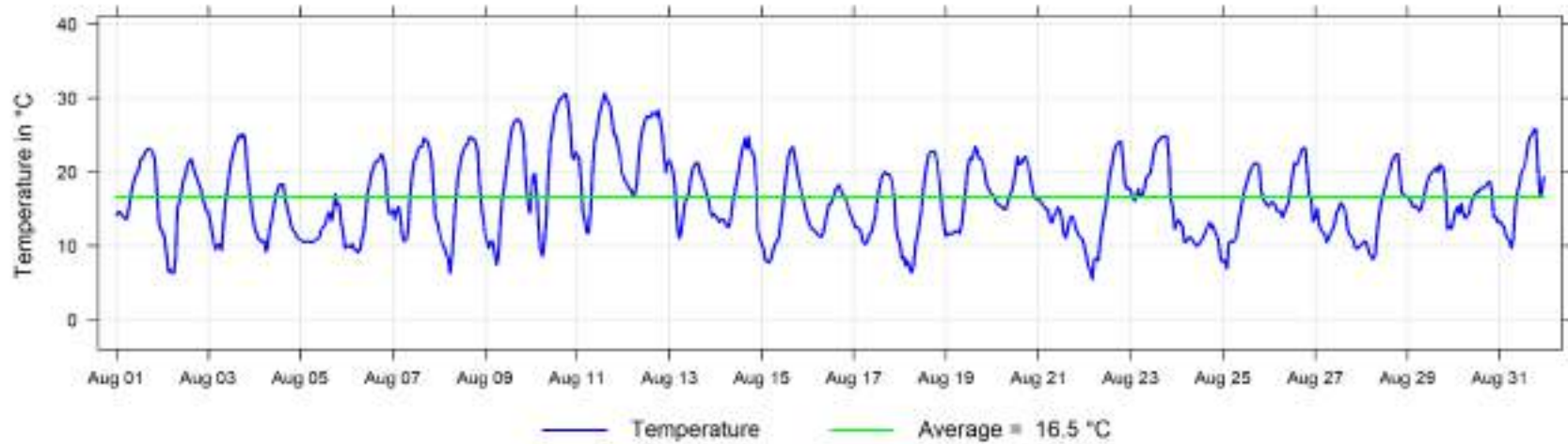
August 2024 Hourly Concentration Readings of THC (in ppm) at Happy Valley



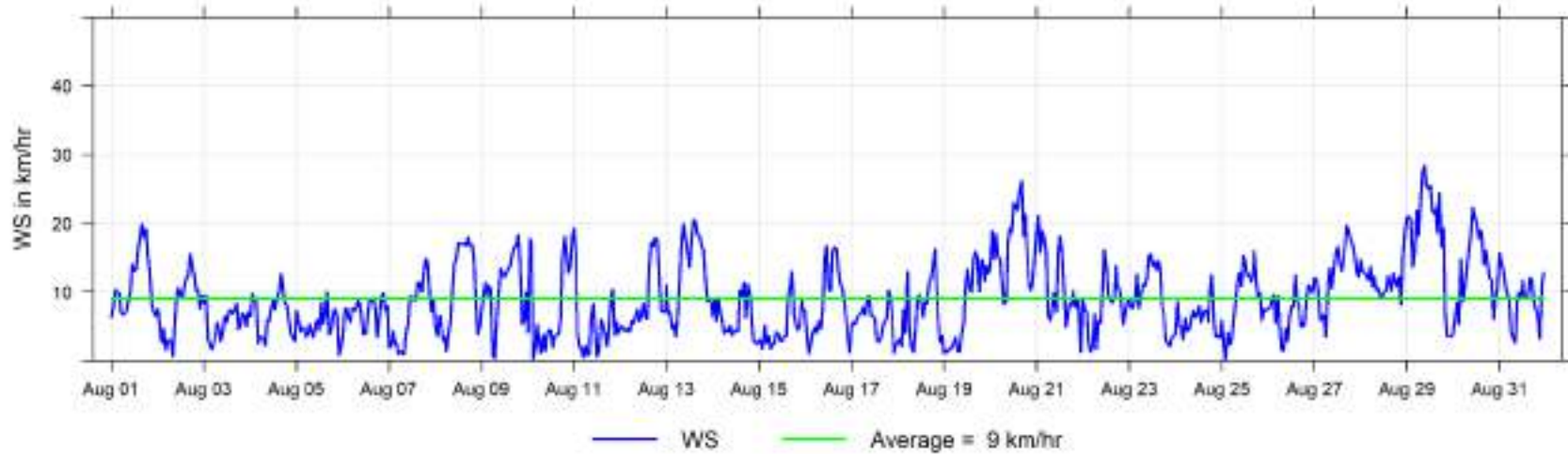
August 2024 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Happy Valley



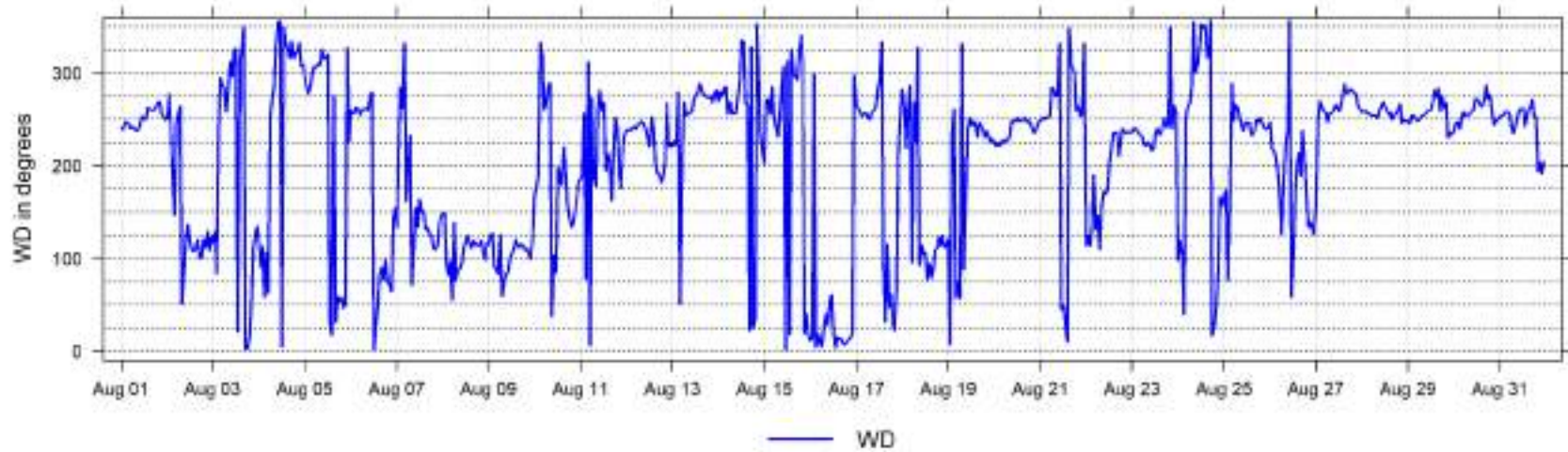
August 2024 Hourly Temperature Readings (in °C) at Happy Valley



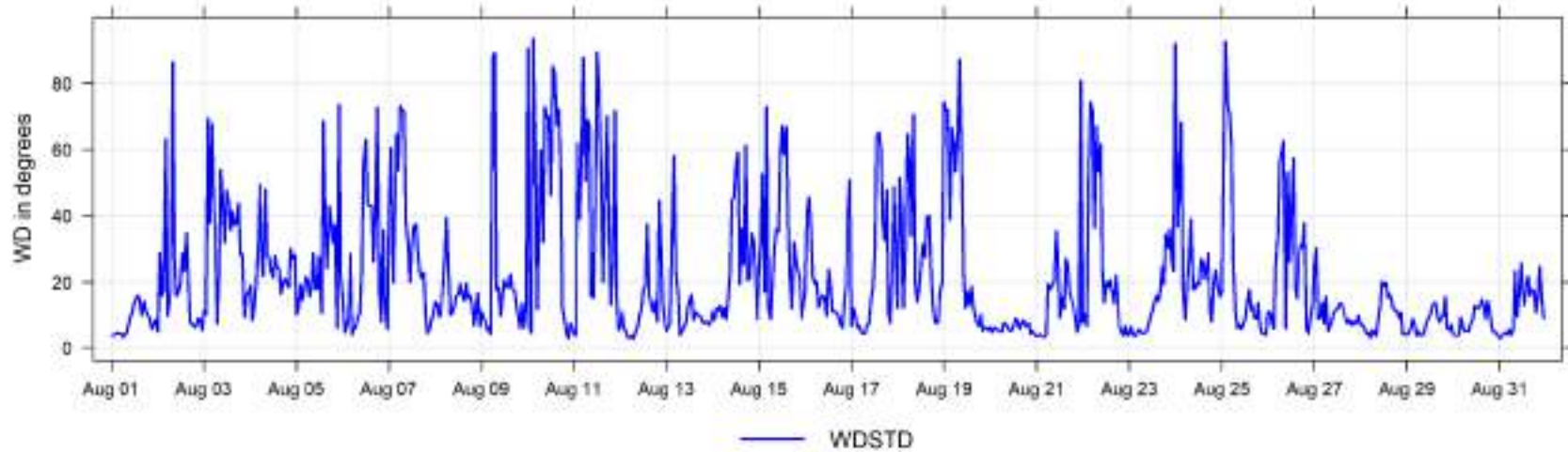
August 2024 Hourly Readings of Wind Speed (in km/hr) at Happy Valley

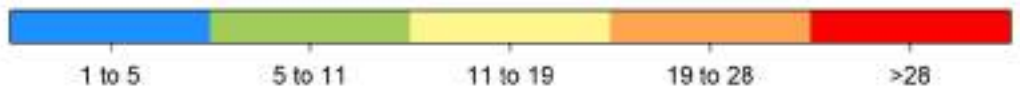
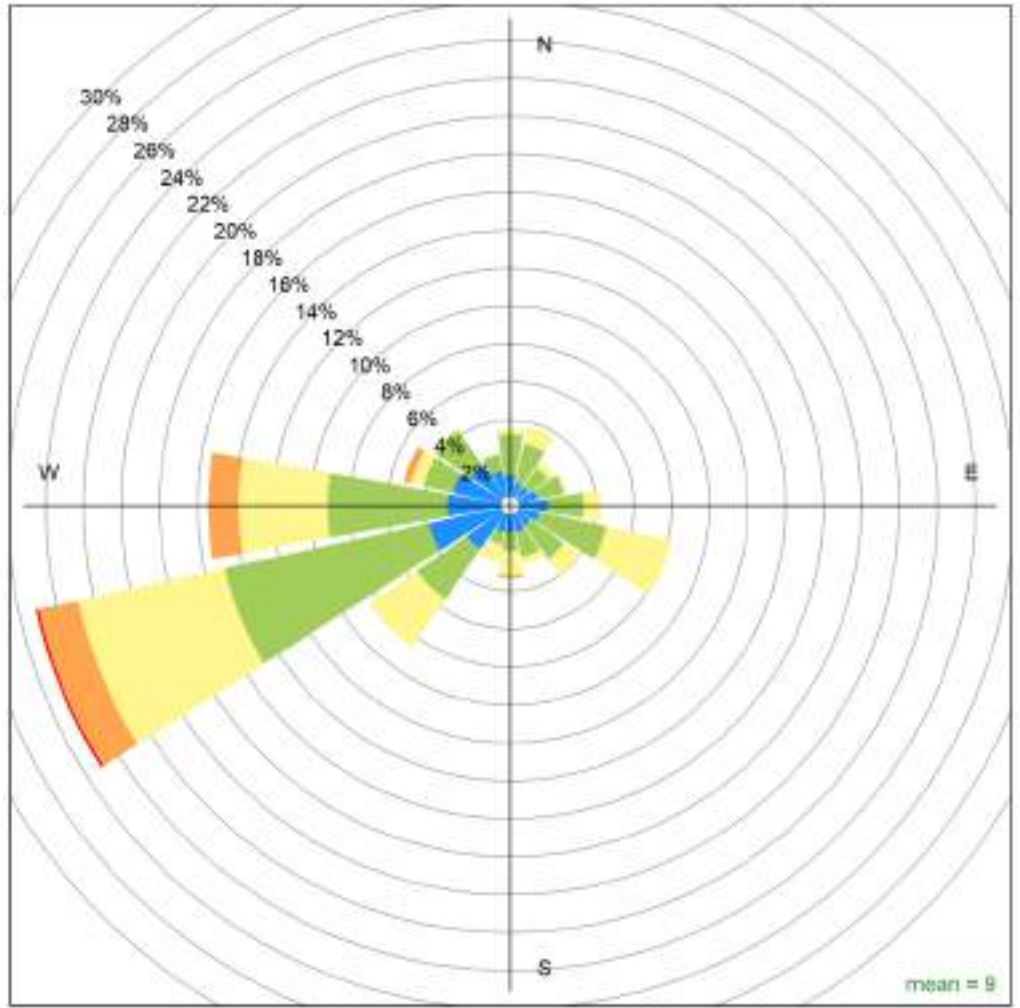


August 2024 Hourly Readings of Wind Direction (in degrees) at Happy Valley



August 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Happy Valley

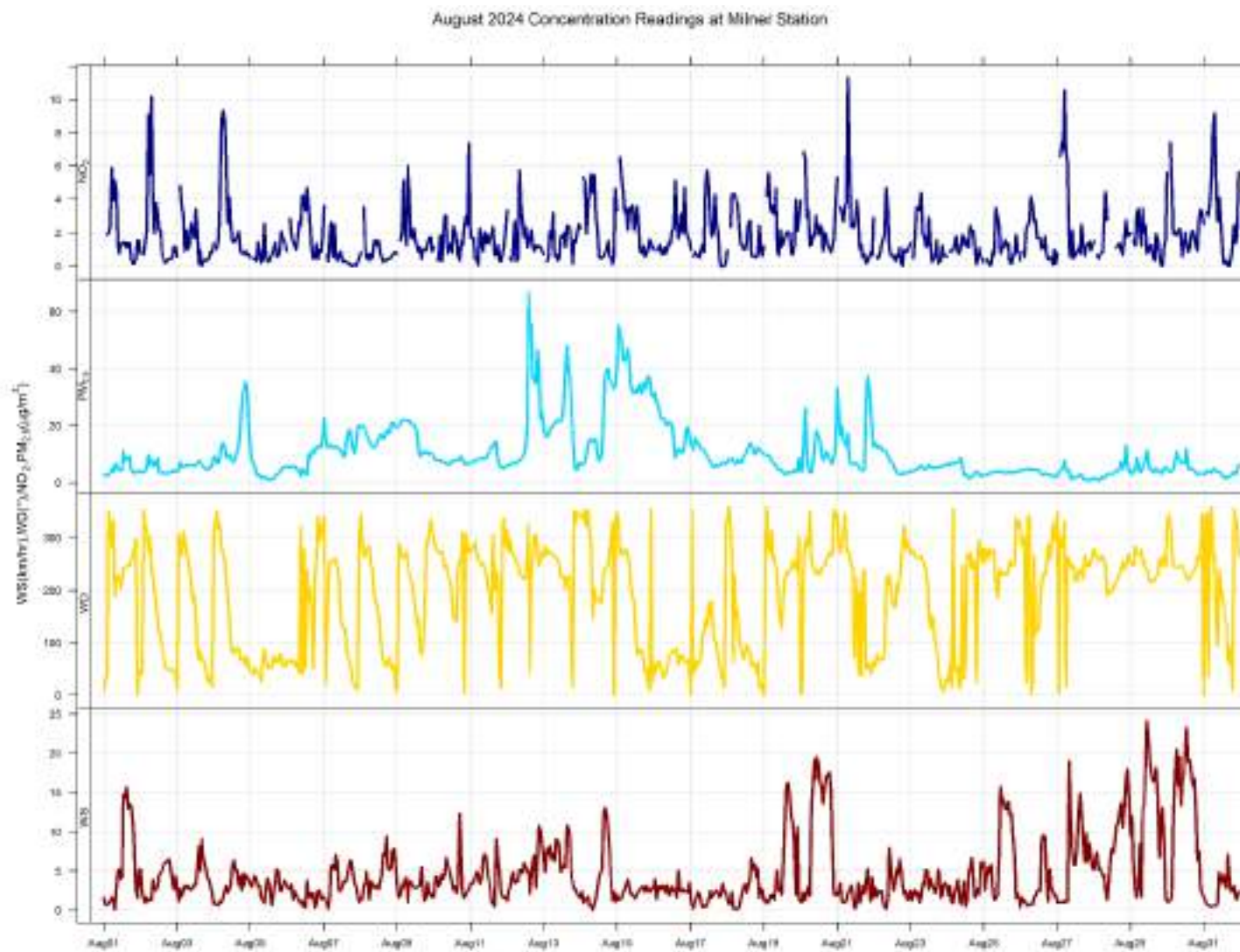




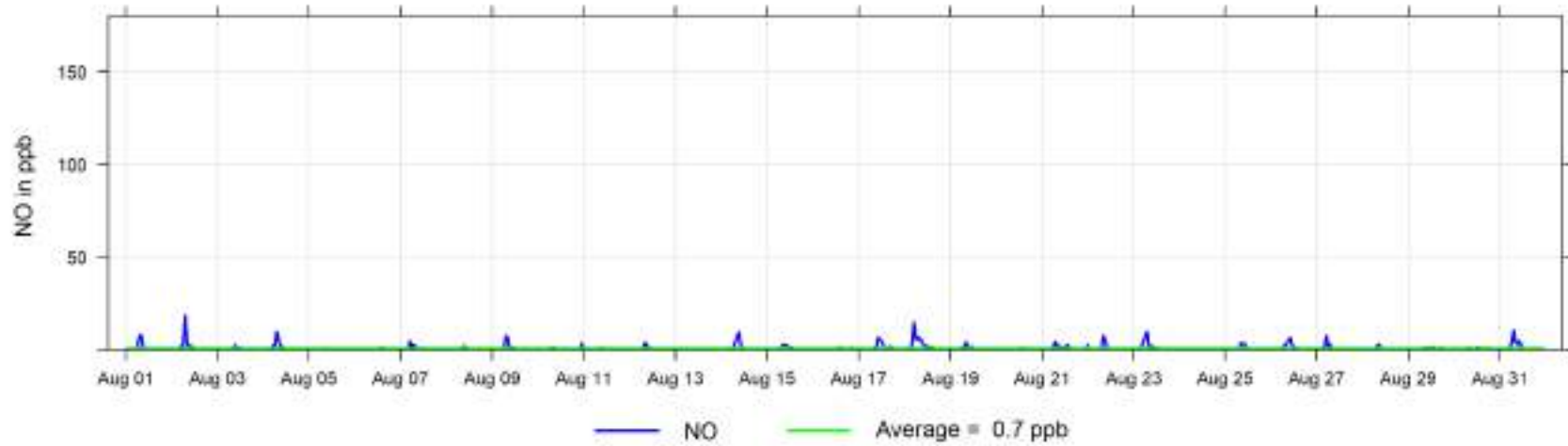
Happy Valley August 2024 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 1.7 %

9 Milner Charts

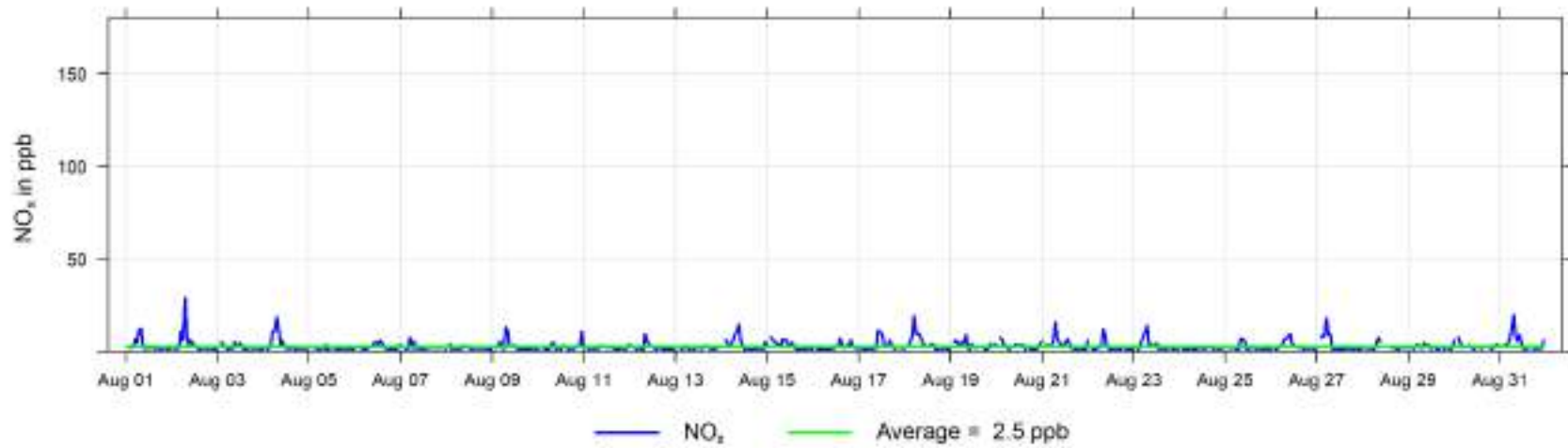
The following pages include the charts and histograms for Milner Station



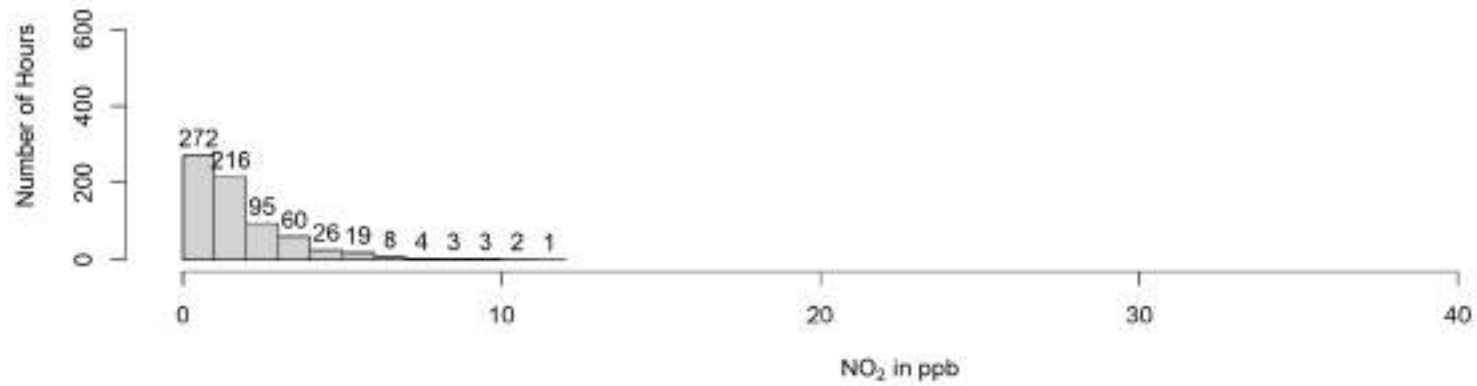
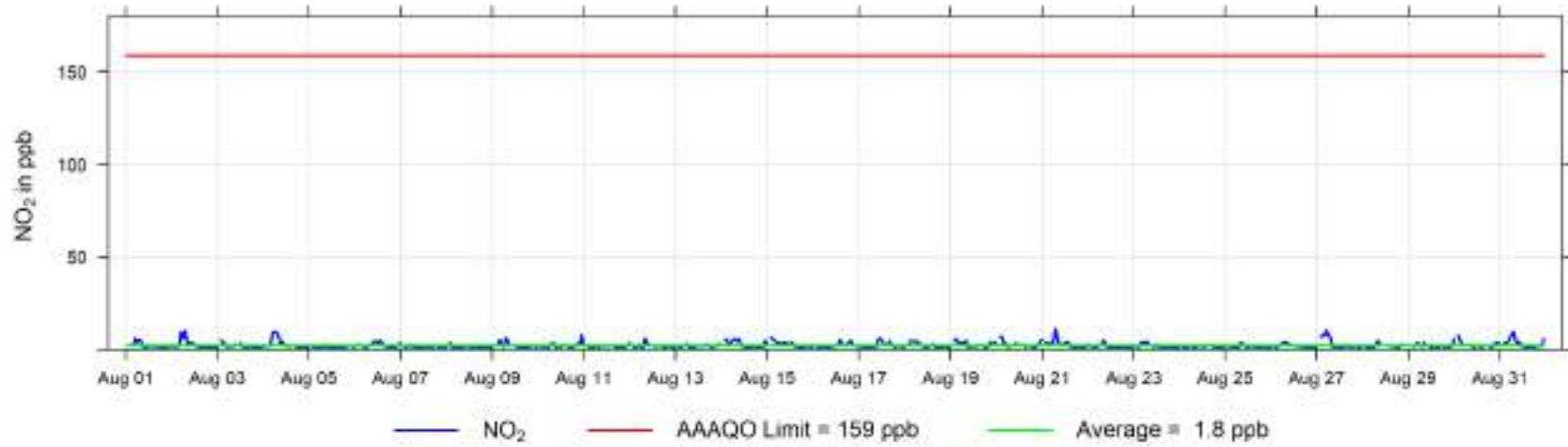
August 2024 Hourly Concentration Readings of NO (in ppb) at Milner



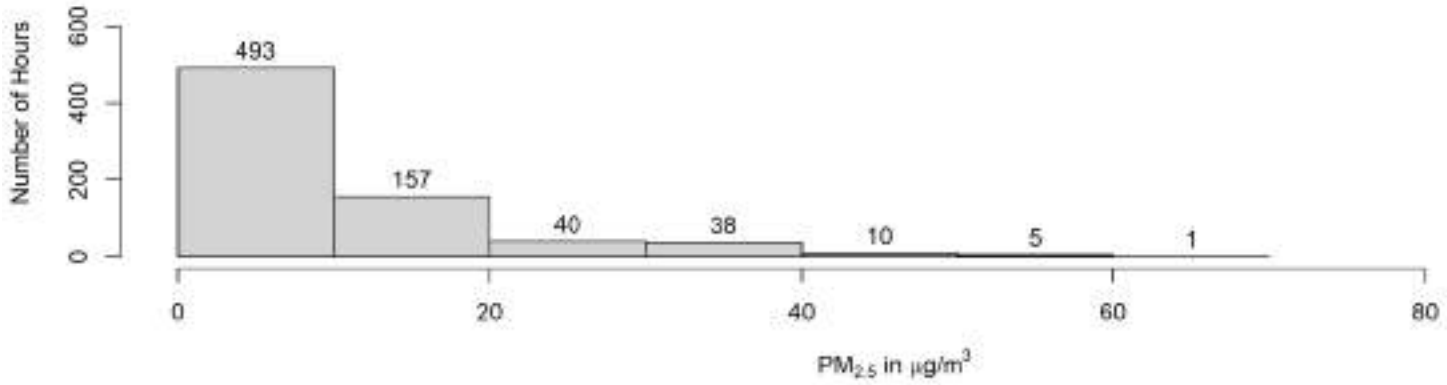
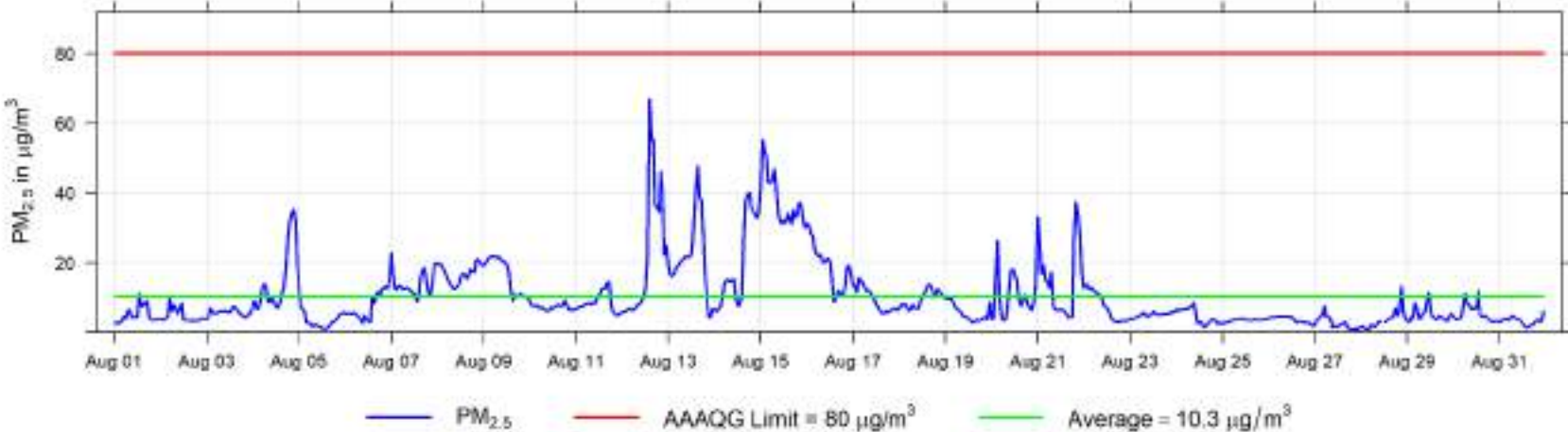
August 2024 Hourly Concentration Readings of NO_x (in ppb) at Milner



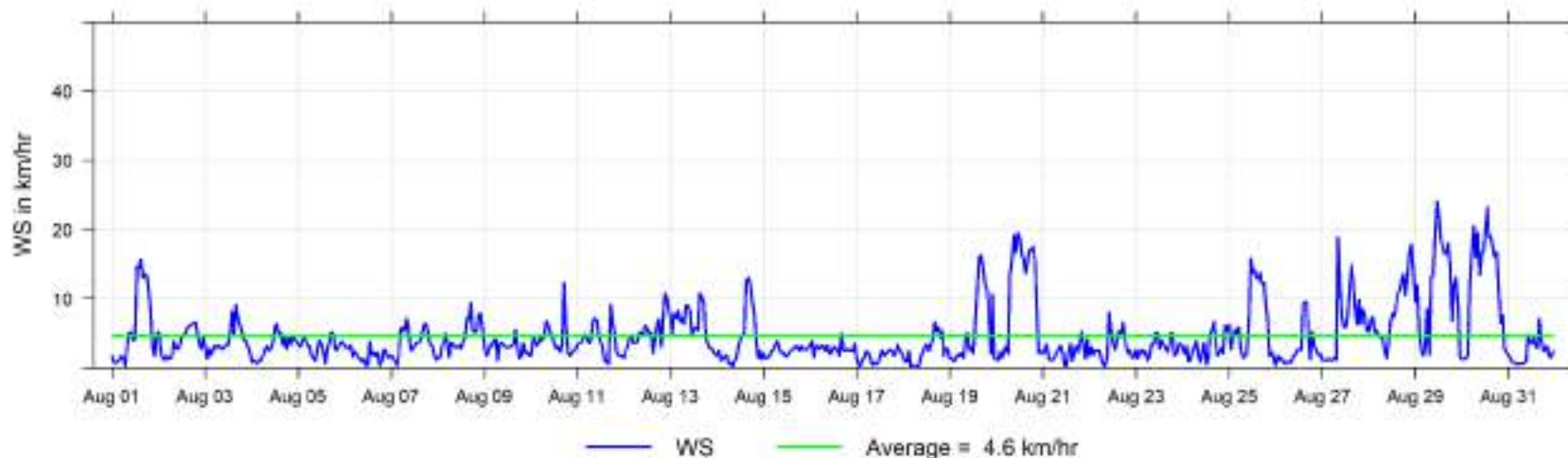
August 2024 Hourly Concentration Readings of NO₂ (in ppb) at Milner



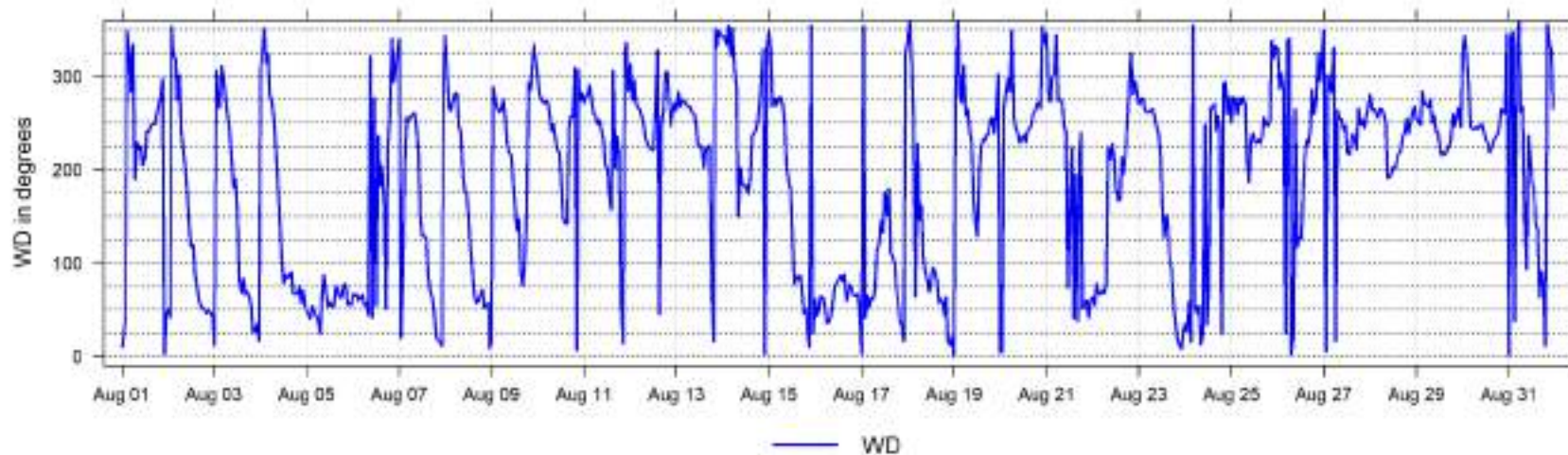
August 2024 Hourly Concentration Readings of PM_{2.5} in µg/m³ at Milner



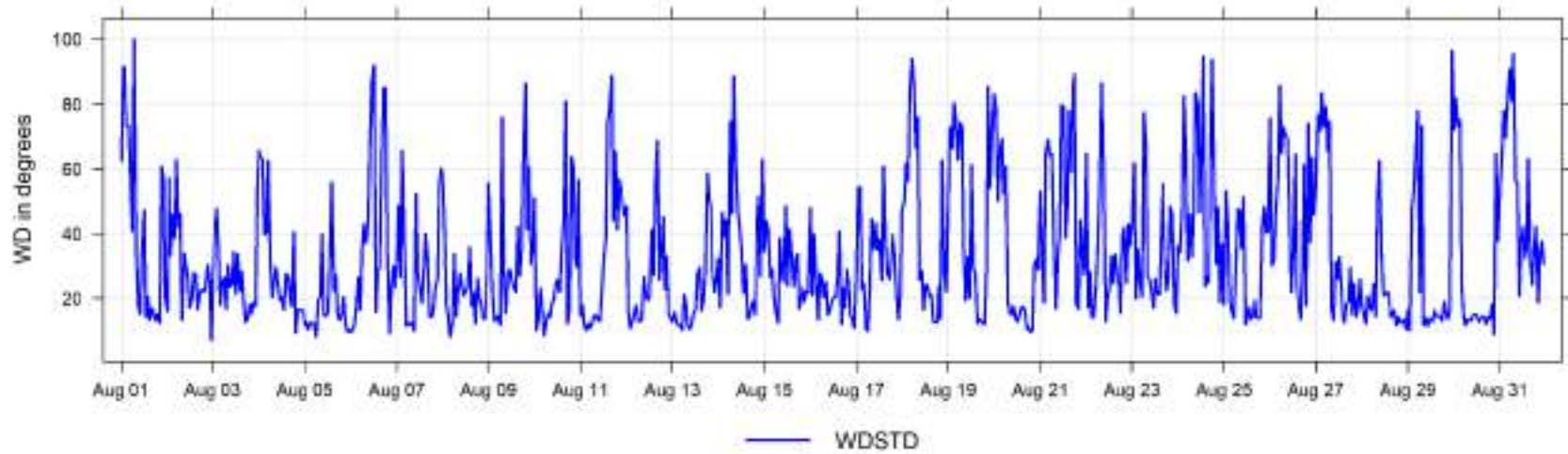
August 2024 Hourly Readings of Wind Speed (in km/hr) at Milner

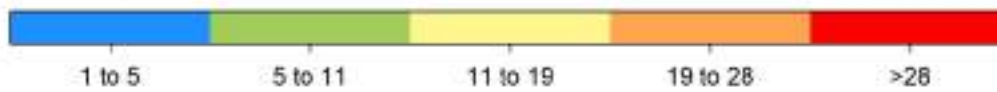
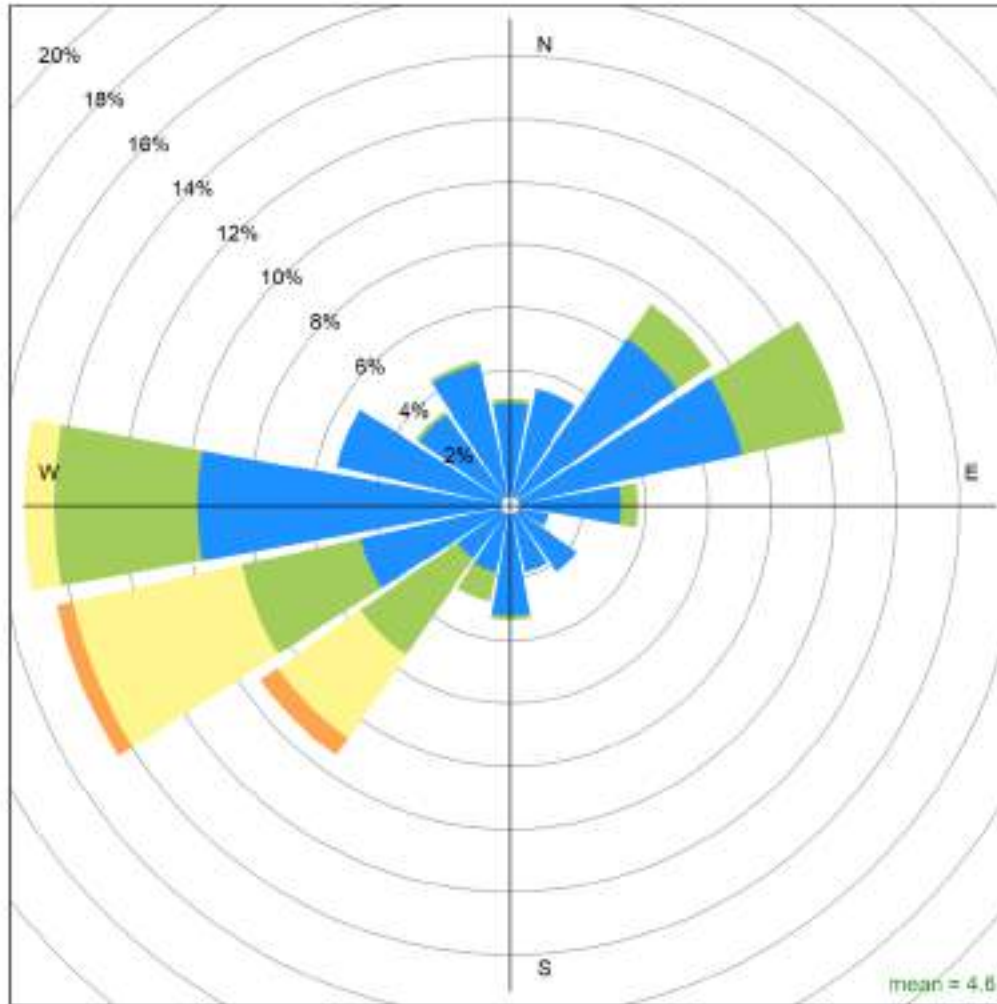


August 2024 Hourly Readings of Wind Direction (in degrees) at Milner



August 2024 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Milner

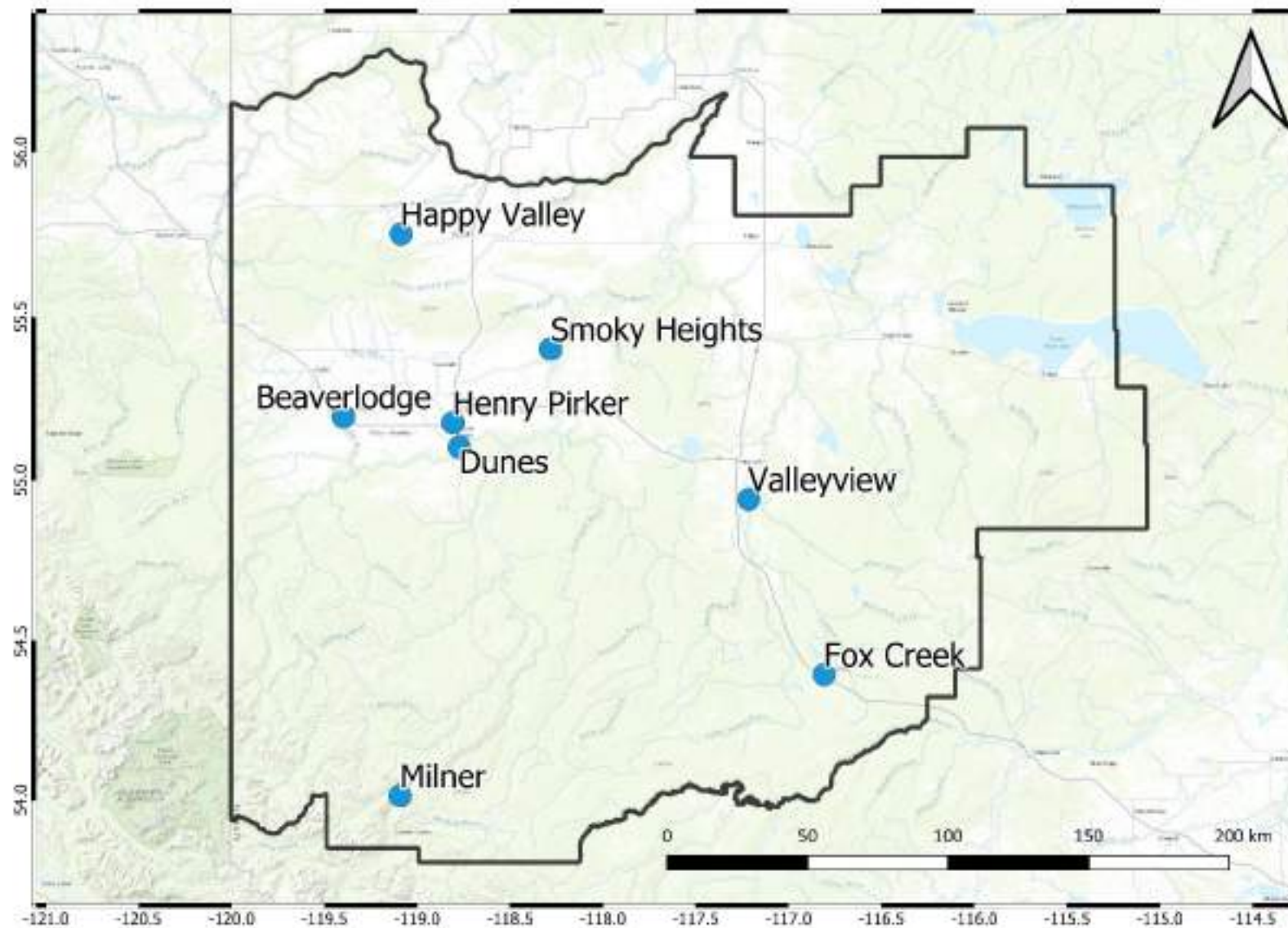




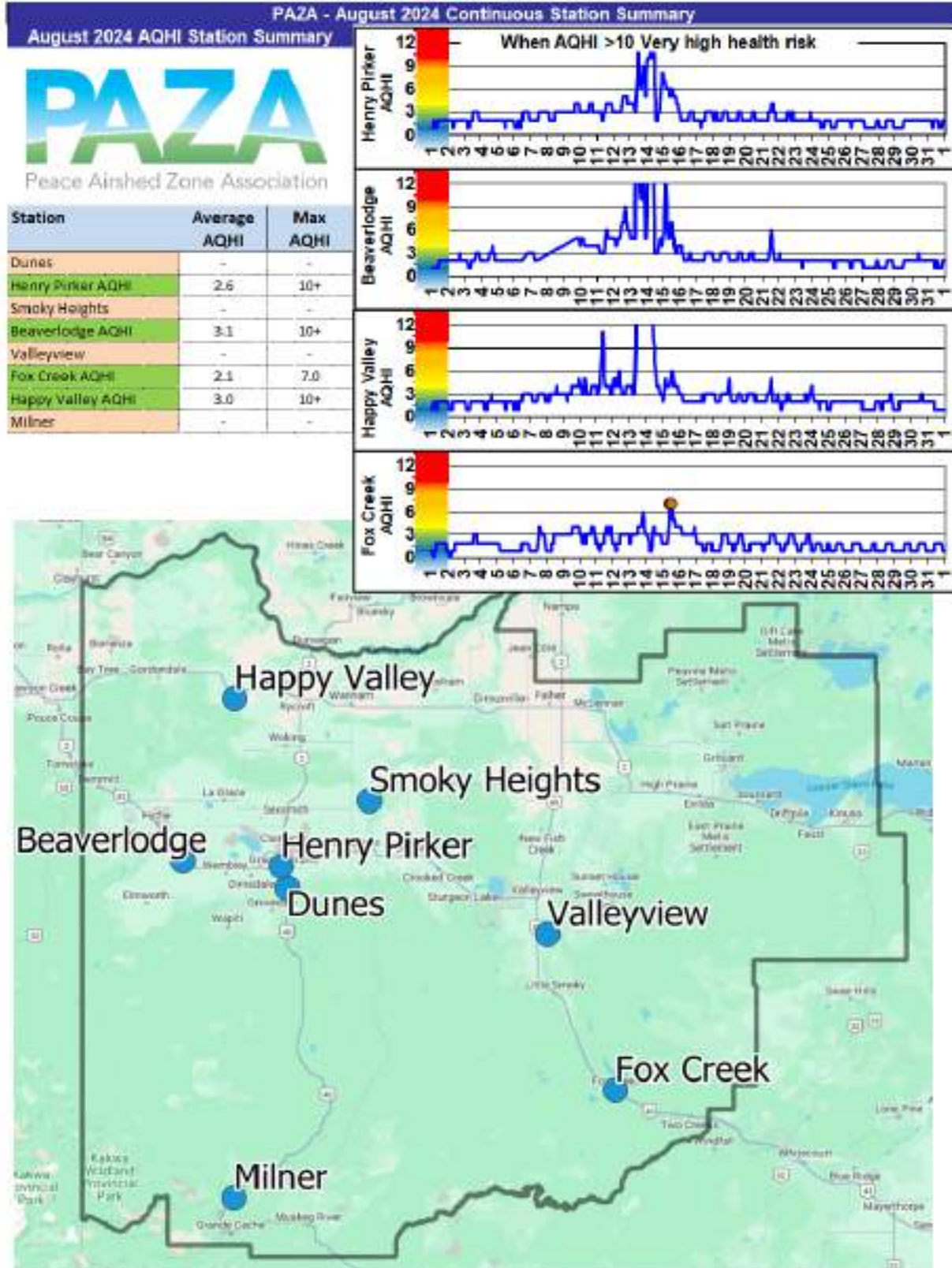
Milner August 2024 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 8.1 %

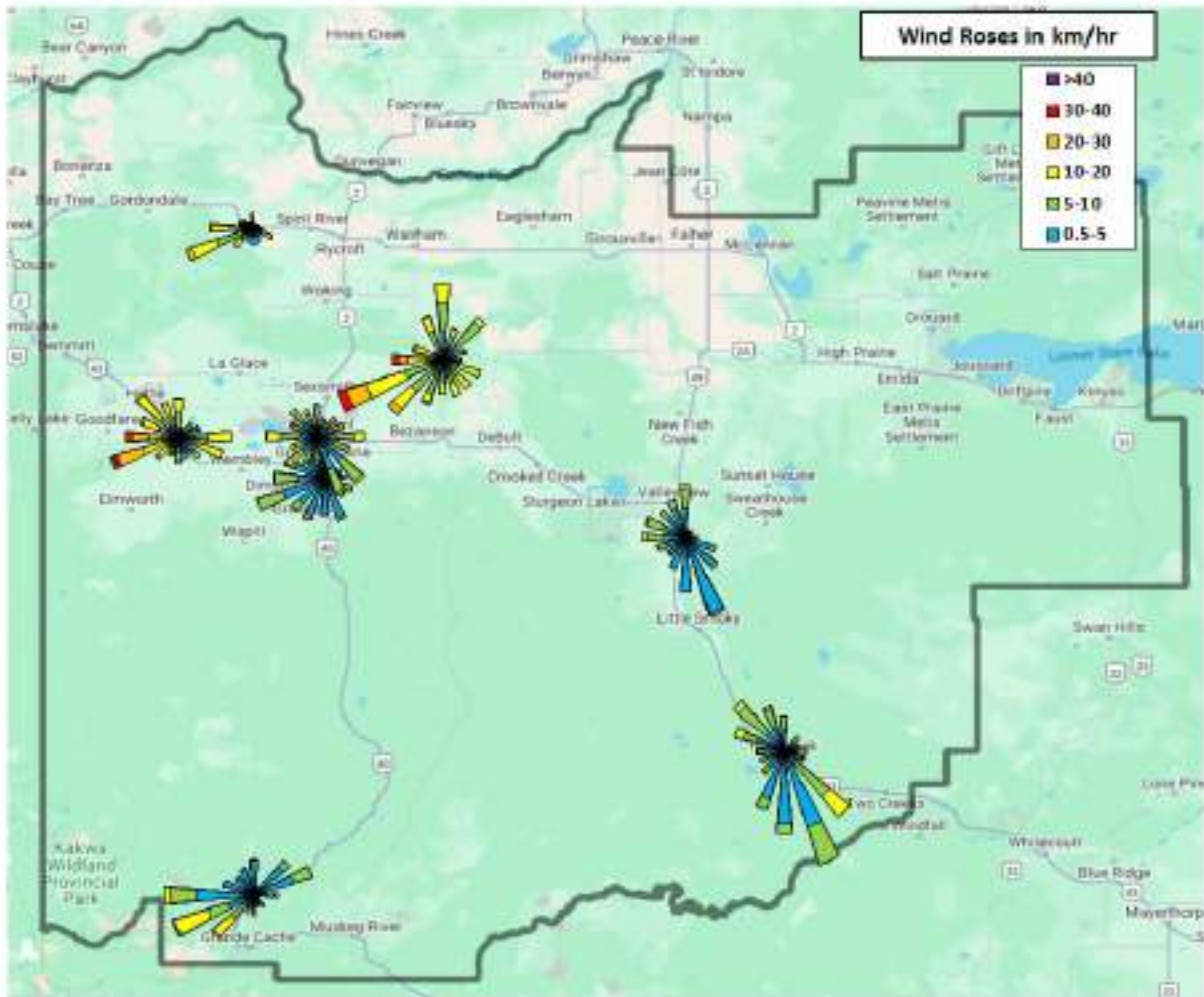
10 Concentration Summaries and Roses for PAZA



10.1 Air Quality Health Index (AQHI) Plots

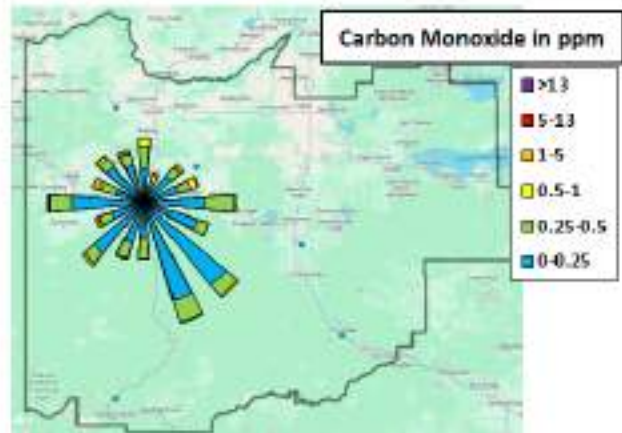


10.2 Wind Roses

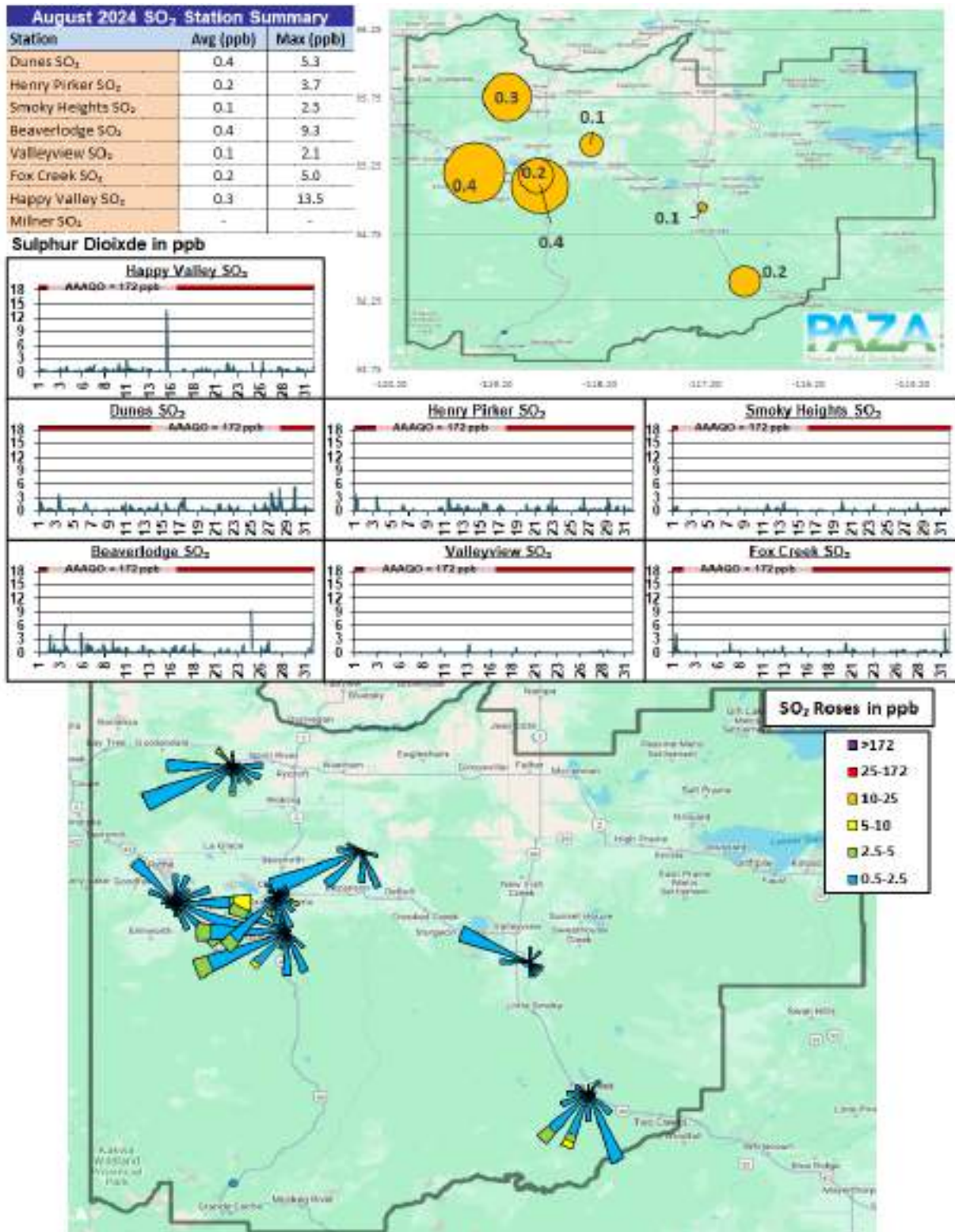


10.3 Carbon Monoxide (CO) Plots

| August 2024 CO Station Summary | | |
|--------------------------------|-----------|-----------|
| Station | Avg (ppm) | Max (ppm) |
| Henry Pirker CO | 0.26 | 2.06 |

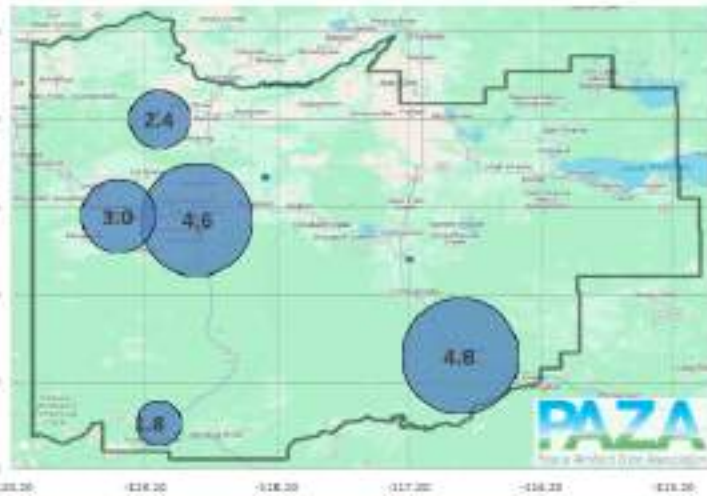


10.4 Sulphur Dioxide (SO₂) Plots

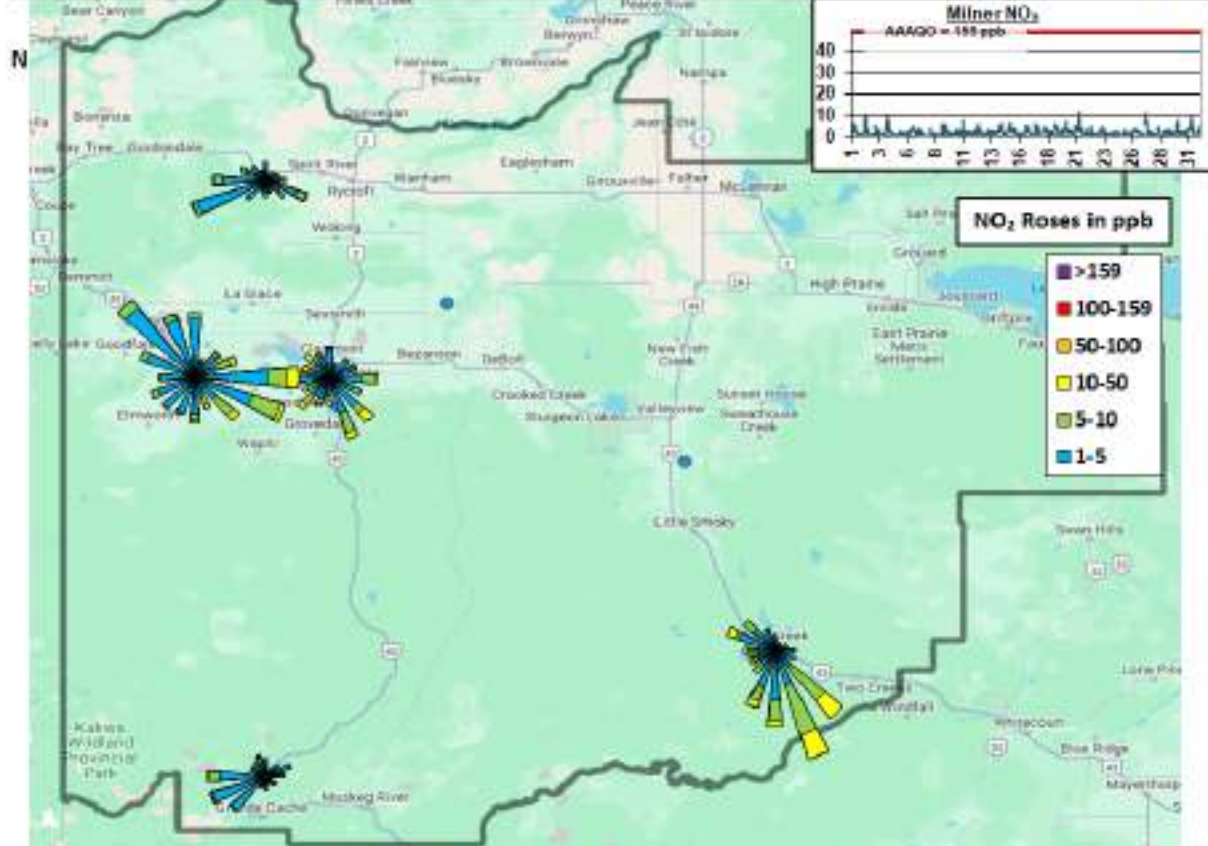
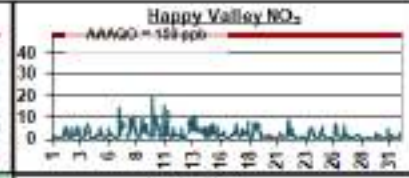
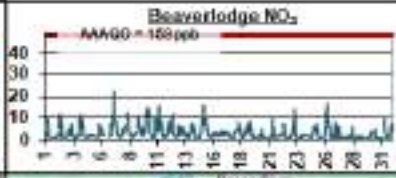
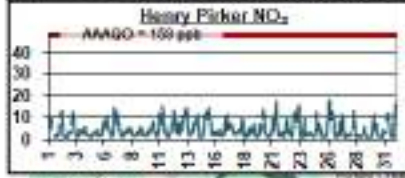
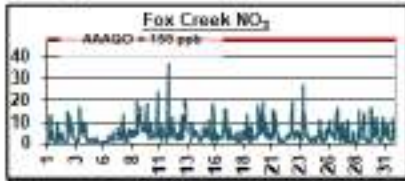


10.5 Nitrogen Dioxide (NO₂) Plots

| August 2024 NO ₂ Station Summary | | |
|---|-----------|-----------|
| Station | Avg (ppb) | Max (ppb) |
| Dunes NO ₂ | - | - |
| Henry Parker NO ₂ | 4.6 | 18.5 |
| Smoky Heights NO ₂ | - | - |
| Beaverlodge NO ₂ | 3.0 | 22.5 |
| Valleyview NO ₂ | - | - |
| Fox Creek NO ₂ | 4.8 | 36.6 |
| Happy Valley NO ₂ | 2.4 | 19.4 |
| Milner NO ₂ | 1.8 | 11.3 |

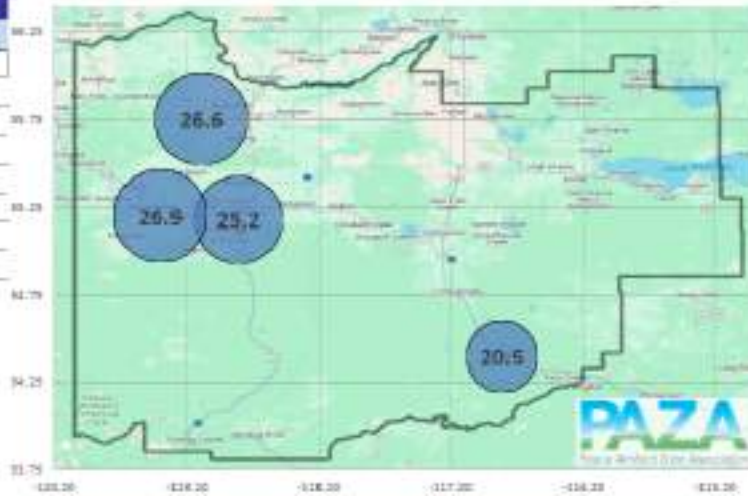


Nitrogen Dioxide in ppb

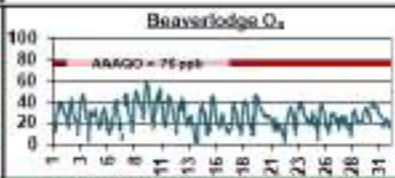
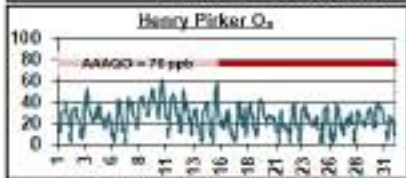
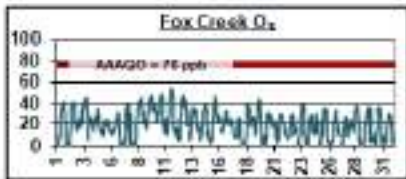


10.6 Ozone (O₃) Plots

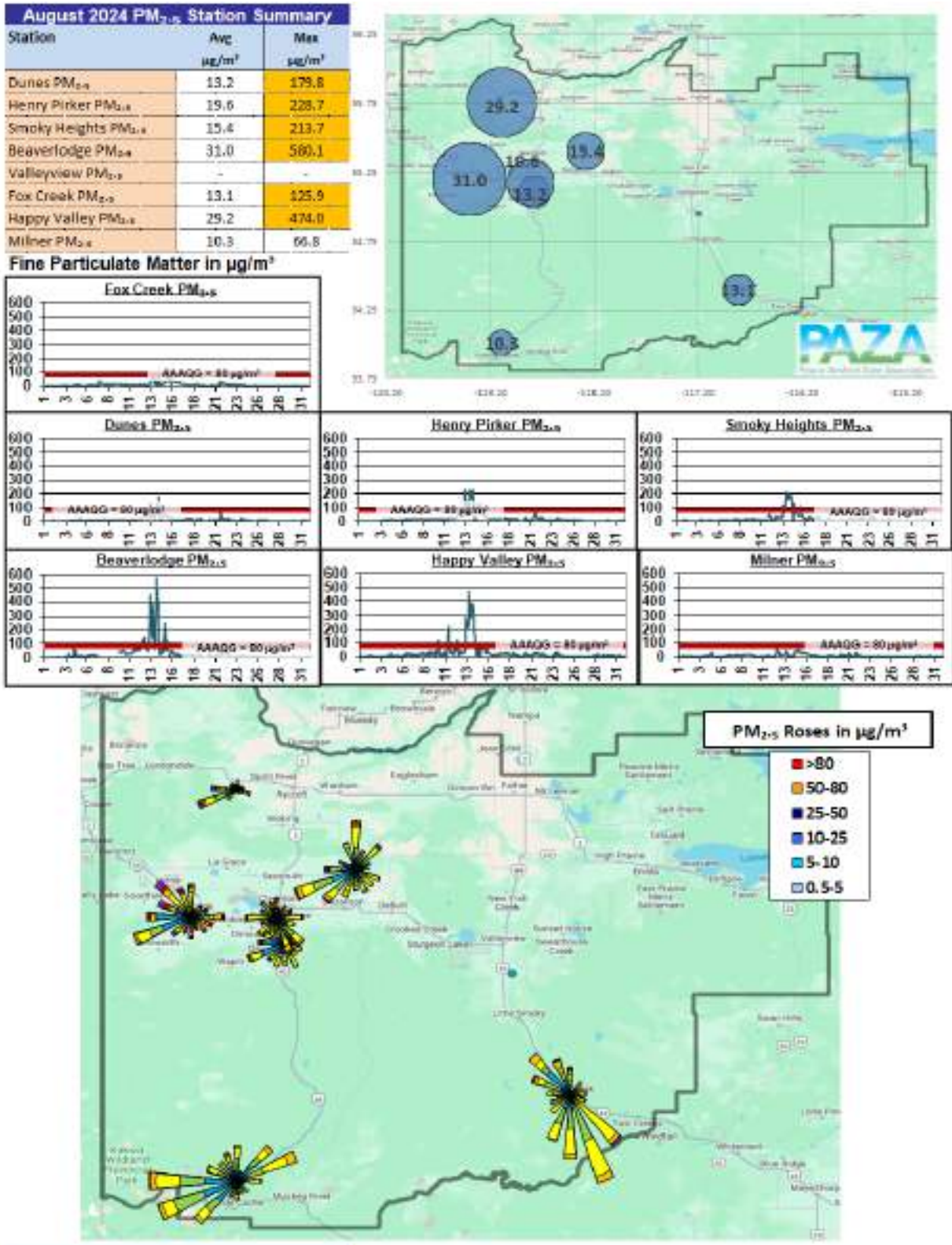
| August 2024 O ₃ Station Summary | | |
|--|-----------|-----------|
| Station | Avg (ppb) | Max (ppb) |
| Dunes O ₃ | - | - |
| Henry Plinker O ₃ | 25.2 | 62.0 |
| Smoky Heights O ₃ | - | - |
| Beaverlodge O ₃ | 26.9 | 57.4 |
| Valleyview O ₃ | - | - |
| Fox Creek O ₃ | 20.5 | 53.7 |
| Happy Valley O ₃ | 26.6 | 57.5 |
| Milner O ₃ | - | - |



Ozone in ppb

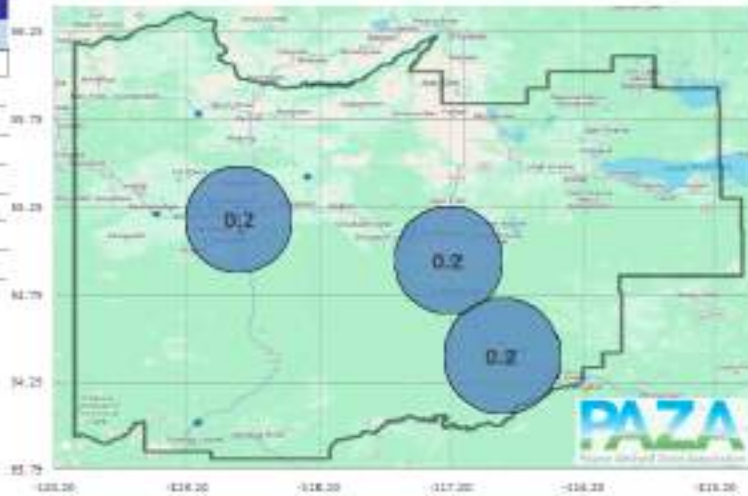


10.7 Fine Particulate Matter (PM_{2.5}) Plots

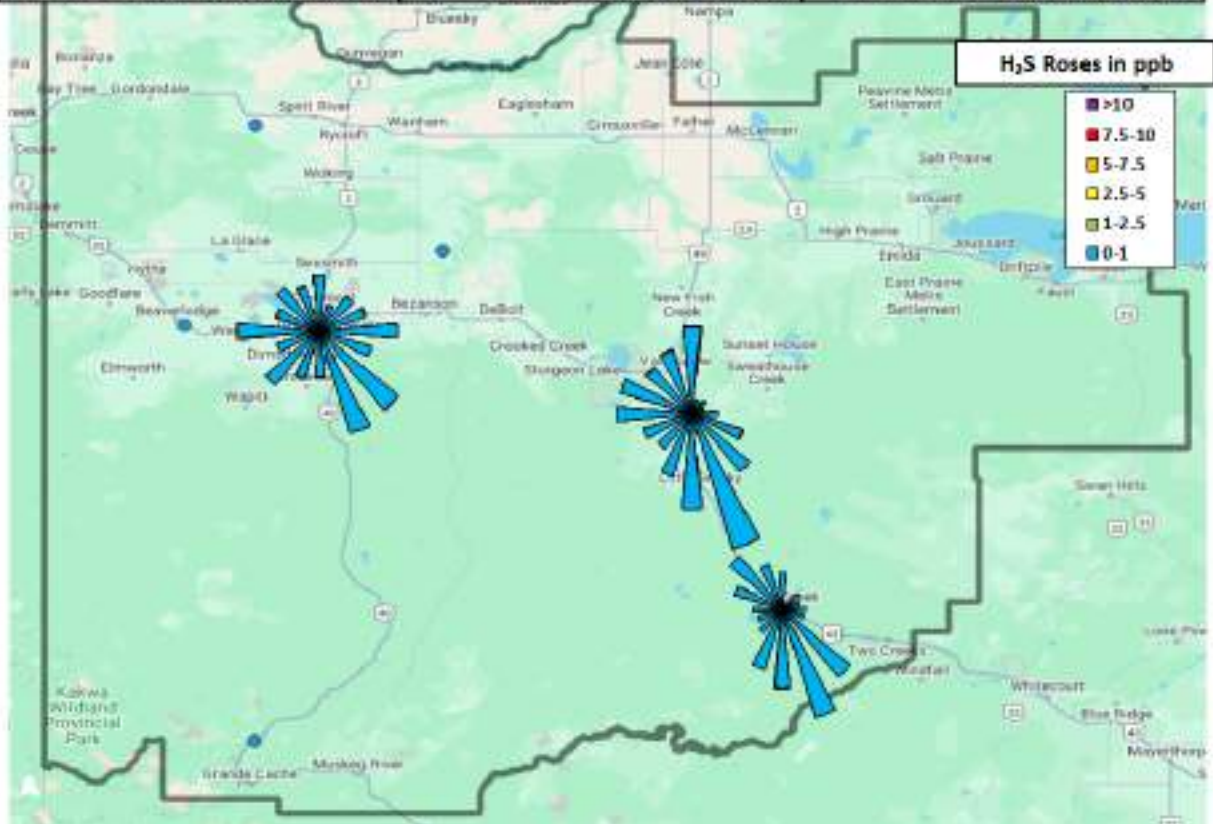
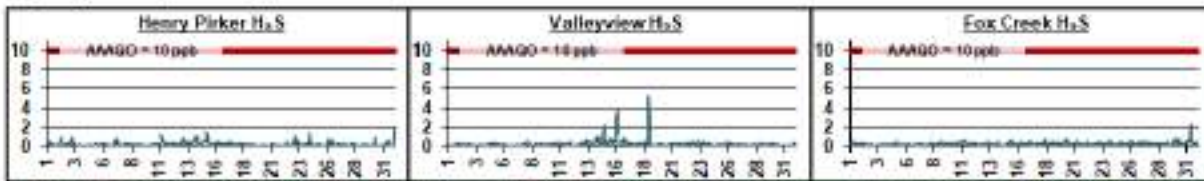


10.8 Hydrogen Sulphide (H₂S) Plots

| August 2024 H ₂ S Station Summary | | |
|--|-----------|-----------|
| Station | Avg (ppb) | Max (ppb) |
| Dunes H ₂ S | - | - |
| Henry Pirker H ₂ S | 0.2 | 2.1 |
| Smoky Heights H ₂ S | - | - |
| Beaverlodge H ₂ S | - | - |
| Valleyview H ₂ S | 0.2 | 5.1 |
| Fox Creek H ₂ S | 0.2 | 2.3 |
| Happy Valley H ₂ S | - | - |
| Milner H ₂ S | - | - |

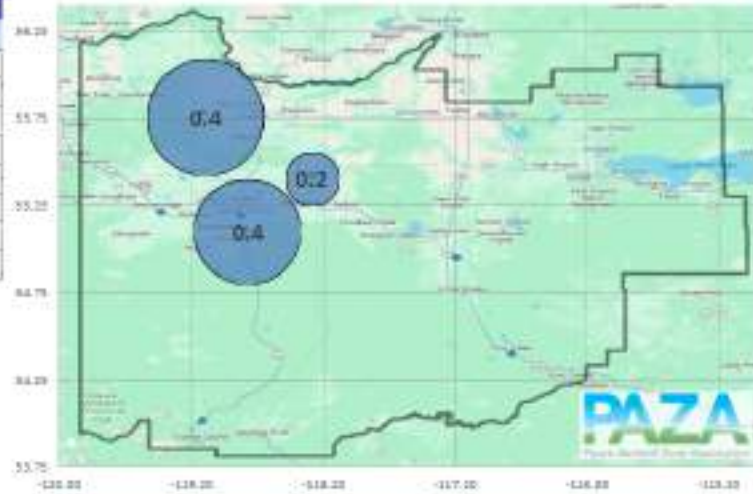


Hydrogen Sulphide in ppb

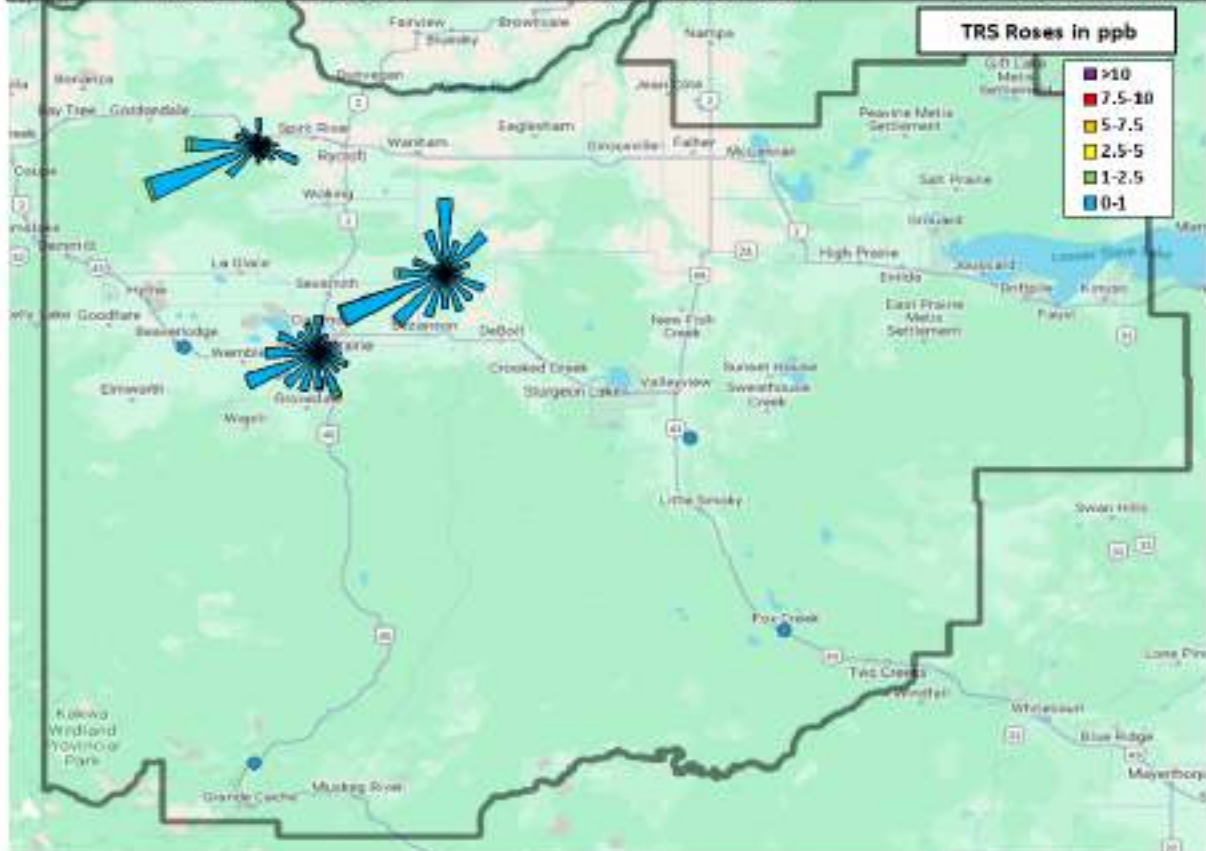
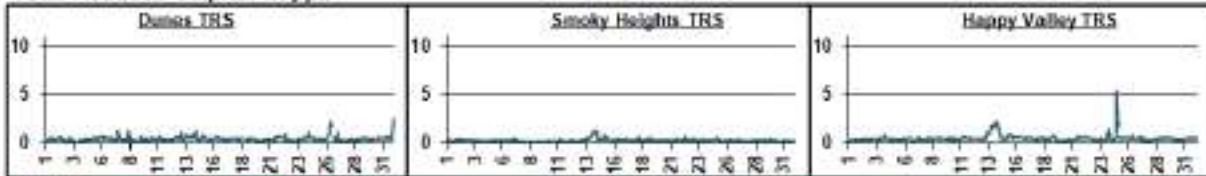


10.9 Total Reduced Sulphur (TRS) Plots

| August 2024 TRS Station Summary | | |
|---------------------------------|-----------|-----------|
| Station | Avg (ppb) | Max (ppb) |
| Dunes TRS | 0.4 | 4.4 |
| Henry Pirker TRS | - | - |
| Smoky Heights TRS | 0.2 | 1.3 |
| Beaverlodge TRS | - | - |
| Valleyview TRS | - | - |
| Fox Creek TRS | - | - |
| Happy Valley TRS | 0.4 | 5.4 |
| Milner TRS | - | - |



Total Reduced Sulphur in ppb

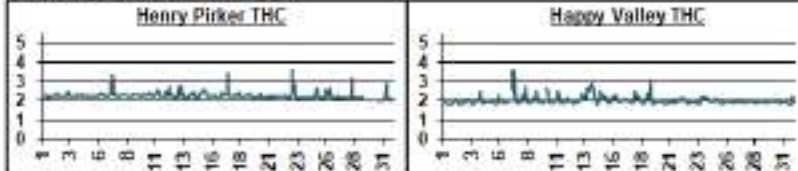


10.10 Total Hydrocarbon (THC) Plots

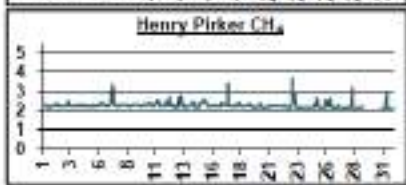
August 2024 THC Station Summary

| Station | Total Hydrocarbons | | Methane | | Non-Methane HCs | |
|-------------------|--------------------|-----------|-----------|-----------|-----------------|-----------|
| | Avg (ppm) | Max (ppm) | Avg (ppm) | Max (ppm) | Avg (ppm) | Max (ppm) |
| Dunes THC | - | - | - | - | - | - |
| Henry Pirkler THC | 2.3 | 3.7 | 2.3 | 3.7 | 0.00 | 0.01 |
| Smoky Heights THC | - | - | - | - | - | - |
| Beaverlodge THC | - | - | - | - | - | - |
| Valleyview THC | - | - | - | - | - | - |
| Fox Creek THC | - | - | - | - | - | - |
| Happy Valley THC | 2.0 | 3.7 | - | - | - | - |

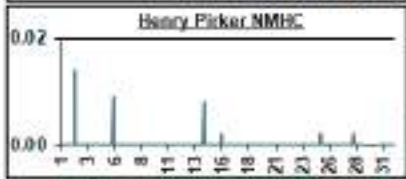
Total Hydrocarbons in ppm



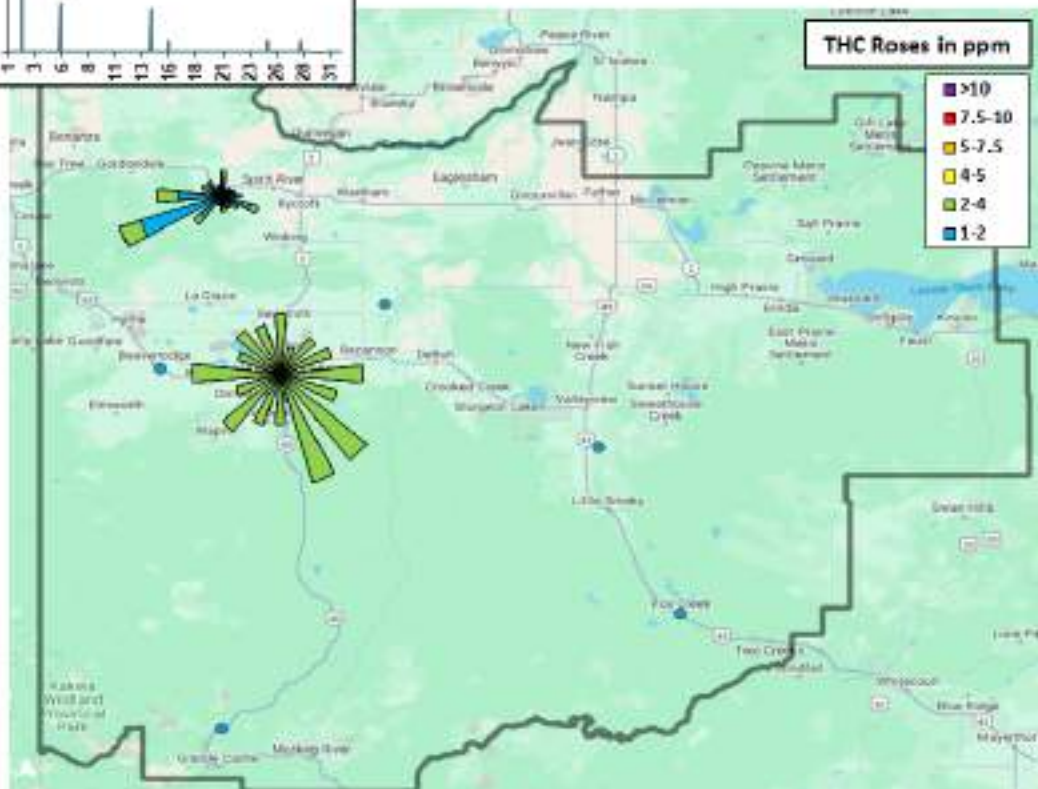
Total Hydrocarbons (THC)



Methane (CH₄)



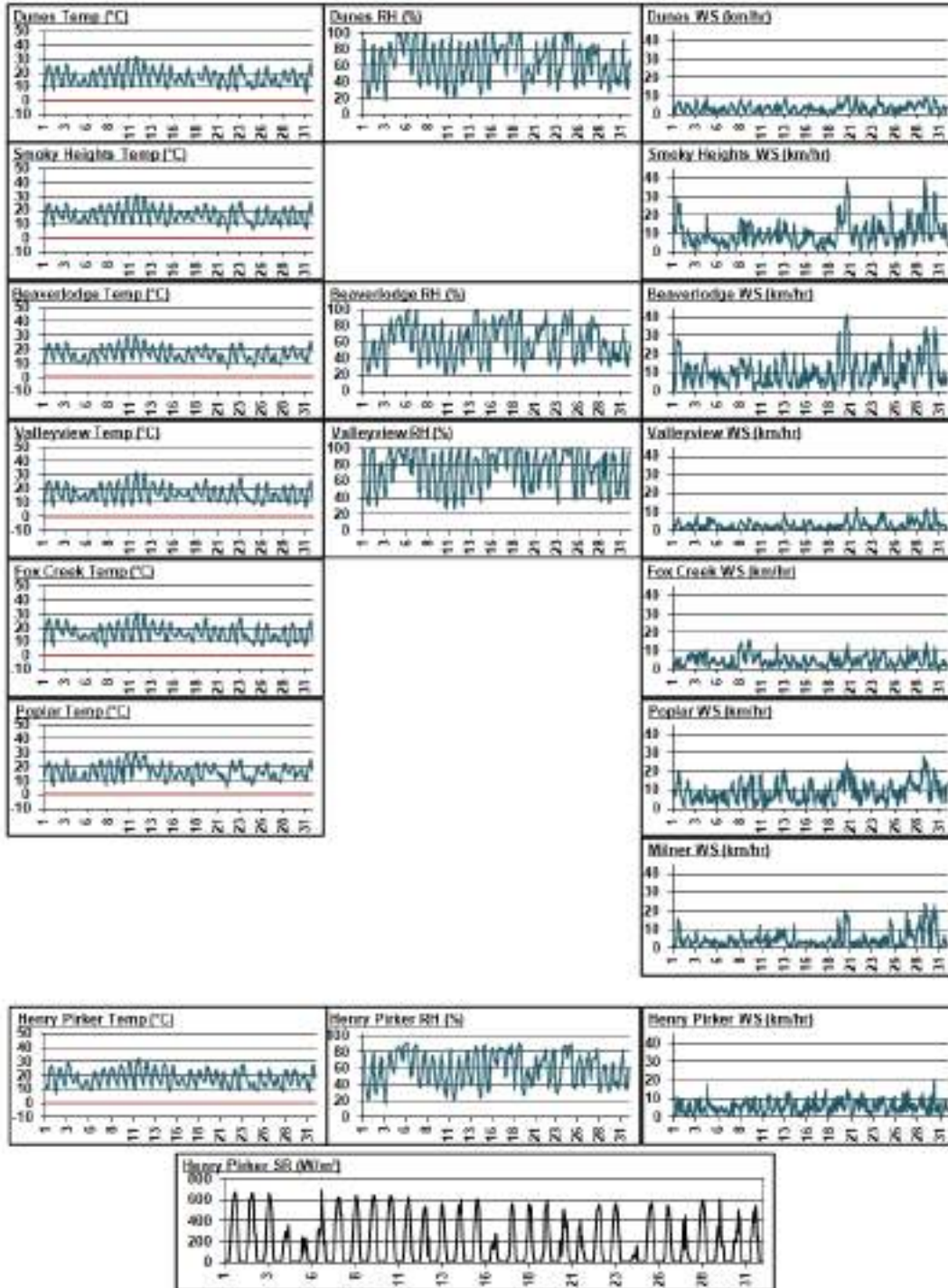
Non-Methane Hydrocarbons (NMHC)



10.11 Meteorology Summary

| August 2024 Meteorological Summary | | | | | | |
|------------------------------------|-----------|--------|------------------------|------------|----------|-----|
| Station | Temp (°C) | RH (%) | SR (W/m ²) | WS (km/hr) | WD (deg) | WD |
| Dunes | 16.9 | 64.4 | - | 3.6 | 243 | WSW |
| Henry Parker | 18.1 | 58.9 | 166.5 | 5.8 | 162 | SSE |
| Smoky Heights | 16.7 | - | - | 10.2 | 287 | WSW |
| Beaverfodge | 17.1 | 60.3 | - | 10.7 | 272 | W |
| Valleyview | 16.7 | 74.7 | - | 2.9 | 279 | W |
| Fox Creek | 16.4 | - | - | 4.6 | 176 | WSW |
| Happy Valley | 16.3 | - | - | 9.0 | 240 | WSW |
| Milner | - | - | - | 4.0 | 248 | WSW |

Temp (°C) Outside Temperature
 RH (%) Relative Humidity
 SR (W/m²) Solar Radiation
 WS (km/hr) Wind Speed
 WD (deg) Wind Direction
 WD Wind Direction



11 Passive Monitoring Data

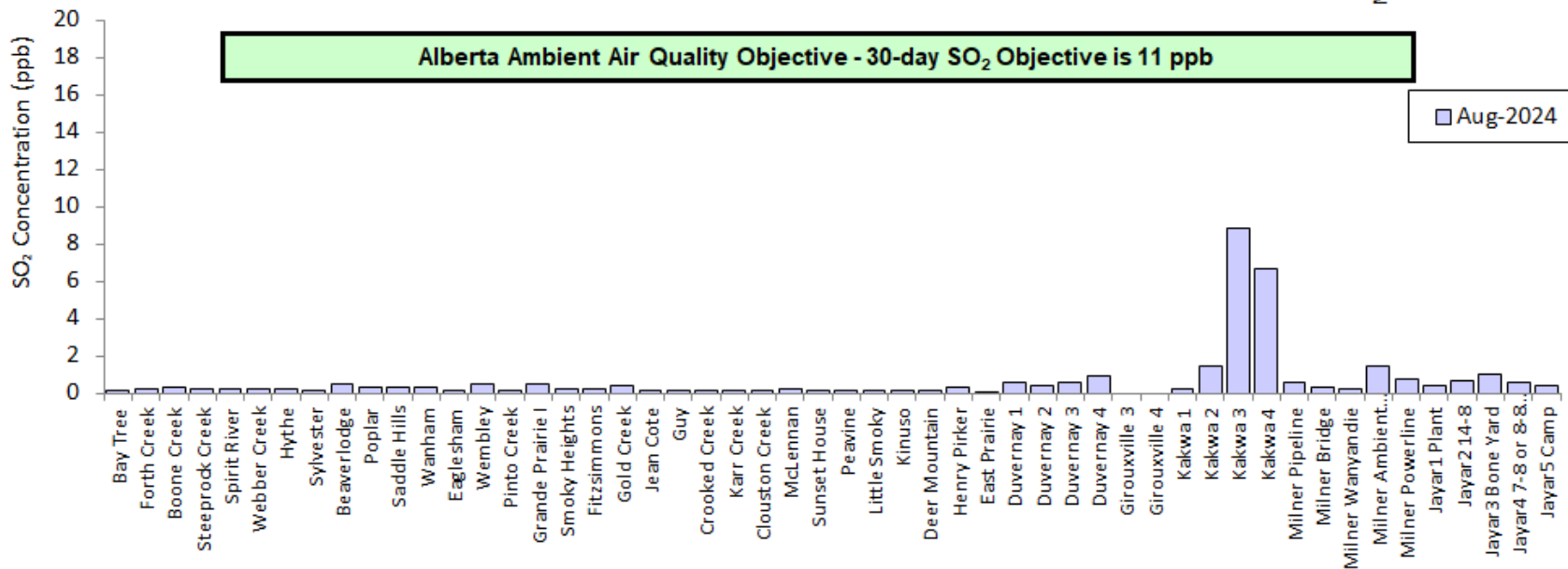
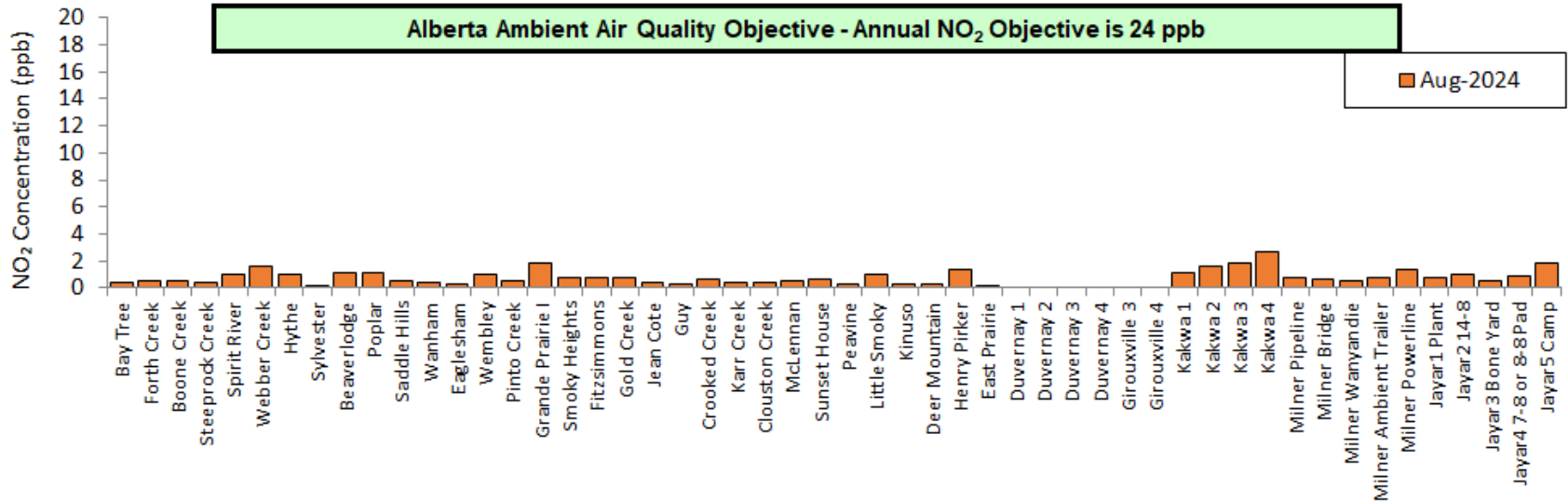
Peace Airshed Zone Association - PAZA Passive Stations for August 2024

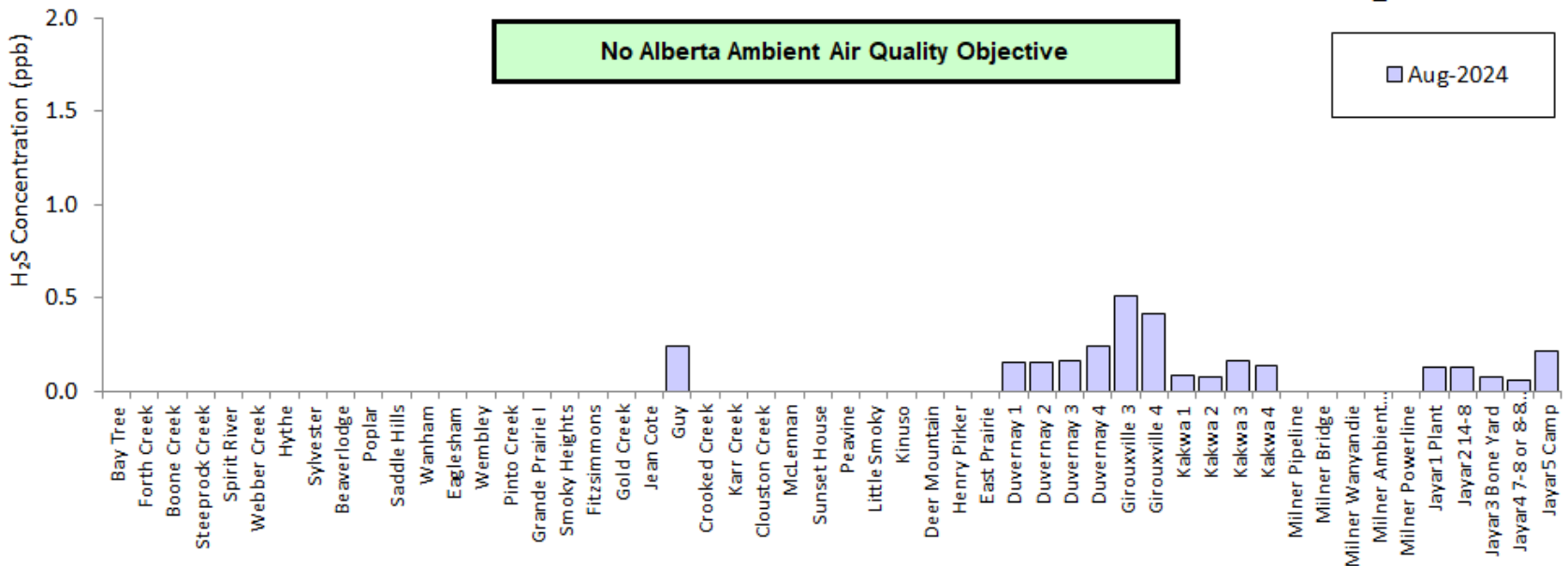
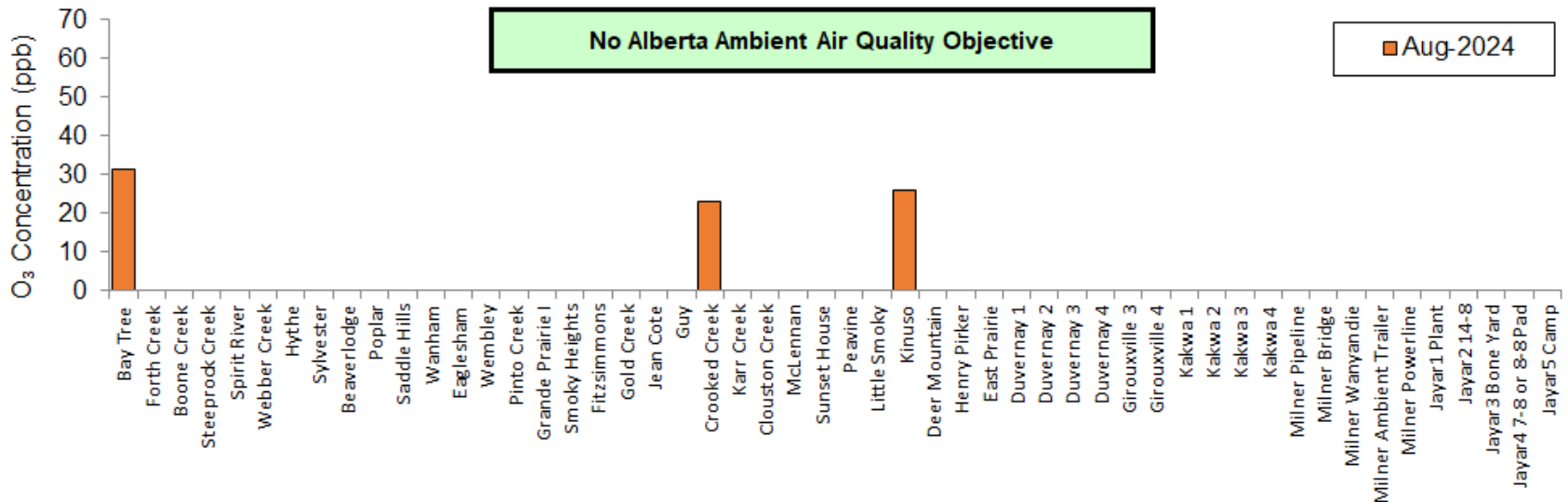
| Station Number | Station Name | SO2 ppb | O3 ppb | NO2 ppb | H2S ppb | LSD |
|-------------------|------------------|------------|-----------|------------|------------|------------------|
| Duplicates | | | | | | |
| 2a | Bay Tree | | 31.2 | | | 13-16-078-13 W6M |
| 2b | Bay Tree | | 31.9 | | | |
| 5a | Boone Creek | 0.3 | | | | 01-23-076-11 W6M |
| 5b | Boone Creek | 0.3 | | | | |
| 11a | Webber Creek | | | 1.6 | | 09-36-074-09 W6M |
| 11b | Webber Creek | | | 1.6 | | |
| 17a | Poplar | | | 0.8 | | 13-06-073-08 W6M |
| 17b | Poplar | | | 1.3 | | |
| 21a | Eglesham | 0.1 | | | | 16-21-079-25 W6M |
| 21b | Eglesham | 0.1 | | | | |
| 25a | Pinto Creek | 0.1 | | | | 04-24-069-11 W6M |
| 25b | Pinto Creek | 0.2 | | | | |
| 44a | Peavine | | | 0.3 | | 03-05-079-15 W6M |
| 44b | Peavine | | | 0.2 | | |
| 47a | Kinuso | 0.1 | | | | 12-10-073-10 W6M |
| 47b | Kinuso | 0.1 | | | | |
| 48a | Deer Mountain | | | 0.3 | | 15-22-068-09 W6M |
| 48b | Deer Mountain | | | 0.2 | | |
| D4a | Duvernay 4 | 0.8 | | | 0.19 | 04-33-062-20 W6M |
| D4b | Duvernay 4 | 1.0 | | | 0.29 | |
| | | | | | | |
| K4a | Kakwa 4 | | | 2.7 | | 06-18-063-04 W6M |
| K4b | Kakwa 4 | | | 2.6 | | |
| K2a | Kakwa 2 | 1.4 | | | | 08-13-063-05 W6M |
| K2b | Kakwa 2 | 1.4 | | | | |
| K1a | Kakwa 1 | | | | 0.09 | 01-13-063-05 W6M |
| K1b | Kakwa 1 | | | | 0.08 | |
| M7a | Milner Waryandie | | | 0.5 | | 11-13-058-08 W6M |
| M7b | Milner Waryandie | | | 0.6 | | |
| M10a | Milner Powerline | 0.7 | | | | 06-14-058-08 W6M |
| M10b | Milner Powerline | 0.8 | | | | |
| J1a | Jayar1 Plant | | | 0.7 | | 06-08-062-03 W6M |
| J1b | Jayar1 Plant | | | 0.8 | | |
| J2a | Jayar2 14-8 | 0.7 | | | | 07-08-062-03 W6M |
| J2b | Jayar2 14-8 | 0.6 | | | | |
| J5a | Jayar5 Camp | | | | 0.21 | 11-08-062-03 W6M |
| J5b | Jayar5 Camp | | | | 0.22 | |

| Station Number | Station Name | SO2 ppb | O3 ppb | NO2 ppb | H2S ppb | LSD |
|----------------|------------------------|------------|-----------|------------|------------|------------------|
| 2 | Bay Tree | 0.2 | 31.5 | 0.4 | - | 13-16-078-13 WSM |
| 3 | Forth Creek | 0.2 | - | 0.5 | - | 04-13-082-07 WSM |
| 5 | Boone Creek | 0.3 | - | 0.5 | - | 01-23-076-11 WSM |
| 7 | Steeprock Creek | 0.2 | - | 0.4 | - | 09-35-072-13 WSM |
| 9 | Spirit River | 0.3 | - | 1.0 | - | 08-12-079-07 WSM |
| 11 | Webber Creek | 0.2 | - | 1.6 | - | 09-36-074-09 WSM |
| 12 | Hythe | 0.2 | - | 1.0 | - | 14-36-072-11 WSM |
| 14 | Sylvester | 0.1 | - | 0.2 | - | 08-06-069-12 WSM |
| 16 | Beaverlodge | 0.5 | - | 1.1 | - | 15-36-071-10 WSM |
| 17 | Poplar | 0.3 | - | 1.1 | - | 13-05-073-08 WSM |
| 18 | Saddle Hills | 0.3 | - | 0.5 | - | 04-25-074-07 WSM |
| 19 | Wanham | 0.3 | - | 0.4 | - | 16-22-077-03 WSM |
| 21 | Eaglesham | 0.1 | - | 0.3 | - | 16-21-079-25 WSM |
| 24 | Wembley | 0.5 | - | 1.0 | - | 12-31-070-08 WSM |
| 25 | Pinto Creek | 0.1 | - | 0.5 | - | 04-24-069-11 WSM |
| 27 | Grande Prairie I | 0.5 | - | 1.8 | - | 08-15-071-06 WSM |
| 29 | Smoky Heights | 0.2 | - | 0.7 | - | 04-06-075-02 WSM |
| 30 | Fitzsimmons | 0.2 | - | 0.7 | - | 15-36-072-03 WSM |
| 32 | Gold Creek | 0.4 | - | 0.8 | - | 06-33-067-05 WSM |
| 35 | Jean Cote | 0.2 | - | 0.4 | - | 12-35-079-21 WSM |
| 36 | Guy | 0.1 | - | 0.3 | 0.2 | 03-04-076-22 WSM |
| 37 | Crooked Creek | 0.1 | 23.1 | 0.6 | - | 16-01-071-26 WSM |
| 38 | Karr Creek | 0.1 | - | 0.3 | - | 10-16-065-02 WSM |
| 39 | Clouston Creek | 0.2 | - | 0.4 | - | 12-01-073-22 WSM |
| 40 | McLennan | 0.2 | - | 0.5 | - | 03-29-077-19 WSM |
| 42 | Sunset House | 0.1 | - | 0.7 | - | 05-32-070-19 WSM |
| 44 | Peavine | 0.1 | - | 0.3 | - | 03-05-079-15 WSM |
| 46 | Little Smoky | 0.1 | - | 1.0 | - | 12-01-065-21 WSM |
| 47 | Kiruso | 0.1 | 26.2 | 0.3 | - | 12-10-073-10 WSM |
| 48 | Deer Mountain | 0.1 | - | 0.2 | - | 15-22-068-09 WSM |
| 49 | Henry Parker | 0.3 | - | 1.4 | - | 17-26-071-06 WSM |
| 50 | East Prairie | 0.1 | - | 0.2 | - | 11-13-079-08 WSM |
| D1 | Duvernay 1 | 0.6 | - | - | 0.16 | 04-33-062-20 WSM |
| D2 | Duvernay 2 | 0.4 | - | - | 0.16 | 04-33-062-20 WSM |
| D3 | Duvernay 3 | 0.6 | - | - | 0.16 | 04-33-062-20 WSM |
| D4 | Duvernay 4 | 0.9 | - | - | 0.24 | 04-33-062-20 WSM |
| G3 | Grouville 3 | - | - | - | 0.52 | 14-02-077-23 WSM |
| G4 | Grouville 4 | - | - | - | 0.41 | 04-08-077-22 WSM |
| K1 | Kakwa 1 | 0.2 | - | 1.1 | 0.09 | 01-13-063-05 WSM |
| K2 | Kakwa 2 | 1.4 | - | 1.6 | 0.08 | 08-13-063-05 WSM |
| K3 | Kakwa 3 | 8.8 | - | 1.8 | 0.16 | 12-18-063-04 WSM |
| K4 | Kakwa 4 | 6.7 | - | 2.7 | 0.14 | 06-18-063-04 WSM |
| M1 | Milner Pipeline | 0.6 | - | 0.8 | - | 12-14-058-08 WSM |
| M2 | Milner Bridge | 0.3 | - | 0.6 | - | 08-06-057-08 WSM |
| M3 | Milner Waryandie | 0.2 | - | 0.6 | - | 11-13-058-08 WSM |
| M4 | Milner Ambient Trailer | 1.4 | - | 0.8 | - | 09-15-058-08 WSM |
| M5 | Milner Powerline | 0.8 | - | 1.3 | - | 06-14-058-08 WSM |
| J1 | Jayar1 Plant | 0.4 | - | 0.8 | 0.13 | 06-08-062-03 WSM |
| J2 | Jayar2 14-8 | 0.7 | - | 1.0 | 0.13 | 07-08-062-03 WSM |
| J3 | Jayar3 Bone Yard | 1.0 | - | 0.5 | 0.08 | 14-08-062-03 WSM |
| J4 | Jayar4 7-8 or 8-8 Pad | 0.6 | - | 0.9 | 0.06 | 10-08-062-03 WSM |
| J5 | Jayar5 Camp | 0.4 | - | 1.8 | 0.22 | 11-08-062-03 WSM |

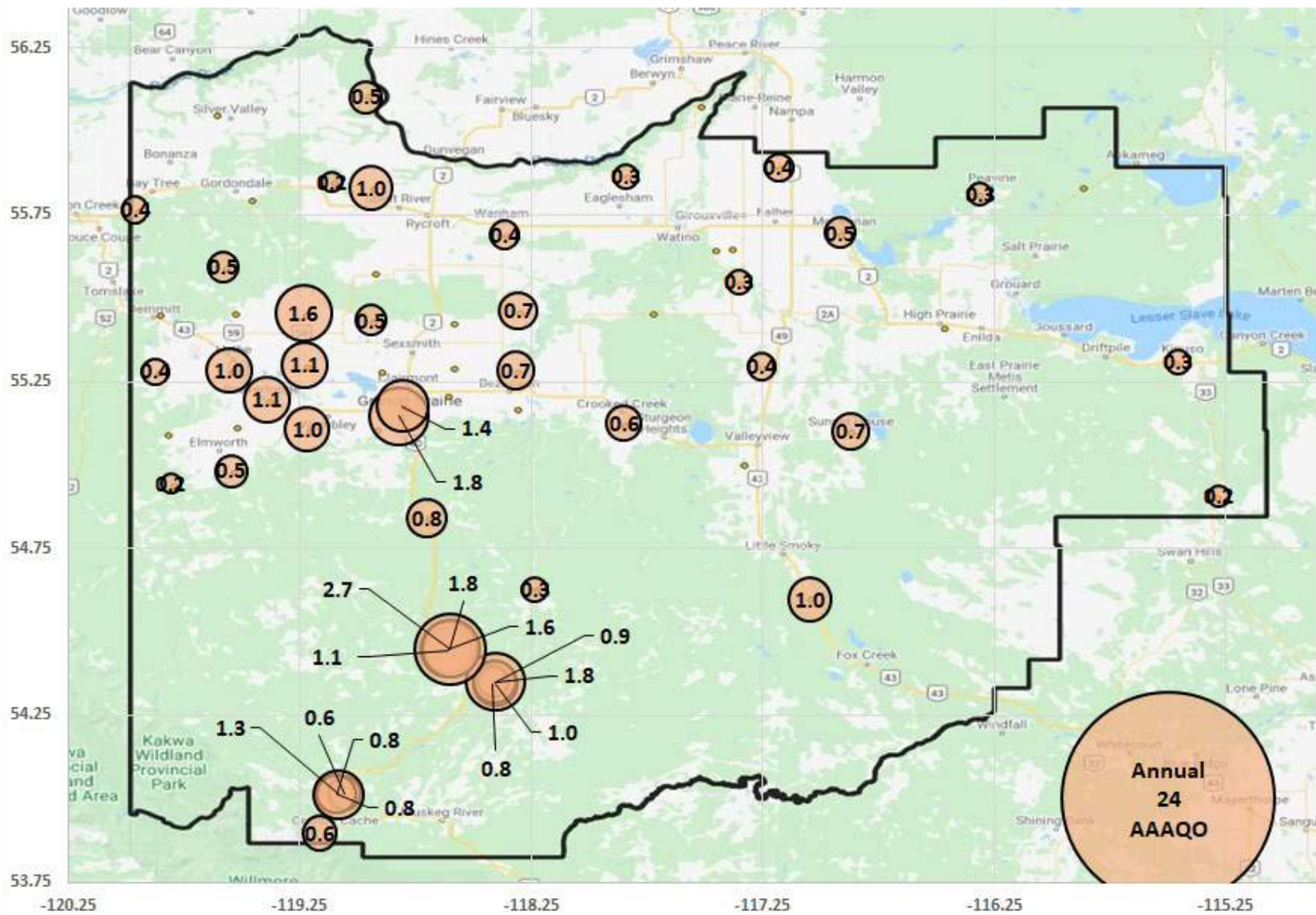
Passive Summary for August 2024

| Stats | Sulphur Dioxide SO ₂ ppb | Ozone O ₃ ppb | Nitrogen Dioxide NO ₂ ppb | Hydrogen Sulphide H ₂ S ppb |
|--|---|--------------------------------|--|--|
| Passive Summary for May 2024 (PAZA) | | | | |
| Mean | 0.7 | 27.0 | 0.8 | 0.2 |
| Standard Deviation | 1.5 | 4.3 | 0.5 | 0.1 |
| Minimum | 0.1 | 23.1 | 0.2 | 0.1 |
| Maximum | East Prairie (#50) | Crooked Creek (#37) | Sylvester (#14) | Jayar4 7-8 or 8-8 Pad (#J4) |
| | 8.8 Kakwa 3 (#K3) | 31.5 Bay Tree (#2) | 2.7 Kakwa 4 (#K4) | 0.5 Girouxville 3 (#G3) |
| Continuous and Passive Monitoring Comparision | | | | |
| PAZA Beaverlodge Station | 0.4 | 26.9 | 3.0 | - |
| Beaverlodge Passive (#16) | 0.5 | - | 1.1 | - |
| PAZA Henry Pirker Station | 0.2 | 25.2 | 4.6 | 0.2 |
| Henry Pirker passive (#49) | 0.3 | - | 1.4 | - |
| Milner Station | - | - | 1.8 | - |
| Milner passive | 1.4 | - | 0.8 | - |

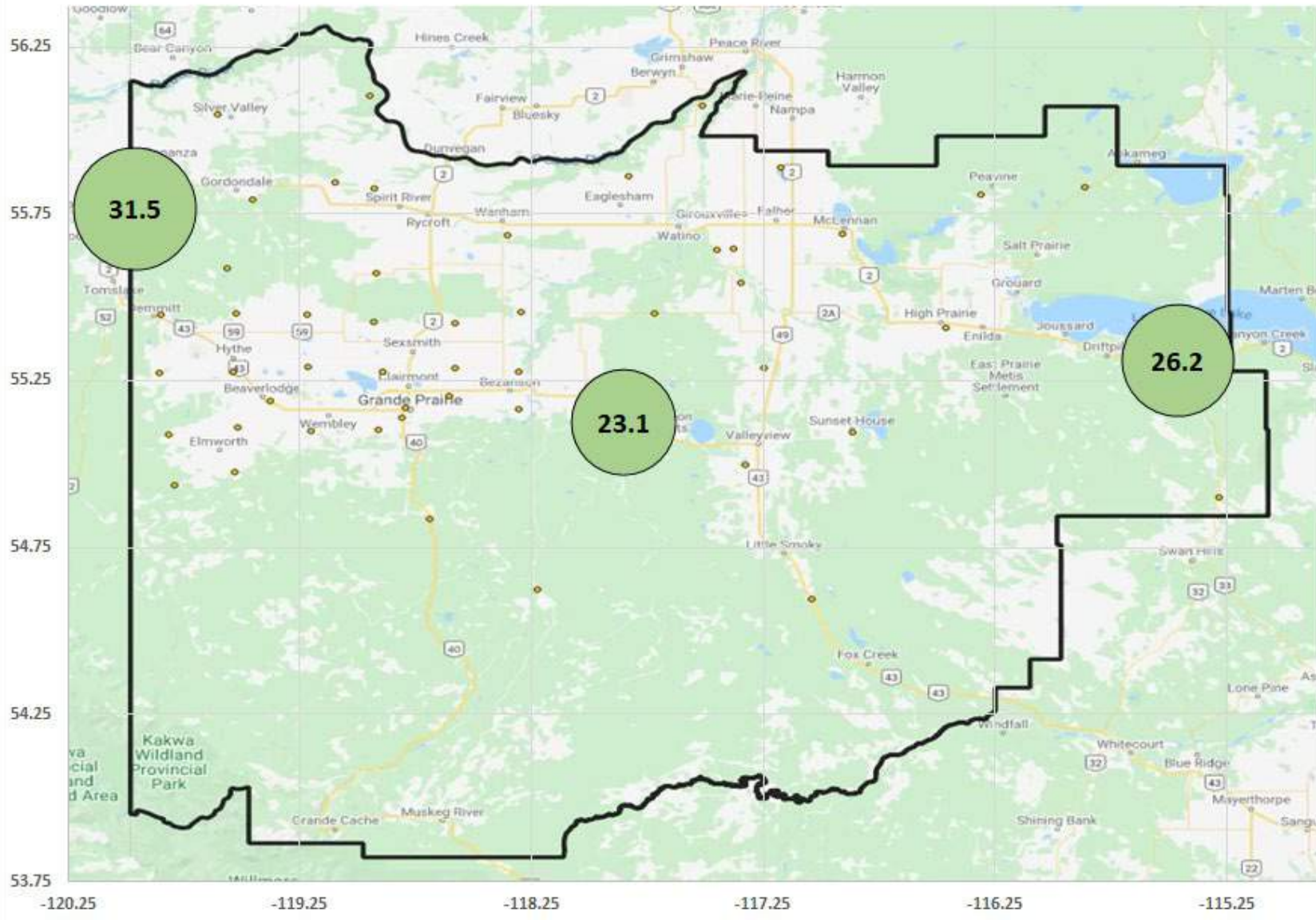




NO₂ Monthly Average (units in ppb)



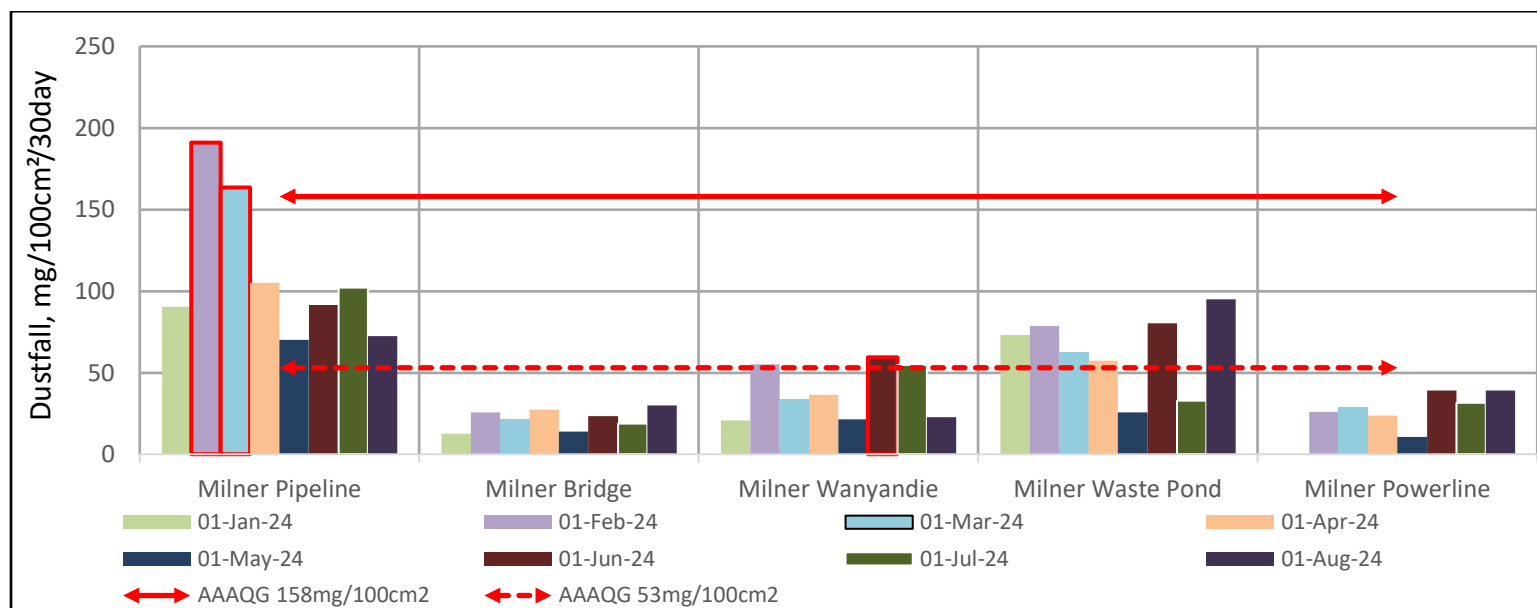
O₃ Monthly Average (units in ppb)



12 Dustfall Monitoring Data

Milner Dustfall Samples August 2024

| Exposure Month | Year | Sample | Total Dustfall (30 day) mg/100cm ² /30day | Fixed Dustfall (30 day) mg/100cm ² /30day | Exposure days | Field Notes |
|----------------|------|----------------------|---|---|---------------|---------------|
| August | 2024 | Milner Pipeline | 72.5 | 35.7 | 30 | |
| August | 2024 | Milner Bridge | 30.0 | 18.7 | 30 | |
| August | 2024 | Milner Wanyandie | 22.7 | 15.6 | 30 | |
| August | 2024 | Milner Waste Pond | 95.0 | 47.9 | 30 | |
| August | 2024 | Milner Powerline | 39.2 | 21.1 | 30 | |
| August | 2024 | Milner Powerline Dup | 43.0 | 23.5 | 30 | RPD, 9% / 11% |



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

August 2024