



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

April 2025

May 31, 2025

Alberta Environment and Protected Areas

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

Subject: **Peace Airshed Zone Association (PAZA)**
April 2025 Ambient Air Quality Monitoring Report

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of April 2025.

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 April 2025 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 was two, 30min readings above TRS AAAQG (5ppb)
- There was five, 1hr readings above the PM_{2.5} AAAQG (80µg/m³)
- There were two SO₂ passives above the 30day SO₂ AAAQO (11ppb)

Readings above the 30min TRS AAAQG (5ppb) recorded as follows:

Site	reference	Pollutant	Date	From MST	To MST	Average Ppb	WS km/hr	WD degrees
Happy Valley	<i>e-reported</i>	TRS	02-Apr-25	19:30	20:00	8.0	2.0	207
Happy Valley	<i>e-reported</i>	TRS	17-Apr-25	23:30	00:00	5.7	1.7	225

Readings above the 1hr PM_{2.5} AAAQG (80µg/m³) recorded as follows:

Site	reference	Pollutant	Date	From MST	To MST	Average µg/m ³	WS km/hr	WD degrees
Happy Valley	439262	PM _{2.5}	04-Apr-25	05:00	06:00	85.0	11.1	265
Happy Valley	439262	PM _{2.5}	04-Apr-25	06:00	07:00	127.3	13.3	257
Happy Valley	439995	PM _{2.5}	24-Apr-25	03:00	04:00	111.6	7.1	252
Happy Valley	439995	PM _{2.5}	24-Apr-25	07:00	08:00	96.4	1.0	95
Happy Valley	440028	PM _{2.5}	25-Apr-25	05:00	06:00	108.4	5.7	246

Readings above the SO₂ monthly AAAQO (11ppb) recorded as:

Site	reference	Pollutant	Date	Average ppb
Kakwa 3	440945	SO ₂ Passive	April 2025	35.8
Kakwa 4	440946	SO ₂ Passive	April 2025	13.7

Operational times less than 90 percent

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

Air Incidents

None were reported.

Deviations from Authorized Monitoring Methods

None were reported.

Passive Monitoring

- 54 Stations throughout the PAZA zone
 - o Passive sample analyses were performed by Bureau Veritas Laboratories
 - o Field notes indicated that Duvernay 2 site had no access to the station. Plant is in shutdown and the area was closed off for safety reasons.

There were 19 duplicates sampled in the month of April:

- Eight SO₂ duplicates located at Spirit River, Wanham, Jean Cote, East Prairie, Duvernay 1, Kakwa 1, Milner Powerline, Jayar1 Plant
 - o RPD ranging from 0% to 40% (no fails)
 - o Kakwa 3 and Kakwa 4 were both above the AAAQO of 11ppb for the month
- One O₃ duplicate at Bay Tree

- o RPD of 5% (no fail)
- Seven NO₂ duplicates at Silver Valley, Eaglesham, Guy, Sunset House, Kakwa 4, Milner Pipeline, Jayar5 Camp
 - o RPD ranging from 0% to 179% (one fail at Sunset House (0.1 and 1.9 ppb results))
- Three H₂S duplicates at Duvernay 1, Kakwa 2, Jayar2 14-8
 - o RPD ranging from 0% to 26% (no fails, Kakwa 2 and Jayar2-14-8 sites were both <0.02ppb)

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall
- Total dustfall ranged from 3.4 to 110.0 mg/100cm²/30day
- RPD was 17 to 40% (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.

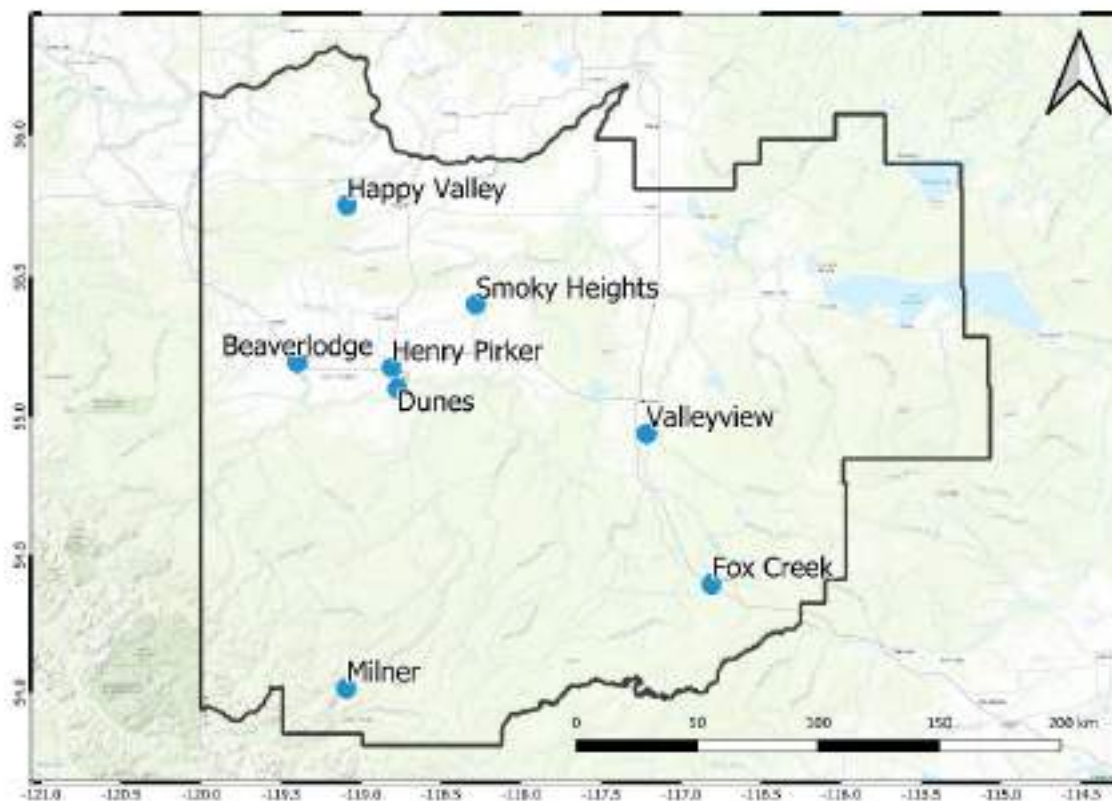


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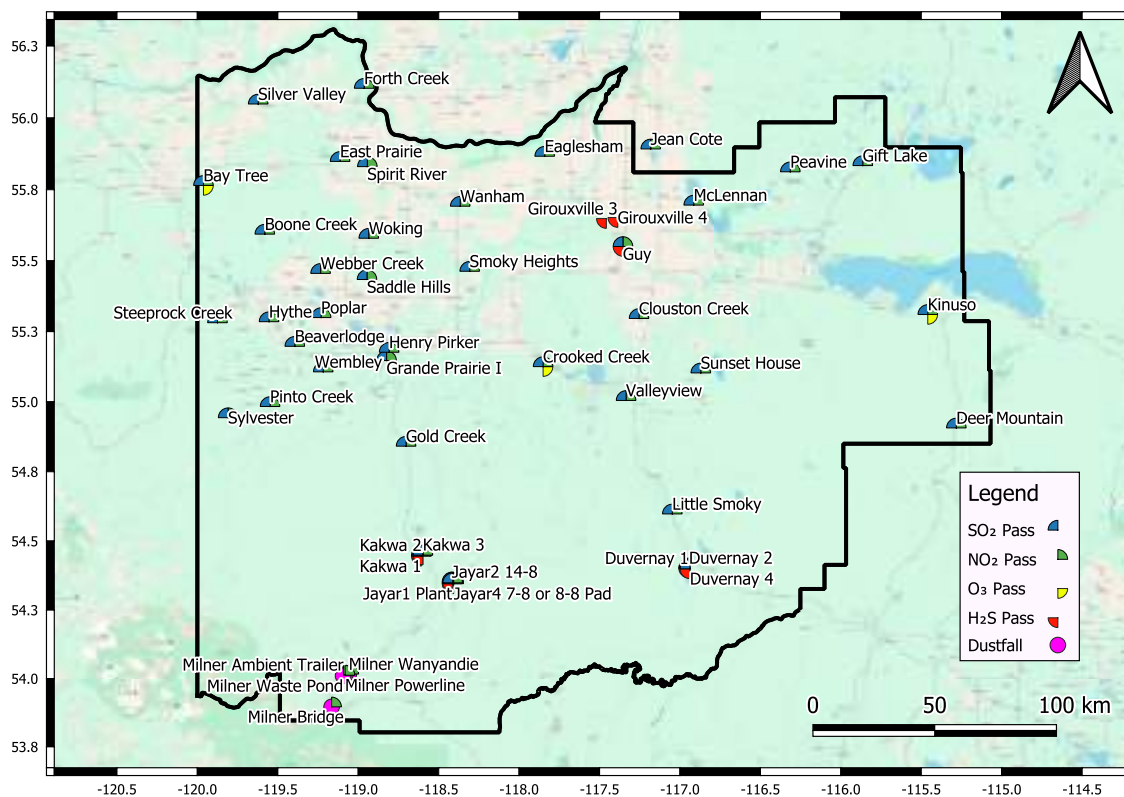
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 April 2025 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 - April 2025 Beaverlodge Station Report

Parameter	April Average	Minimum	Valid	Operational	Max	1-hour Objective	Max Day and Time	Max	24-hour Objective	Max Day	Exceedance				Calibration Date
NO (ppb)	0.1	0.0	95.1%	100.0%	7.6	-	Apr-17 08:00	0.4	-	Apr-17	-	-	-	-	Apr 03, 2025
NO ₂ (ppb)	2.1	0.3	95.1%	100.0%	11.8	150	Apr-18 00:00	4.1	-	Apr-09	0	-	-	-	Apr 03, 2025
NO _x (ppb)	2.2	0.3	95.1%	100.0%	21.1	-	Apr-17 08:00	4.4	-	Apr-09	-	-	-	-	Apr 03, 2025
O ₃ (ppb)	38.4	14.0	95.4%	100.0%	53.9	76	Apr-24 16:00	43.0	-	Apr-25	0	-	-	-	Apr 03, 2025
PM _{2.5} (µg/m³)	2.5	0.3	99.8%	100.0%	14.0	80	Apr-01 04:00	5.3	29	Apr-25	0	-	0	-	Apr 06, 2025
SO ₂ (ppb)	0.2	0.0	95.4%	100.0%	5.7	172	Apr-07 23:00	0.9	48	Apr-17	0	-	0	0	Apr 06, 2025
Average Minimum Valid Operational Maximum															
Temp (°C)	6.3	-6.9	100.0%	100.0%	19.2	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	44.6	15.6	100.0%	100.0%	95.3										
WS (m/hr)	13.5	0.2	100.0%	100.0%	51.7										
WD (deg)	267	1.4	100.0%	100.0%	358.4	Average Wind Direction 267 W									

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42HQ	No operational issues noted during the month
O ₃	Thermo	49HQ	No operational issues noted during the month
PM _{2.5}	API	T640	No operational issues noted during the month
SO ₂	Thermo	43i-TLE	No operational issues noted during the month
Met Equip	MetOne	50.5	No operational issues noted during the month

1.2 Dunes Air Monitoring Station

PAZA - April 2025 Dunes Station Report

Parameter	April Average	Minimum	Valid	Operational	Max	10min / 1-hour Objective	Max Day and Time	Max	24-hour Objective	Max Day	Exceedance				Calibration Date
PM _{2.5} (µg/m³)	2.2	0.0	96.7%	96.9%	27.0	80	Apr-25 08:00	5.9	29	Apr-26	0	-	0	-	Apr-23-2025
SO ₂ (ppb)	0.3	0.0	92.4%	96.9%	8.7	172	Apr-26 08:00	0.8	48	Apr-28	0	-	0	0	Apr-23-2025
TR5 (ppb)	0.4	0.0	92.2%	96.8%	2.5	5	Apr-28 09:30	0.8	3	Apr-28	0	-	0	-	Apr-23-2025
Average Minimum Valid Operational Maximum															
Temp (°C)	6.2	-12.0	96.9%	96.9%	20.8	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	45.6	14.6	96.9%	96.9%	99.9										
WS (m/hr)	4.8	0.0	96.9%	96.9%	15.6										
WD (deg)	276	0.2	96.9%	96.9%	358.5	Average Wind Direction 276 W									

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Thermo	SHARP 5030	Apr 11-12, data conn failure, 22hrs removed
SO ₂	Thermo	43i	Apr 11-12, data conn failure, 22hrs removed
TR5	Thermo	43i	Apr 11-12, data conn failure, 22hrs removed; Apr 23, as found run for SO2 and TR5, then calibration for TR5 completed later (3hr maintenance flagged for as found)
Met Equip	GI/IMYoung	MetPak/IMY8006	Apr 11-12, data conn failure, 22hrs removed

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - April 2025 Henry Pirker Station Report

Parameter	April				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)	1.4	0.0	95.1%	100.0%	52.8	-	Apr-04 08:00	7.3	-	Apr-06	-	-	-	-	Apr 01, 2025
NO ₂ (ppb)	6.4	0.8	95.1%	100.0%	36.3	159	Apr-04 07:00	31.8	-	Apr-05	0	-	-	-	Apr 01, 2025
NO _x (ppb)	7.9	1.0	95.1%	100.0%	63.4	-	Apr-04 08:00	21.5	-	Apr-04	-	-	-	-	Apr 01, 2025
O ₃ (ppb)	34.2	0.5	95.4%	100.0%	56.4	76	Apr-24 17:00	41.3	-	Apr-23	0	-	-	-	Apr 01, 2025
PM _{2.5} (µg/m ³)	4.0	0.6	99.0%	100.0%	28.0	80	Apr-06 01:00	30.0	29	Apr-06	0	-	0	-	Apr 07, 2025
SO ₂ (ppb)	0.2	0.0	95.4%	100.0%	11.9	172	Apr-22 09:00	0.9	48	Apr-22	0	-	0	0	Apr 07, 2025
H ₂ S (ppb)	0.2	0.0	95.3%	100.0%	1.5	10	Apr-03 05:00	0.4	3	Apr-02	0	-	0	-	Apr 02, 2025
CH ₄ (ppm)	2.4	3.2	93.1%	100.0%	4.5	-	Apr-06 05:00	2.7	-	Apr-06	-	-	-	-	Apr 07, 2025
THC (ppm)	2.5	2.1	95.1%	100.0%	4.5	-	Apr-06 05:00	2.7	-	Apr-06	-	-	-	-	Apr 07, 2025
NMHC (ppm)	0.0	0.0	95.1%	100.0%	0.7	-	Apr-17 00:00	0.1	-	Apr-17	-	-	-	-	Apr 07, 2025
CO (ppm)	0.2	0.1	95.3%	100.0%	0.7	13	Apr-05 21:00	0.3	5	Apr-06	0	0	-	-	Apr 02, 2025
Average	7.1	-10.7	106.0%	100.0%	23.4	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
Temp (°C)	7.1	-10.7	106.0%	100.0%	23.4										
PR (%)	45.2	15.0	106.0%	100.0%	84.5	Average Wind Direction: 270 W									
SR (W/m ²)	177.5	0.0	106.0%	100.0%	780.2										
WS (km/hr)	9.5	0.1	106.0%	100.0%	35.9	Dec 12, 2024									
WD (deg)	270	2.6	106.0%	100.0%	358.8										

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	No operational issues noted during the month
O ₃	TECO	43i	No operational issues noted during the month
PM _{2.5}	API	T540	No operational issues noted during the month
SO ₂	Thermo	43i-TLE	No operational issues noted during the month
H ₂ S	TEI	450i	No operational issues noted during the month
THC/CH ₄ /NMHC	TEI	55i	No operational issues noted during the month
CO	Thermo	48i-TLE	No operational issues noted during the month
Met Equip	MetOne	50.5	No operational issues noted during the month

1.4 Smoky Heights Air Monitoring Station

PAZA - April 2025 Smoky Heights Station Report

Parameter	April				10min / 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)	3.5	0.0	92.6%	100.0%	48.9	80	Apr-25 22:00	11.0	29	Apr-25	0	-	0	-	Apr 23, 2025
SO ₂ (ppb)	0.3	0.0	95.0%	100.0%	3.0	172	Apr-23 08:00	0.7	48	Apr-04	0	-	0	0	Apr 23, 2025
TRS (ppb)	0.1	0.0	94.0%	100.0%	1.1	5	Apr-23 05:30	0.2	3	Apr-24	0	-	0	-	Apr 23, 2025
Average	5.8	-9.3	106.0%	100.0%	20.1	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
Temp (°C)	5.8	-9.3	106.0%	100.0%	20.1										
WS (km/hr)	14.0	0.1	106.0%	100.0%	49.1	Average Wind Direction: 254 WNW									
WD (deg)	254	4.5	106.0%	100.0%	359.6										

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	No operational issues noted during the month
SO ₂	TECO	43i	No operational issues noted during the month
TRS	TEI	43i-APSA	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 - April 2025 Valleyview Station Report

Parameter	April		Valid	Operational	Max	1-hour			24-hour			Exceedance				Calibration Date
	Average	Minimum				Objective	Max Day and Time	Max	Objective	Max Day	Max Day	1hr	8hr	14hr	30d	
SO ₂ (ppb)	0.1	0.0	95.1%	100.0%	1.1	172	Apr-07 10:00	0.3	48	Apr-07	Apr-07	0	0	0	0	Apr 24, 2025
H ₂ S (ppb)	0.1	0.0	95.1%	100.0%	0.9	10	Apr-27 00:00	0.3	3	Apr-27	Apr-27	0	0	0	0	Apr 24, 2025
Average Minimum Valid Operational Maximum																
Temp (°C)	6.2	-11.5	100.0%	100.0%	22.9	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%										
RH (%)	51.8	16.1	100.0%	100.0%	96.8											
WS (mi/hr)	5.4	0.1	100.0%	100.0%	18.2											
WD (deg)	272	0.4	100.0%	100.0%	359.0											
Average Wind Direction										272	NW					

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	TEI	43i-WPSCB	No operational issues noted during the month
H ₂ S	TEI	450i-APHA / 43C	No operational issues noted during the month
Met Equip	RM/Young	RVVY800M	No operational issues noted during the month

1.6 Fox Creek Air Monitoring Station

PAZA - April 2025 Fox Creek Station Report

Parameter	April		Valid	Operational	Max	1-hour			8-hour / 24-hour			Exceedance				Calibration Date
	Average	Minimum				Objective	Max Day and Time	Max	Objective	Max Day	Max Day	1hr	8hr	14hr	30d	
NO (ppb)	3.2	0.0	95.1%	100.0%	45.1	-	Apr-02 06:00	7.9	-	Apr-08	Apr-08	-	-	-	-	Apr 24, 2025
NO ₂ (ppb)	6.1	0.2	95.1%	100.0%	52.9	139	Apr-02 07:00	30.9	-	Apr-25	Apr-25	0	-	-	-	Apr 24, 2025
NO _x (ppb)	9.5	0.2	95.1%	100.0%	72.8	-	Apr-02 06:00	37.0	-	Apr-24	Apr-24	-	-	-	-	Apr 24, 2025
O ₃ (ppb)	34.1	1.2	95.3%	100.0%	54.0	76	Apr-04 10:00	42.8	-	Apr-11	Apr-11	0	-	-	-	Apr 24, 2025
PM _{2.5} (µg/m ³)	3.9	0.7	99.7%	100.0%	23.1	80	Apr-10 10:00	7.5	29	Apr-30	Apr-30	0	-	0	-	Apr 24, 2025
SO ₂ (ppb)	0.2	0.0	95.4%	100.0%	4.1	172	Apr-05 10:00	0.7	48	Apr-05	Apr-05	0	-	0	0	Apr 24, 2025
H ₂ S (ppb)	0.1	0.0	95.0%	100.0%	0.5	10	Apr-17 19:00	0.2	3	Apr-30	Apr-30	0	-	0	-	Apr 25, 2025
Average Minimum Valid Operational Maximum																
Temp (°C)	5.7	-14.0	100.0%	100.0%	22.7	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%										
WS (mi/hr)	6.8	0.3	100.0%	100.0%	28.9											
WD (deg)	284	0.5	100.0%	100.0%	359.1											
Average Wind Direction										284	WNW					

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermal	42iQ	No operational issues noted during the month
O ₃	TECO	49c / 49i	No operational issues noted during the month
PM _{2.5}	API	T640	No operational issues noted during the month
SO ₂	TEI	43i-TLE	No operational issues noted during the month
H ₂ S	TEI	450i	Apr 23, removal cal to adjust FMT, due to as found reading high (calibration gas issue), removal calibration passed, no data removed as a result.
Met Equip	MetOne	90.5	No operational issues noted during the month

1.7 Happy Valley Air Monitoring Station

PAZA - April 2025 Happy Valley Station Report

April															
Parameter	April			30min / 1-hour				24-hour		Exceedance					Calibration
	Average	Minimum	Valid	Operational	Max	Objective x Day and Time		Max	Objective	Max Day	1hr	8hr	14hr	30d	Date
NO (ppb)	0.5	0.0	95.1%	100.0%	8.5	-	Apr-28 00:00	0.7	-	Apr-27	-	-	-	-	Apr 06, 2025
NO ₂ (ppb)	1.8	0.3	95.1%	100.0%	25.3	150	Apr-28 00:00	3.9	-	Apr-24	0	-	-	-	Apr 06, 2025
NO _x (ppb)	2.1	0.3	95.1%	100.0%	34.2	-	Apr-28 00:00	4.4	-	Apr-24	-	-	-	-	Apr 06, 2025
O ₃ (ppb)	37.1	13.7	95.4%	100.0%	54.4	76	Apr-04 15:00	45.5	-	Apr-04	0	-	-	-	Apr 06, 2025
PM _{2.5} (µg/m ³)	8.5	0.4	99.0%	100.0%	327.8	80	Apr-04 07:00	24.2	29	Apr-24	1	-	0	-	Apr 06, 2025
SO ₂ (ppb)	0.2	0.0	95.1%	100.0%	8.8	172	Apr-28 09:00	0.7	48	Apr-28	0	-	0	0	Apr 06, 2025
TRS (ppb)	0.4	0.1	95.1%	100.0%	8.0	5	Apr-03 20:00	0.7	-	Apr-03	1	-	0	-	Apr 10, 2025
THC (ppm)	2.1	1.9	95.4%	100.0%	1.0	-	Apr-17 01:00	2.3	-	Apr-17	-	-	-	-	Apr 10, 2025
Average Minimum Valid Operational Maximum															
Temp (°C)	5.7	-8.8	100.0%	100.0%	18.0	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	15.2	0.4	100.0%	100.0%	50.5										
WD (deg)	256	0.0	100.0%	100.0%	357.2										
Average Wind Direction										256 WSW					

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	42i	No operational issues noted in the month
O ₃	TEI	49i	No operational issues noted in the month
PM _{2.5}	API	T640	No operational issues noted in the month; 5x1hr readings above the AAQCG
SO ₂	TEI	43i	No operational issues noted in the month
TRS	TEI	43i	No operational issues noted in the month; 2x30min readings above the AAQCG
THC	TEI	51i	No operational issues noted in the month
Met Equip	MetOne	50.5	No operational issues noted in the month

1.8 Milner Air Monitoring Station

PAZA - April 2025 Milner Station Report

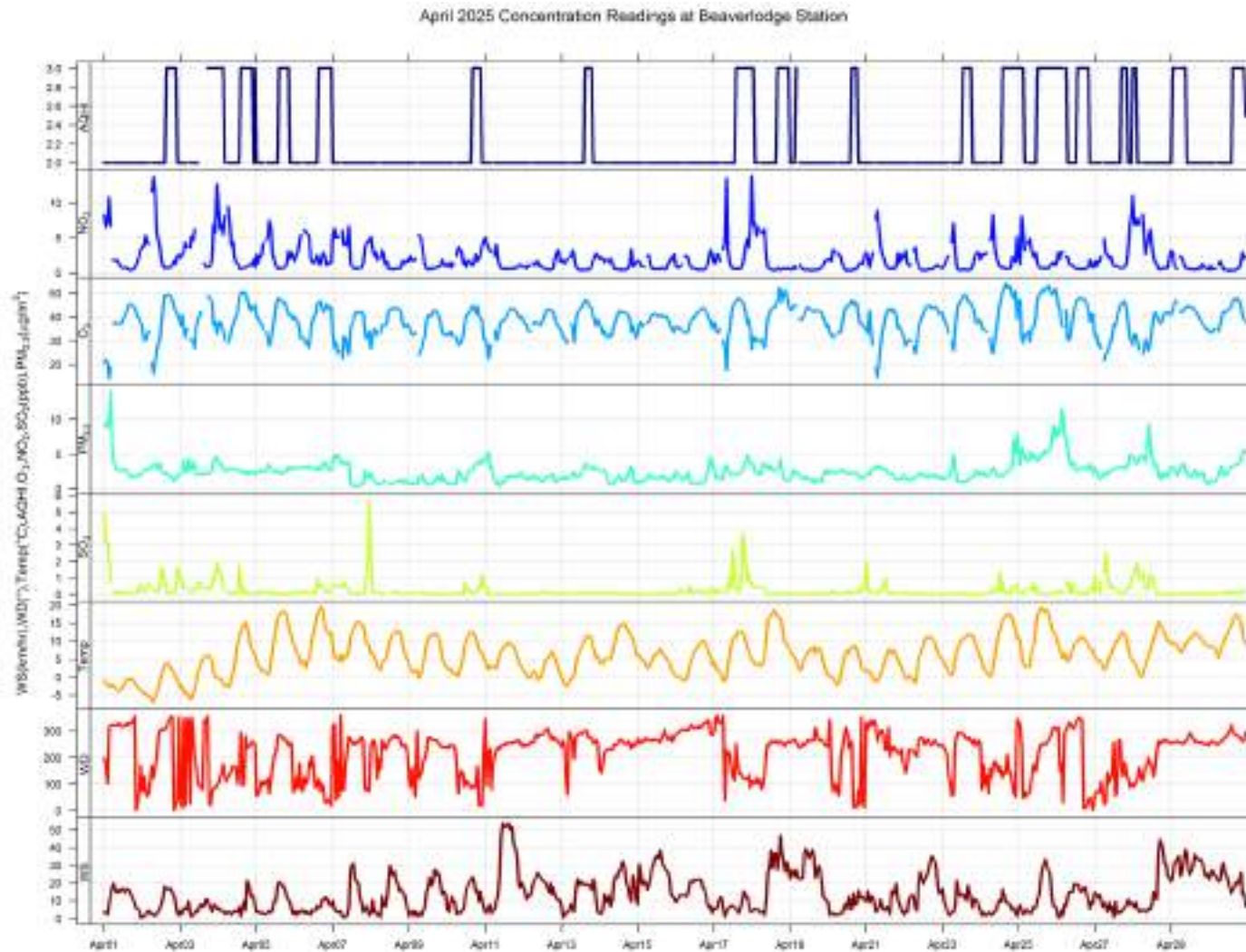
April															
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	Exceedance				Calibration Date
NO (ppb)	0.5	0.0	93.6%	98.6%	23.7	-	Apr-13 08:00	2.0	-	Apr-13	-	-	-	-	Apr 15, 2025
NO ₂ (ppb)	1.9	0.0	93.6%	98.6%	24.8	150	Apr-13 08:00	3.8	-	Apr-07	0	-	-	-	Apr 15, 2025
NO _x (ppb)	2.2	0.0	93.6%	98.6%	48.7	-	Apr-13 08:00	5.5	-	Apr-13	-	-	-	-	Apr 15, 2025
PM _{2.5} (µg/m ³)	3.3	0.3	98.5%	98.6%	25.0	80	Apr-18 13:00	9.1	29	Apr-26	0	-	0	-	Apr 15, 2025
	Average	Minimum	Valid	Operational	Maximum										
WS (mi/hr)	9.4	0.0	97.6%	97.6%	27.7	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WD (deg)	244	2.2	97.6%	97.6%	354.8										
Average Wind Direction								244		WSW					

Update Summary:

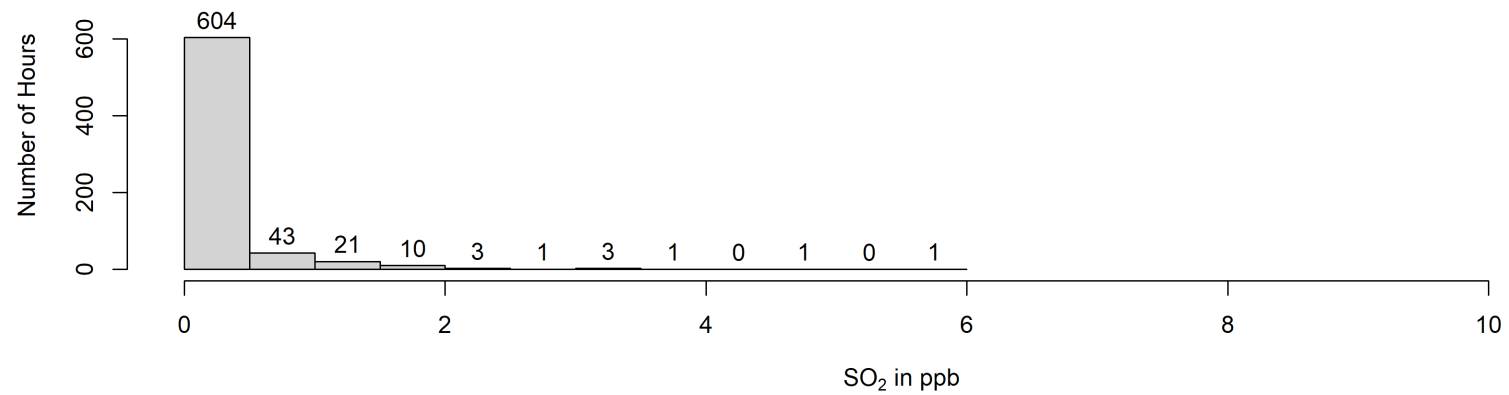
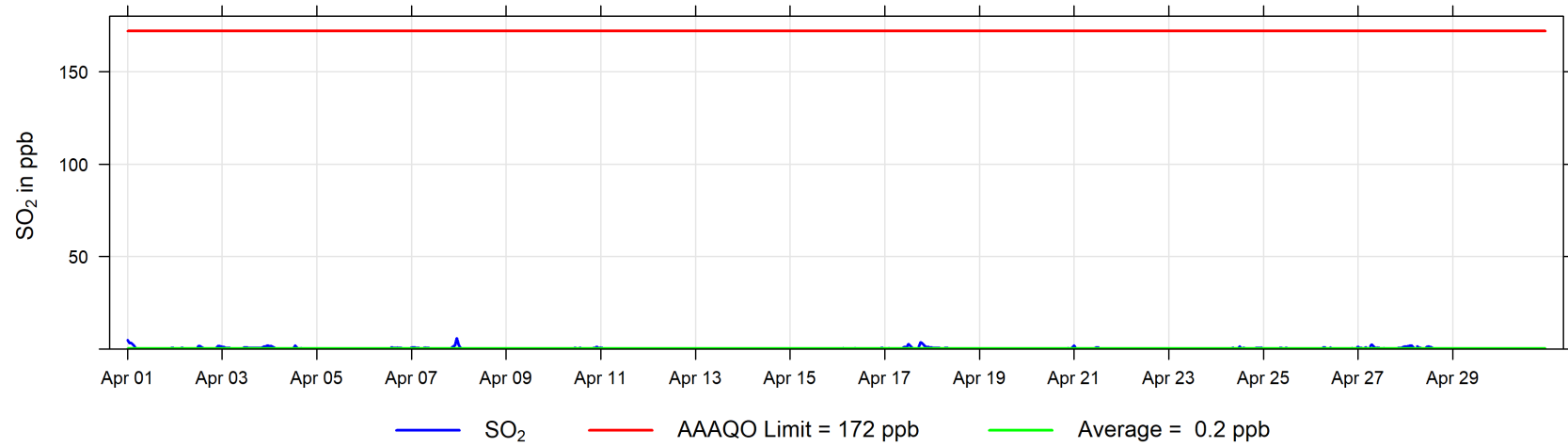
Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	Apr 21, data missing, 10hrs removed
PM _{2.5}	API	T640	Apr 21, data missing, 10hrs removed
Met Equip	MetOne	50.5	Apr 20-21, data flatlined before communication failure for wind speed, 17hrs removed

2 Beaverlodge Charts

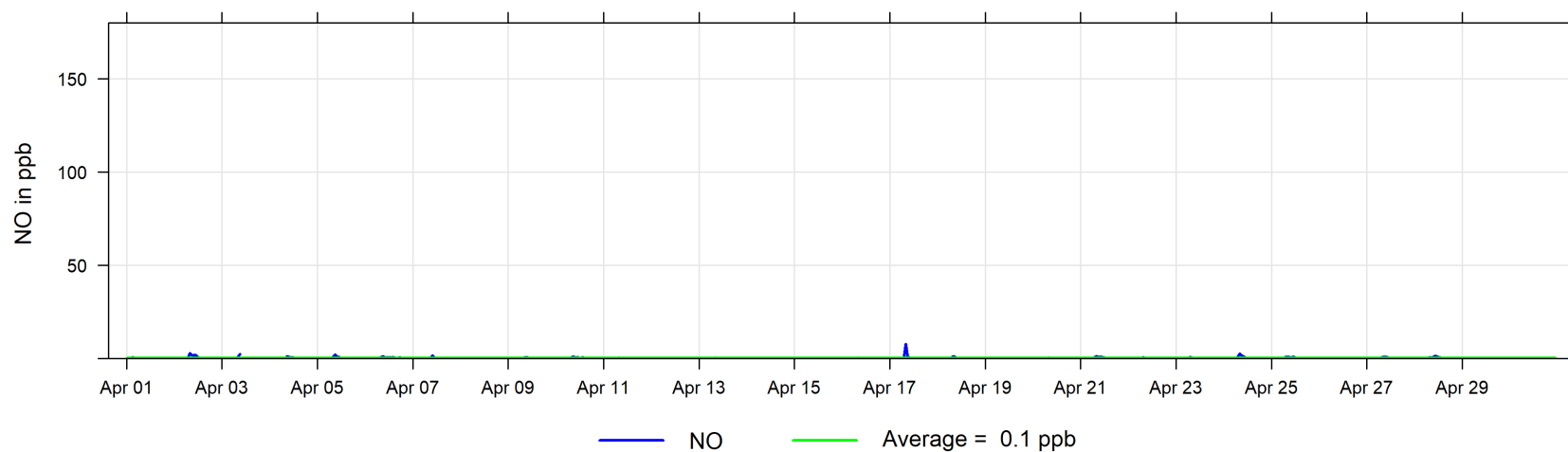
The following pages include the charts and histograms for Beaverlodge Station



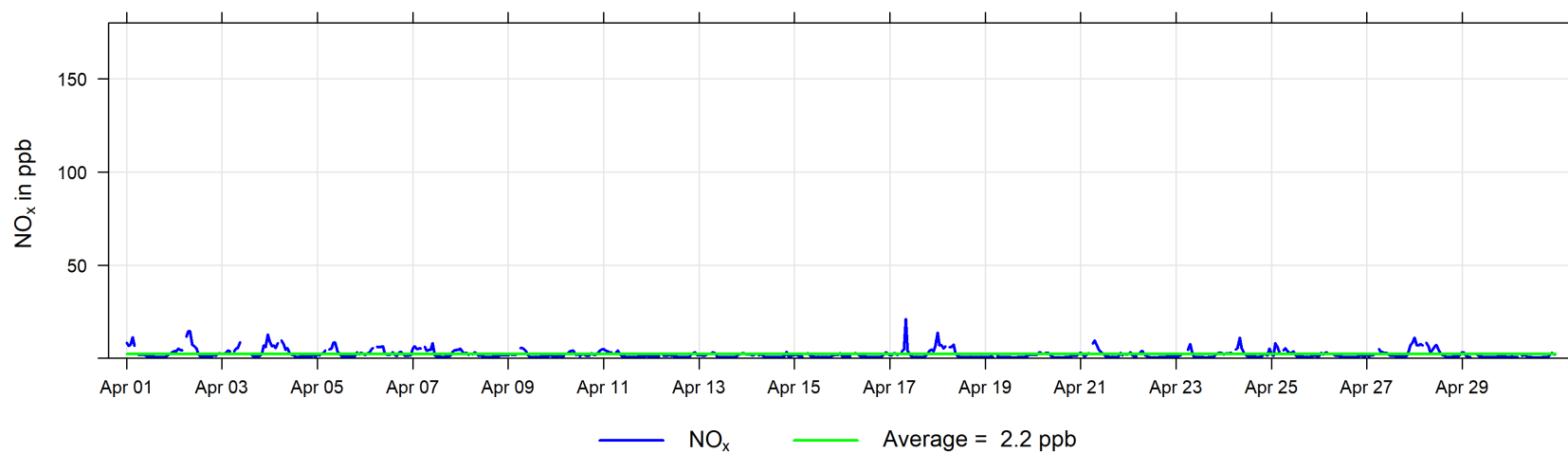
April 2025 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



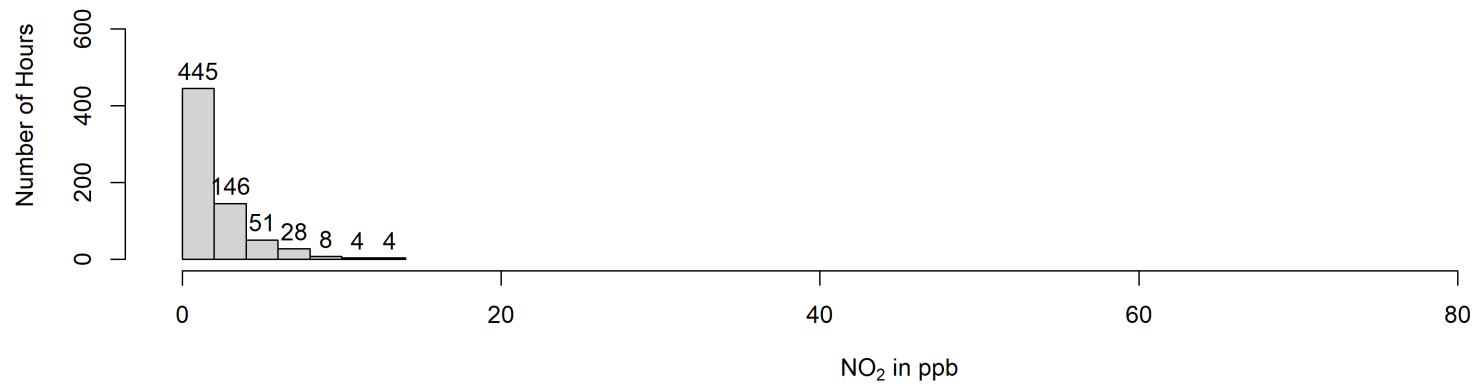
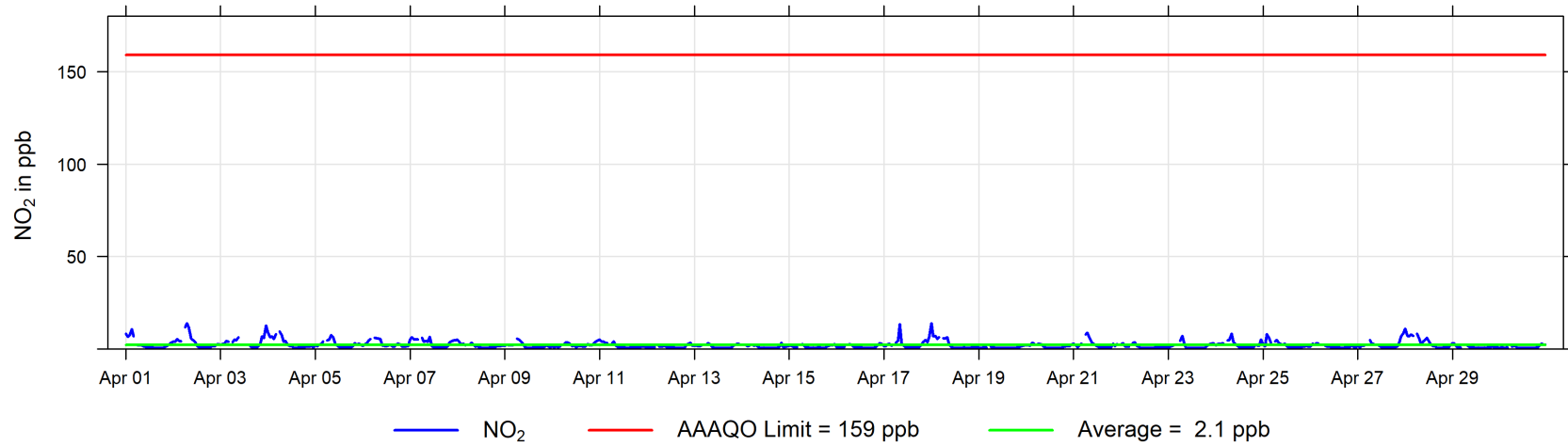
April 2025 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



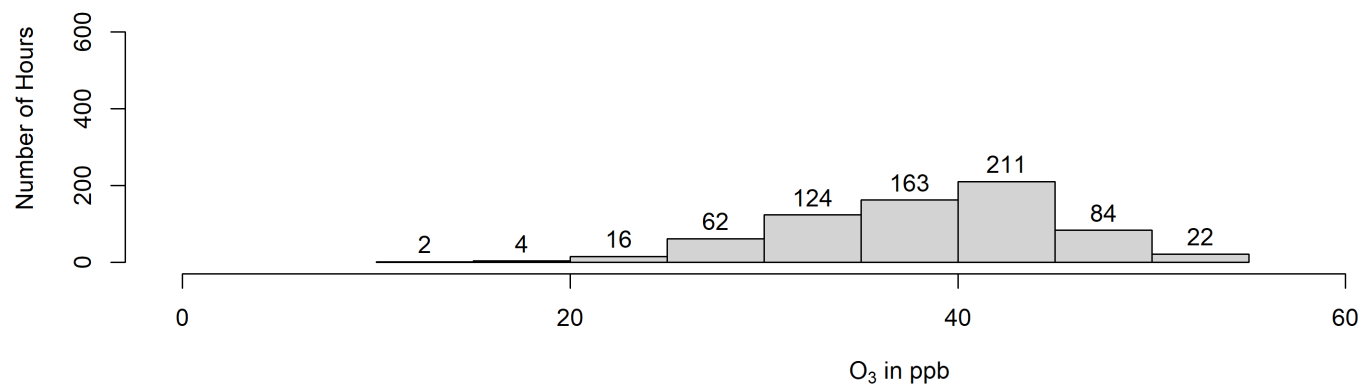
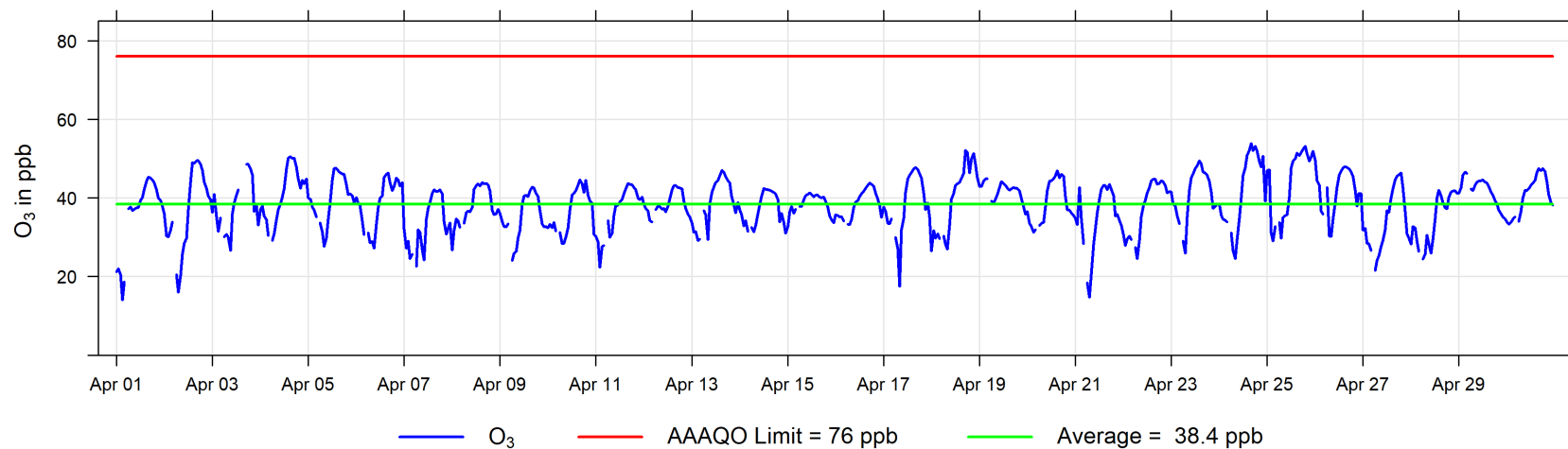
April 2025 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



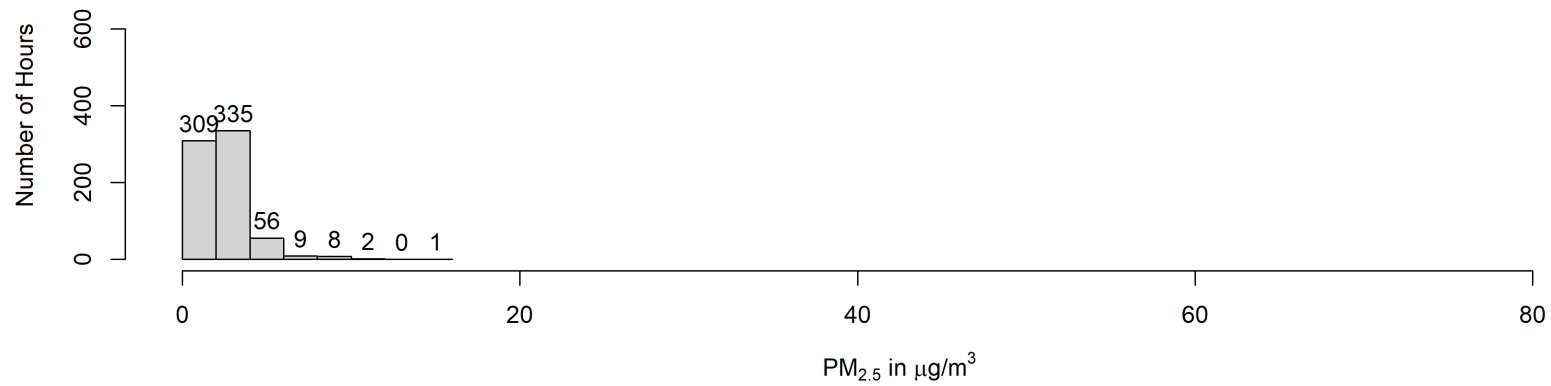
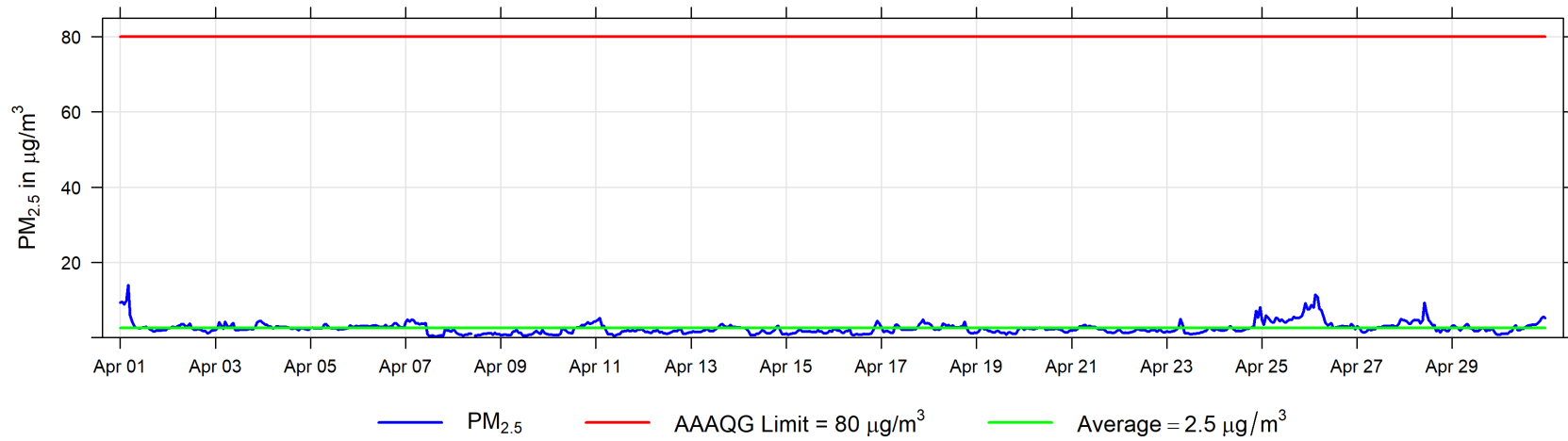
April 2025 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



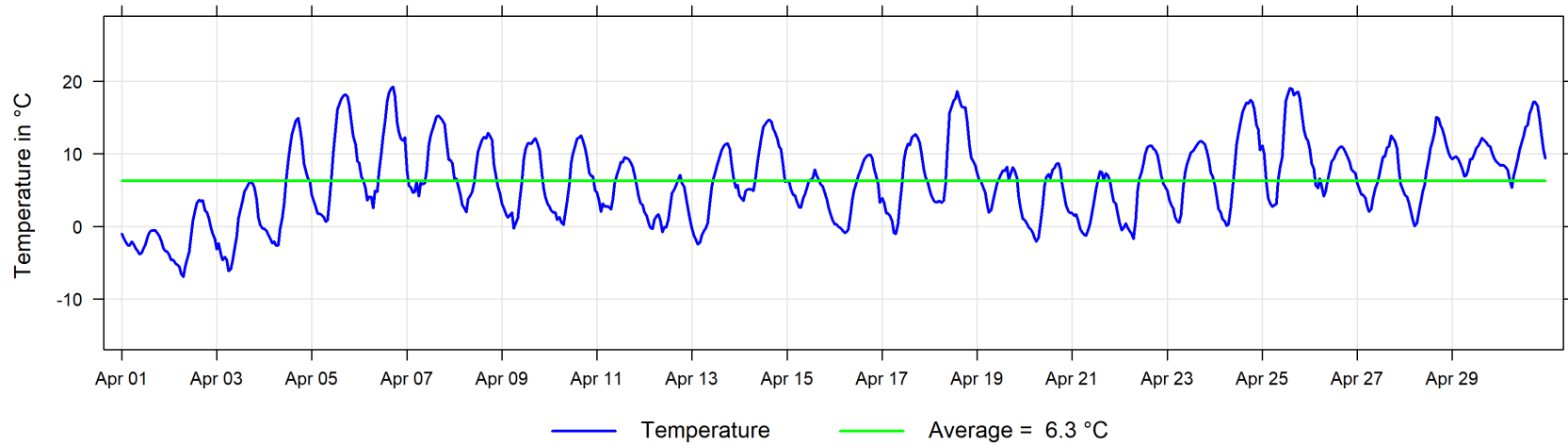
April 2025 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



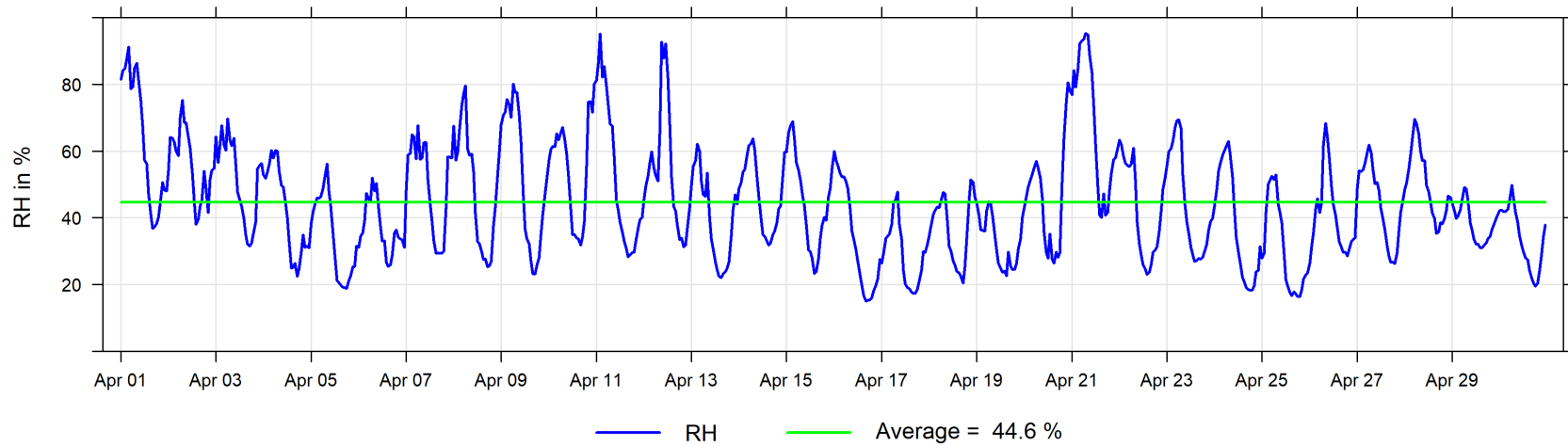
April 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



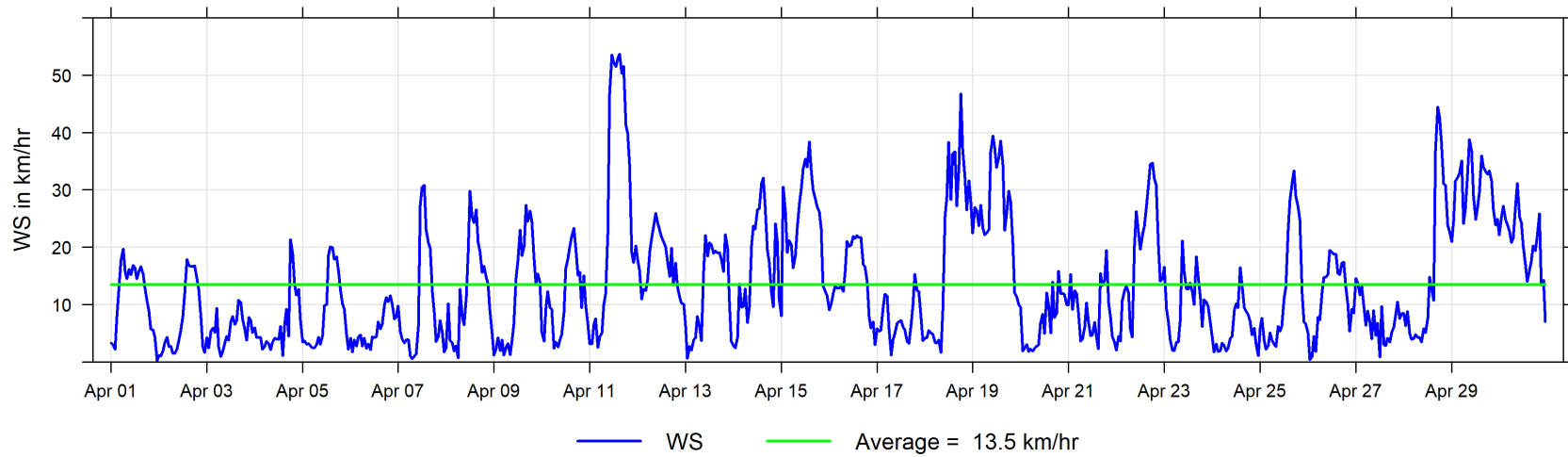
April 2025 Hourly Temperature Readings (in °C) at Beaverlodge



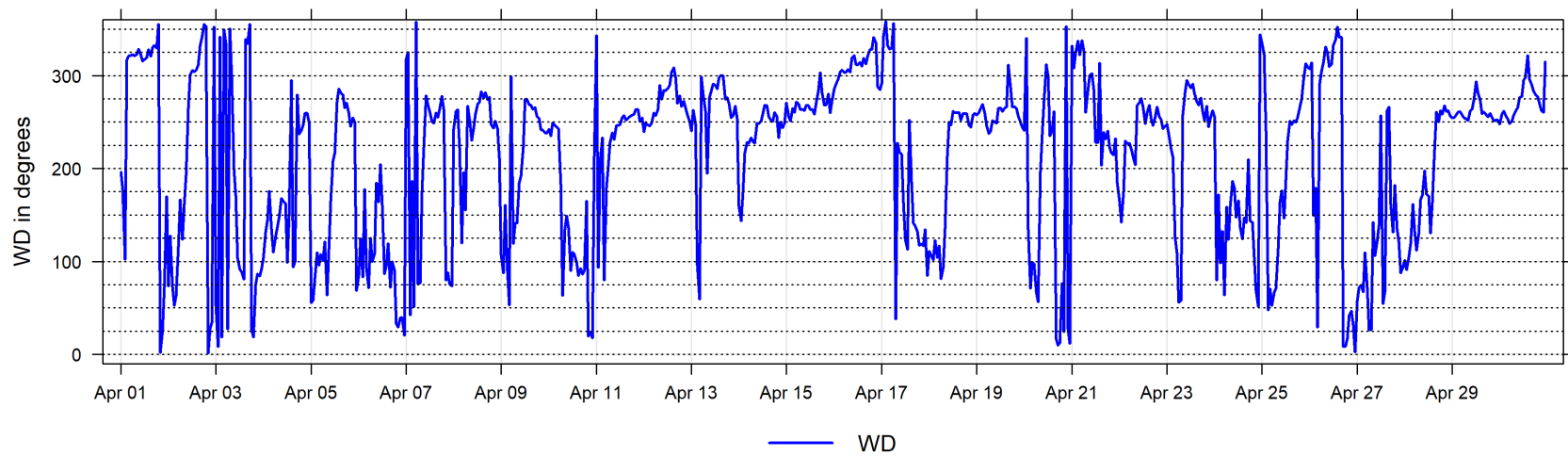
April 2025 Hourly Readings of Relative Humidity (in %) at Beaverlodge



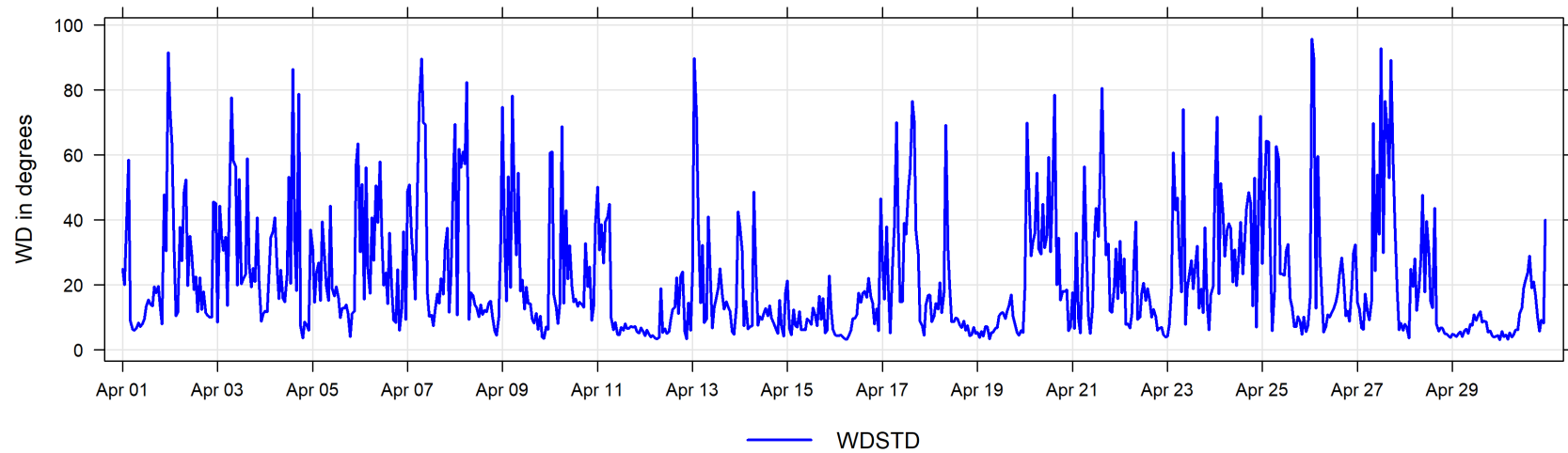
April 2025 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge

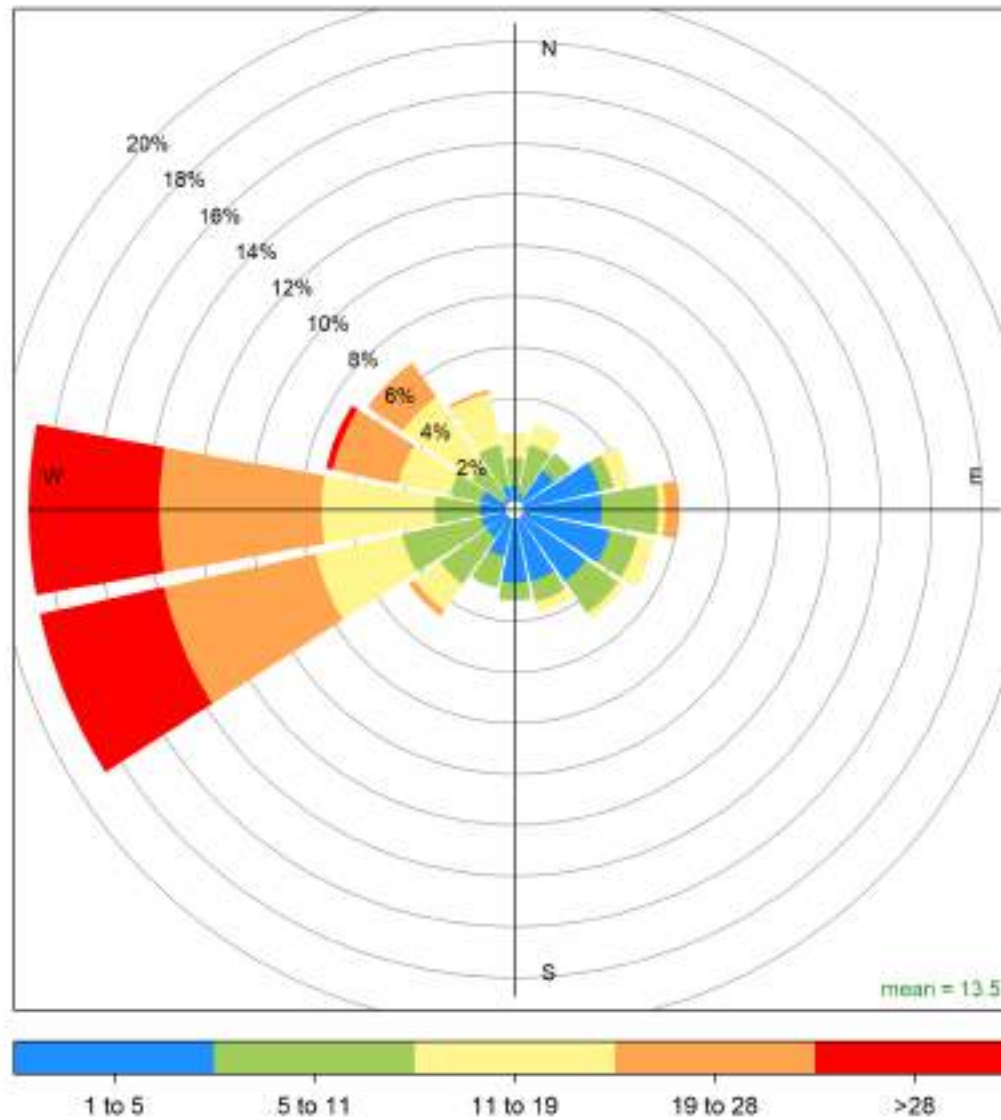


April 2025 Hourly Readings of Wind Direction (in degrees) at Beaverlodge



April 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge



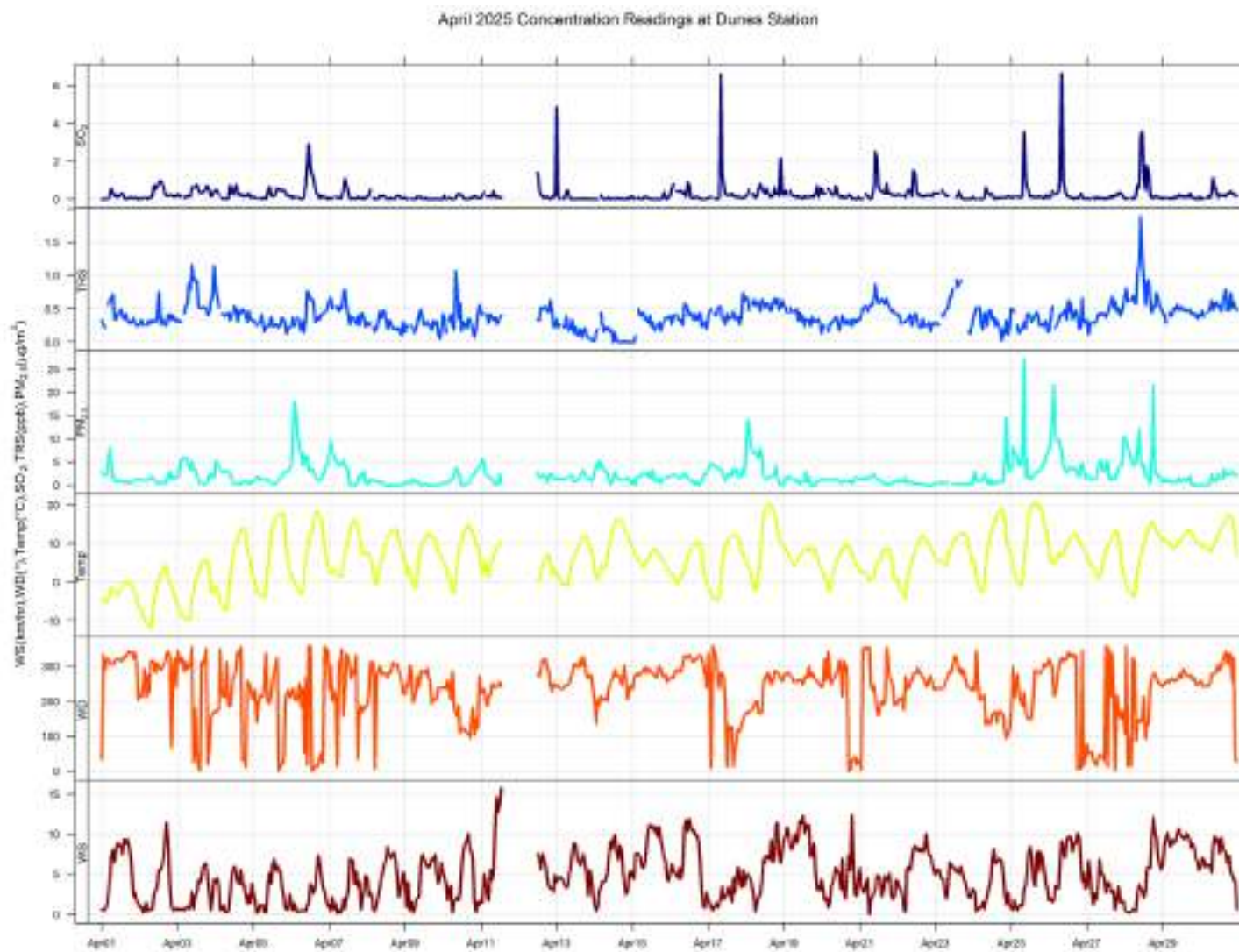


Beaverlodge April 2025 Wind Rose, wind speed in km/hr

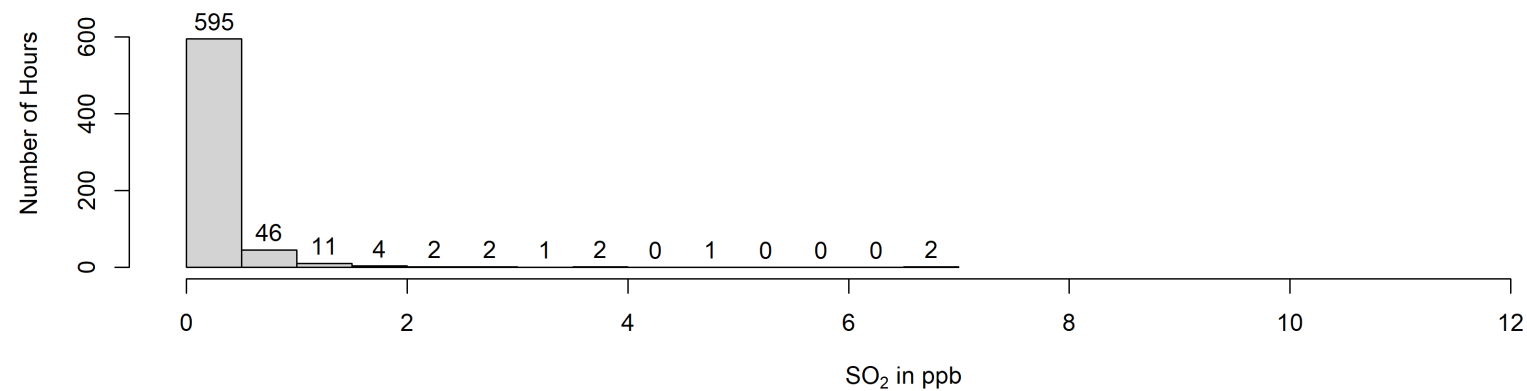
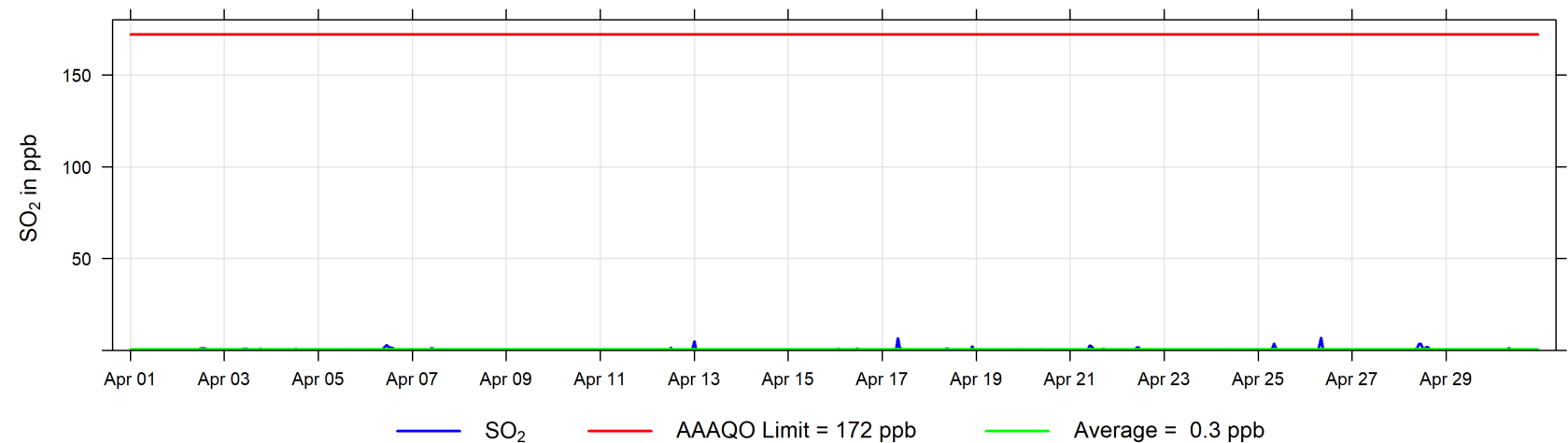
Calms (<1km/hr) = 1.2 %

3 Dunes Charts

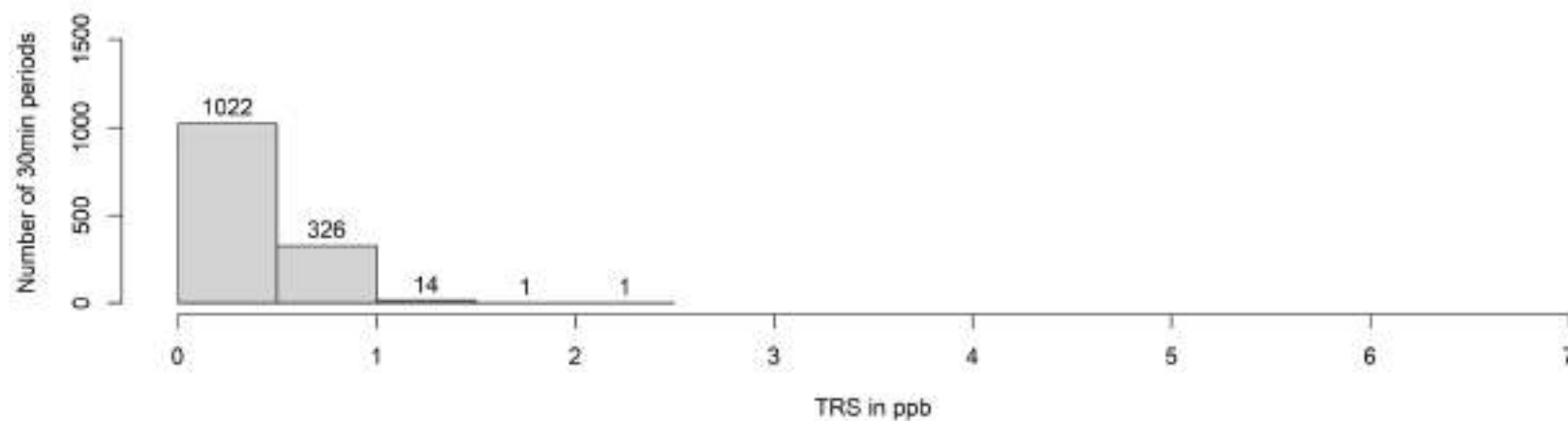
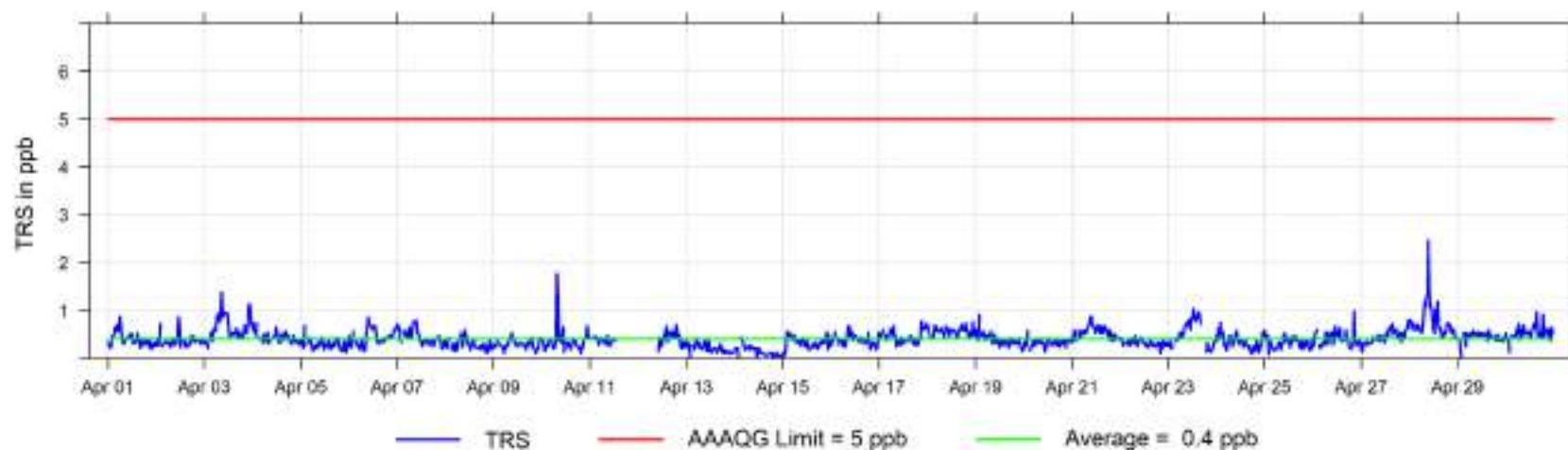
The following pages include the charts and histograms for Dunes Station



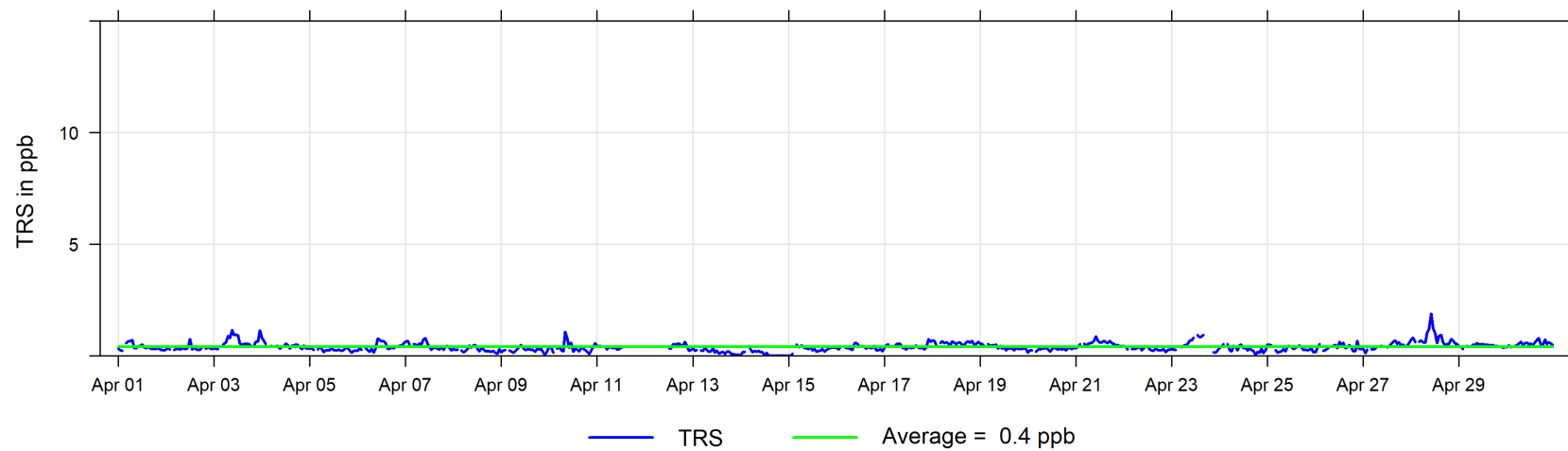
April 2025 Hourly Concentration Readings of SO₂ (in ppb) at Dunes



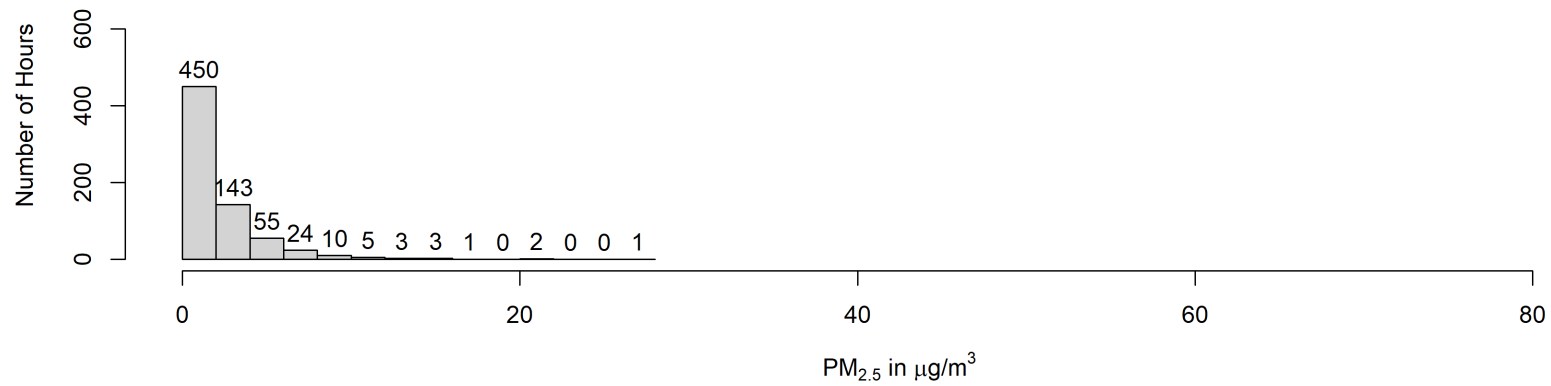
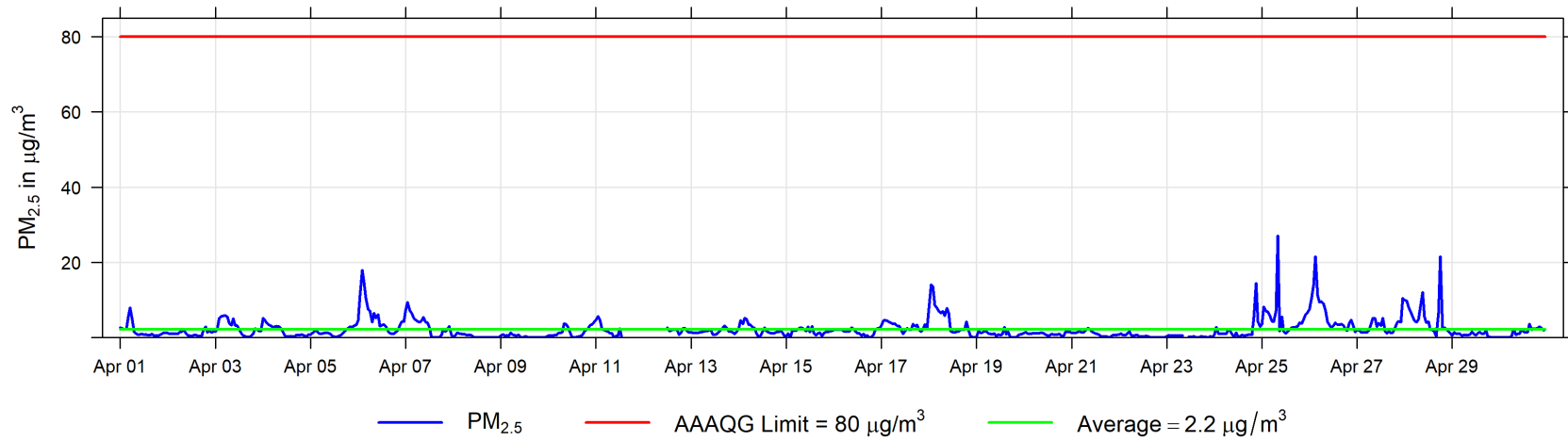
April 2025 30 min Concentration Readings of TRS (in ppb) at Dunes



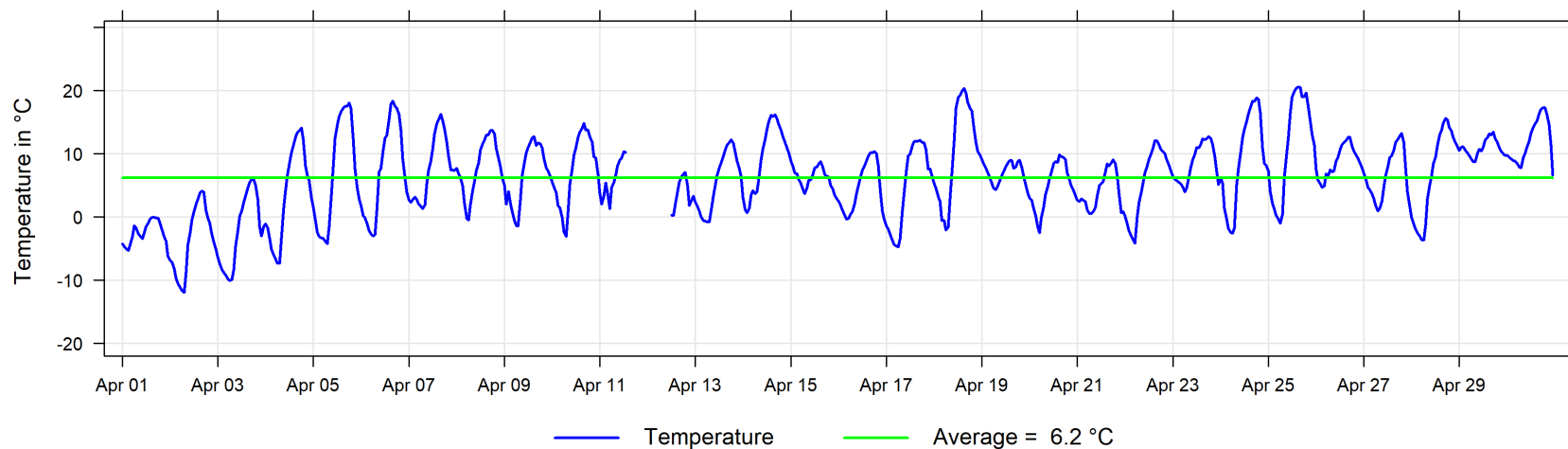
April 2025 Hourly Concentration Readings of TRS (in ppb) at Dunes



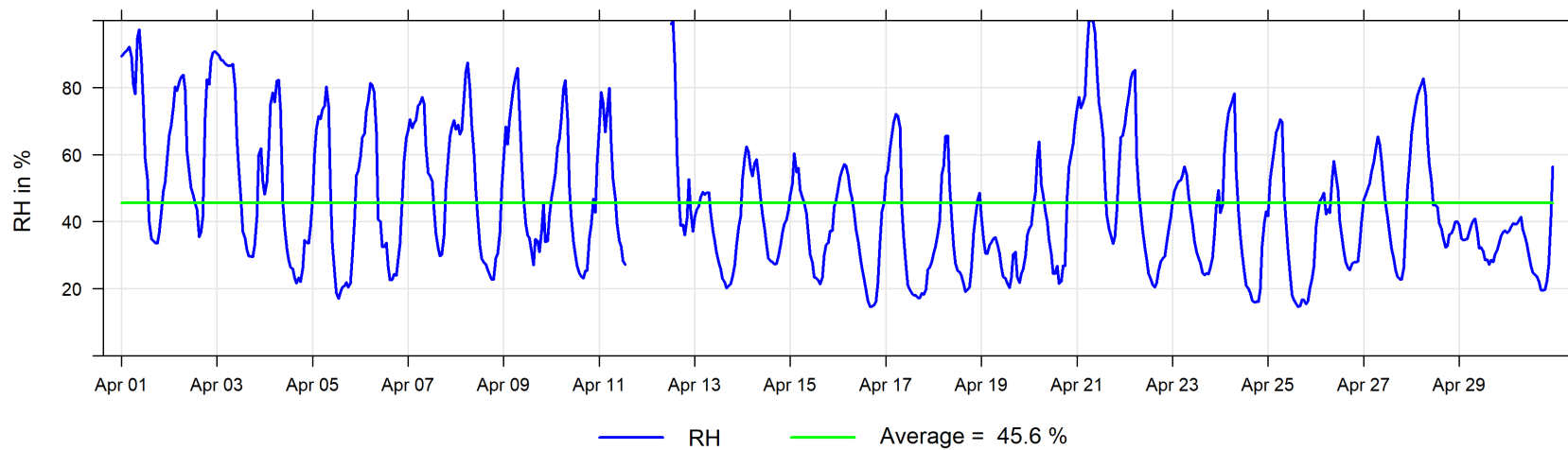
April 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes



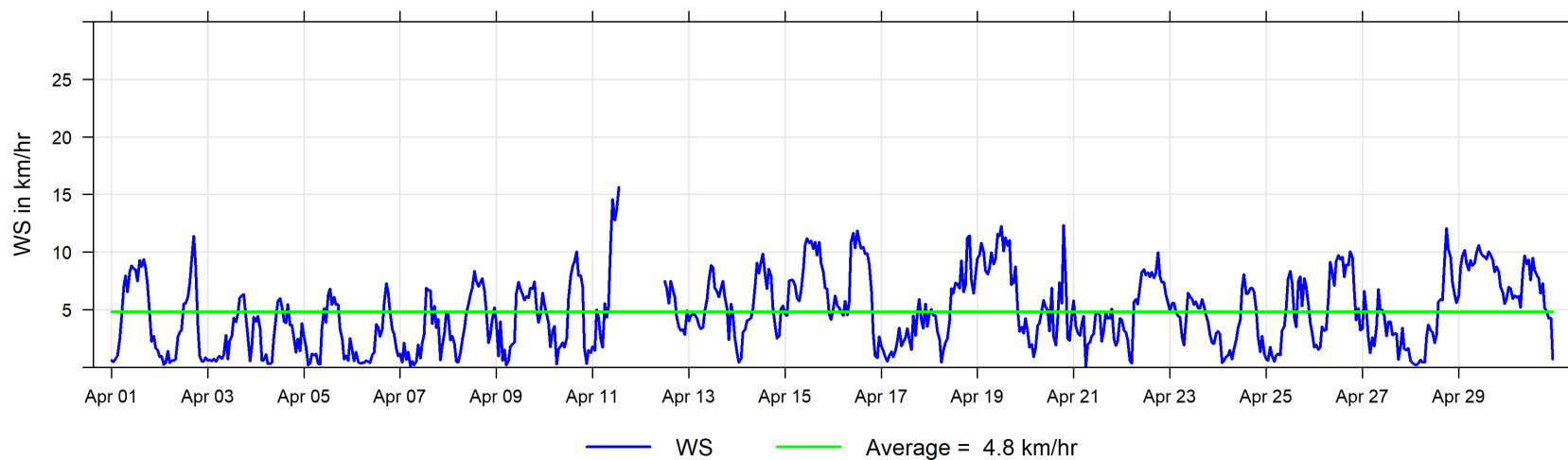
April 2025 Hourly Temperature Readings (in °C) at Dunes



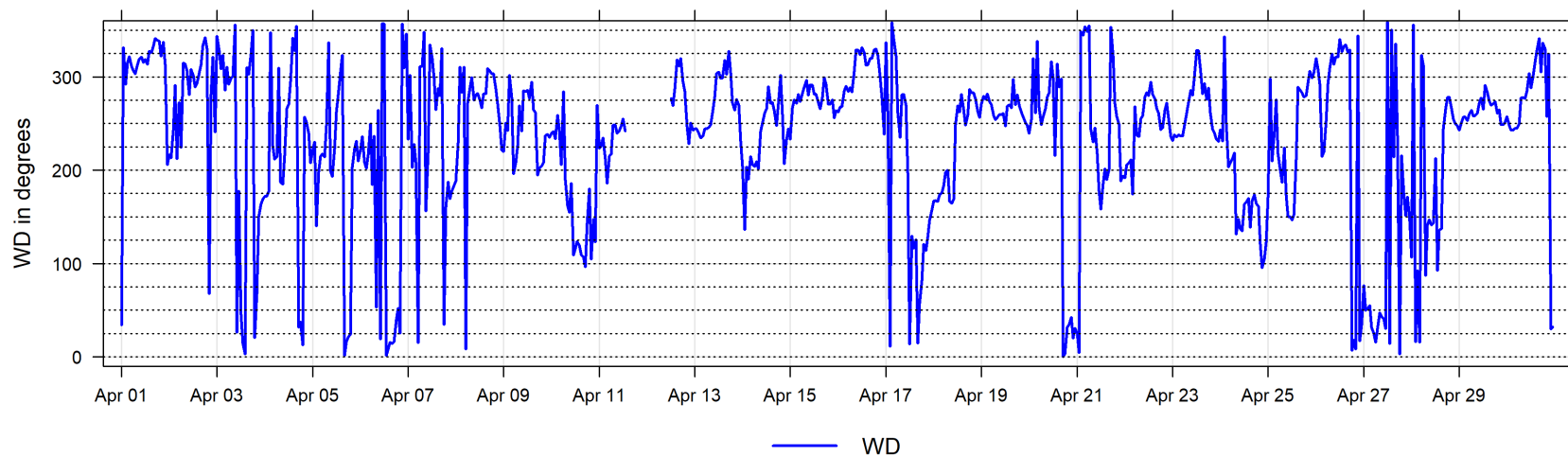
April 2025 Hourly Readings of Relative Humidity (in %) at Dunes



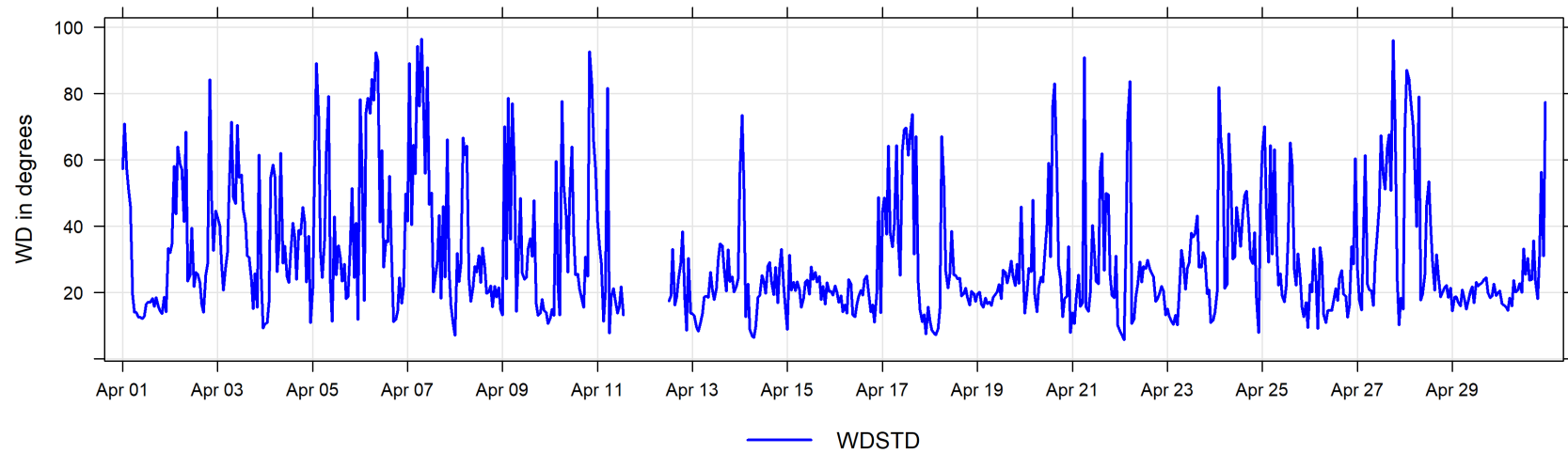
April 2025 Hourly Readings of Wind Speed (in km/hr) at Dunes

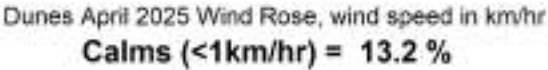


April 2025 Hourly Readings of Wind Direction (in degrees) at Dunes



April 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Dunes

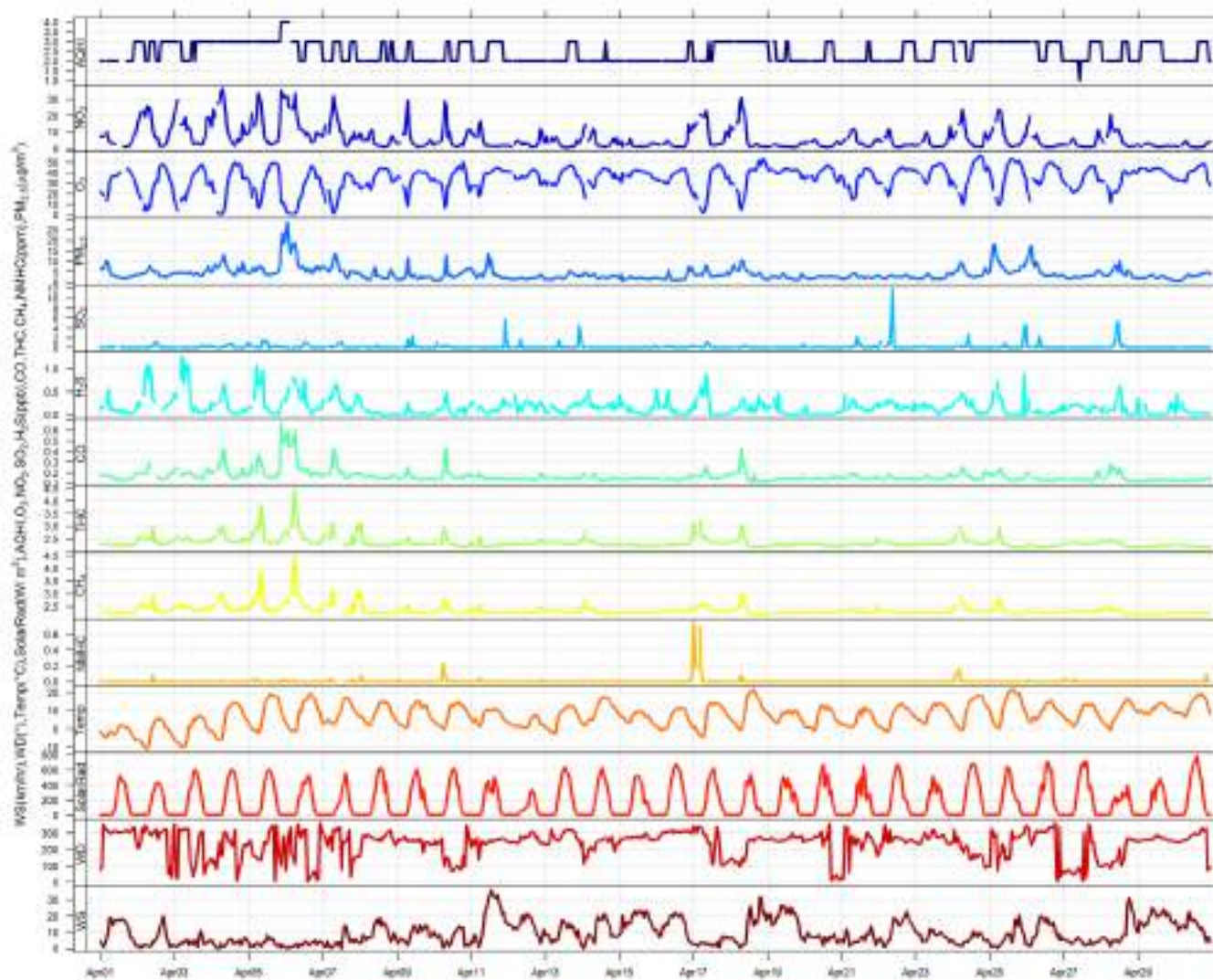




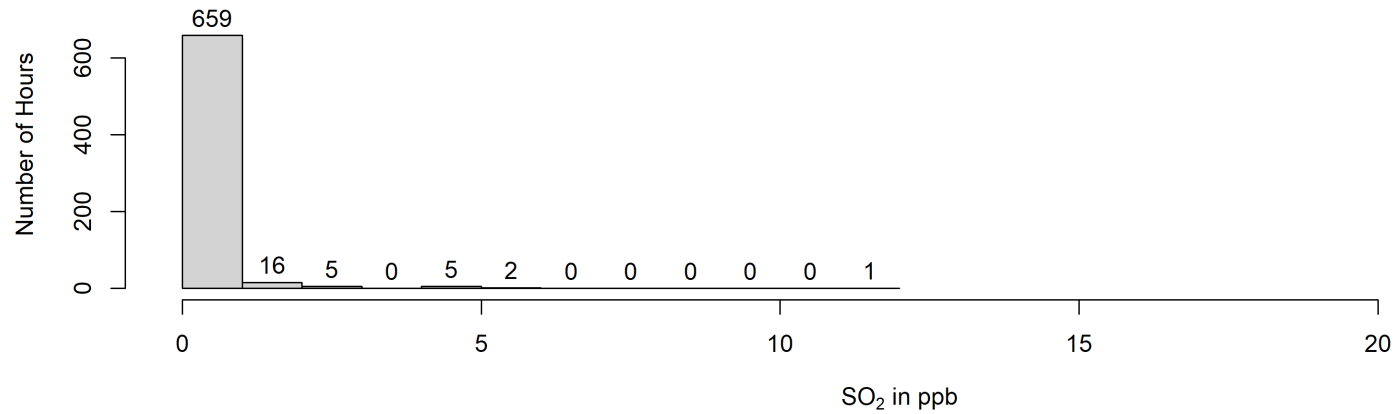
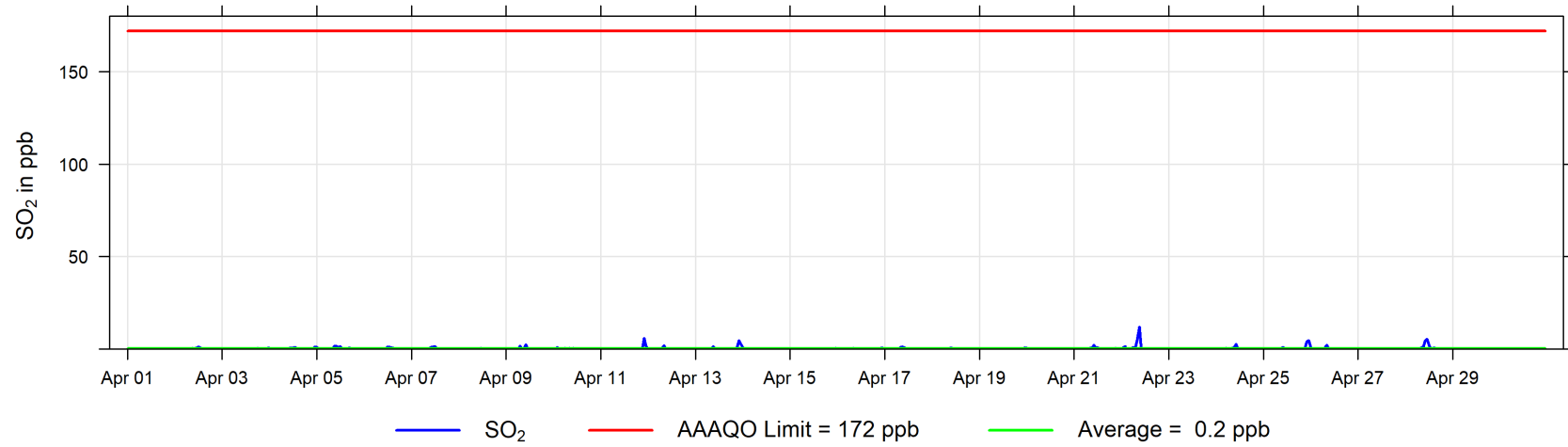
4 Grande Prairie - Henry Pirker Charts

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

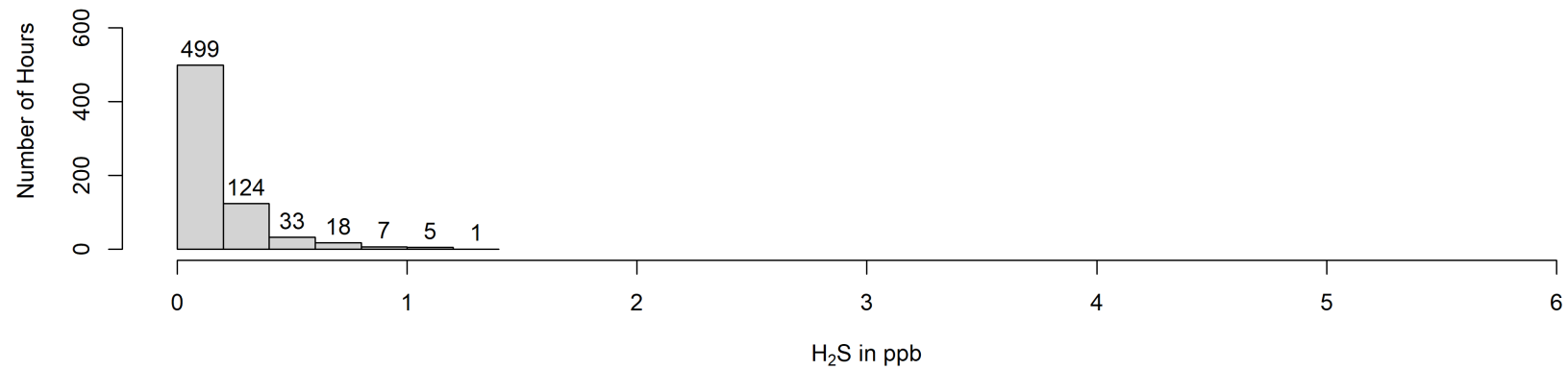
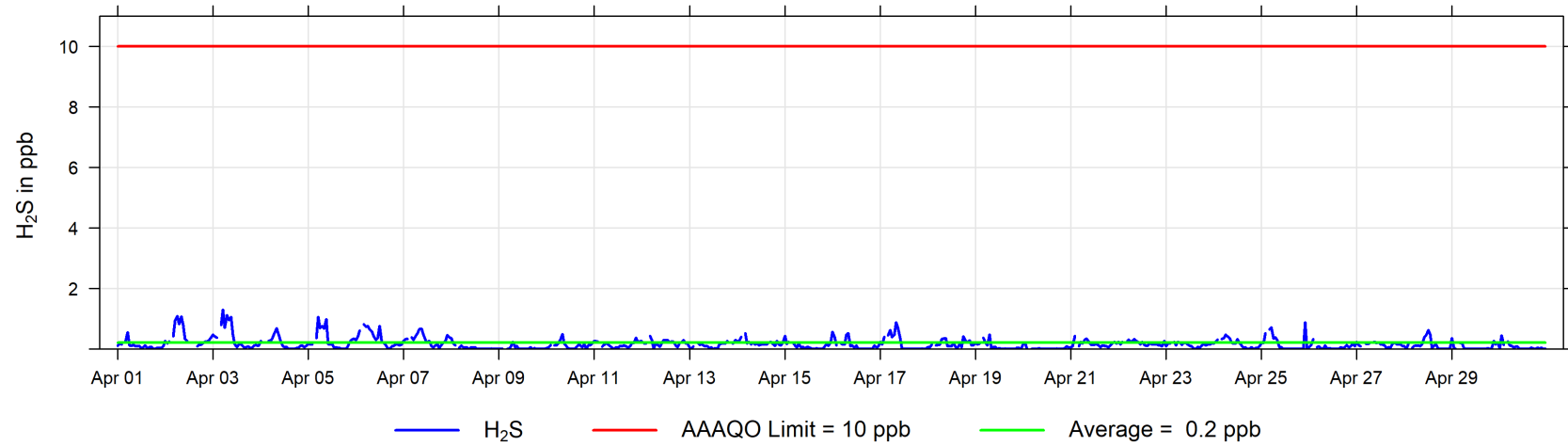
April 2025 Concentration Readings at Henry Pirker Station



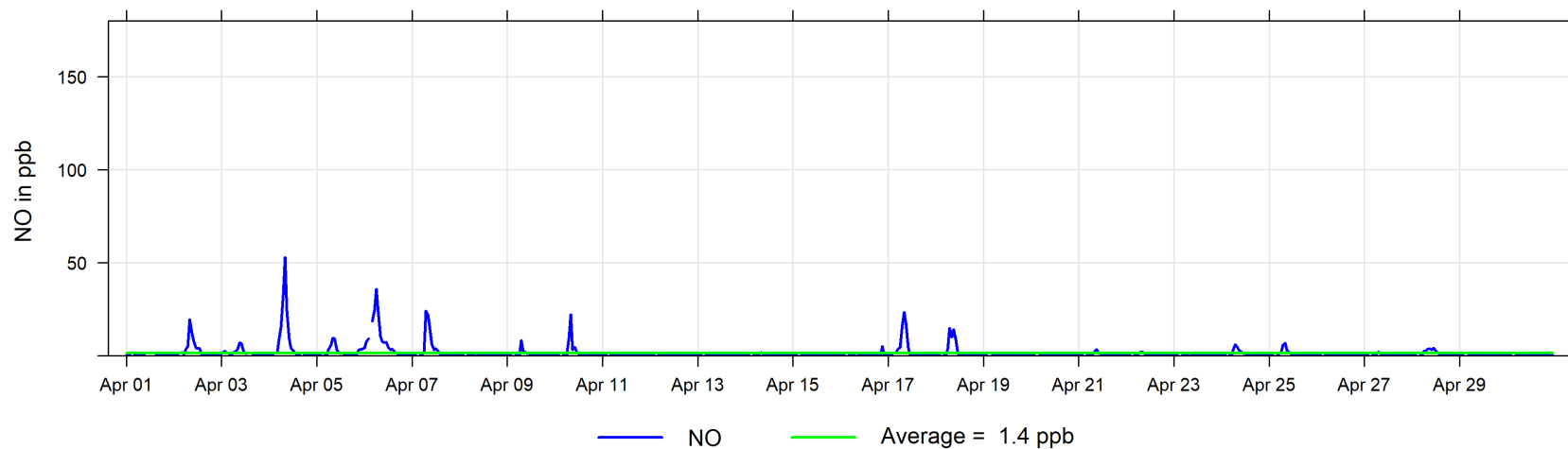
April 2025 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



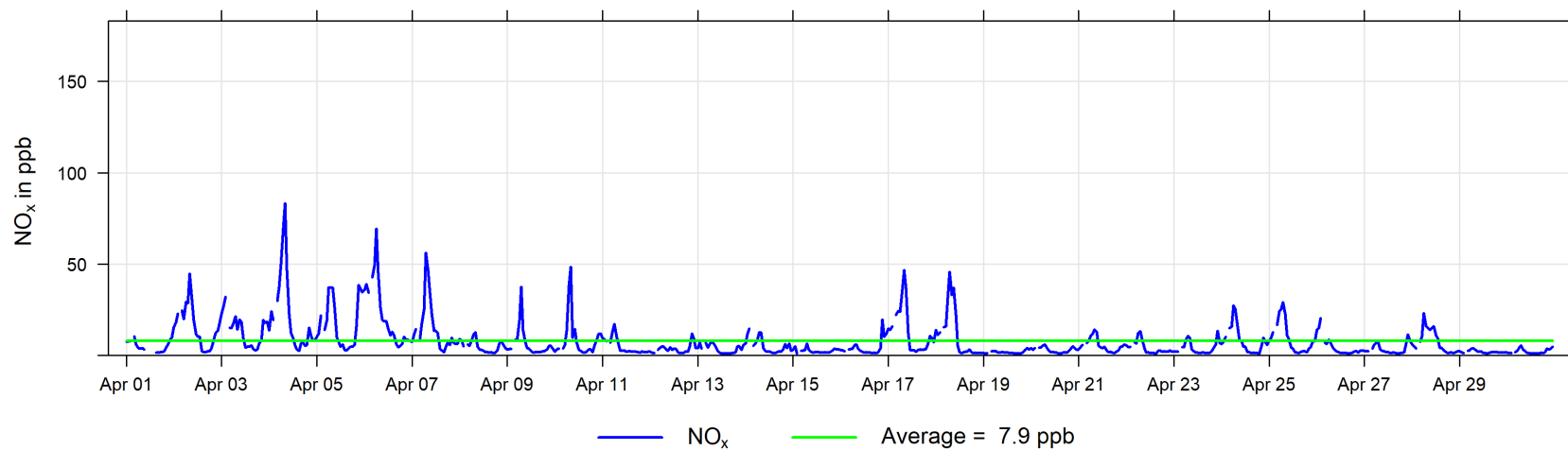
April 2025 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



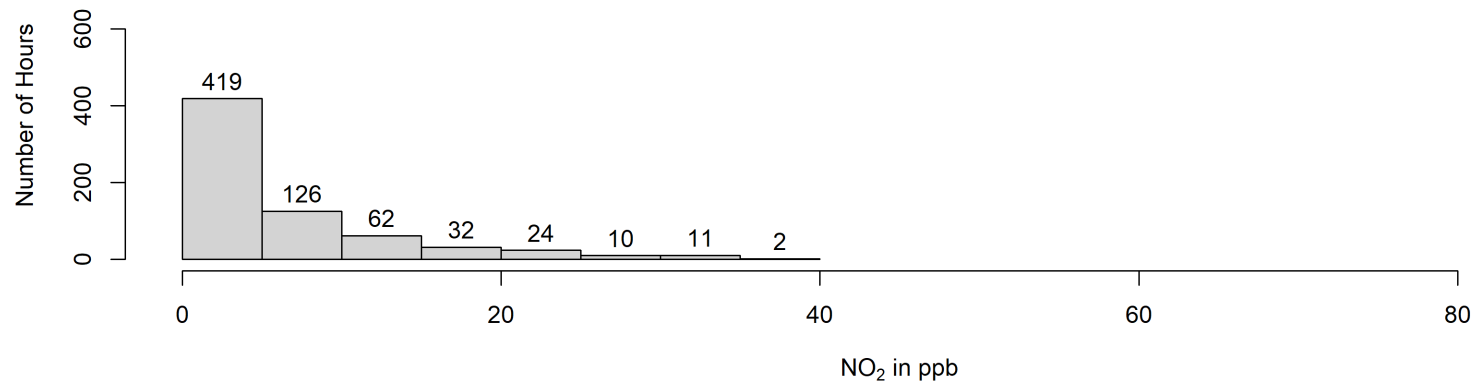
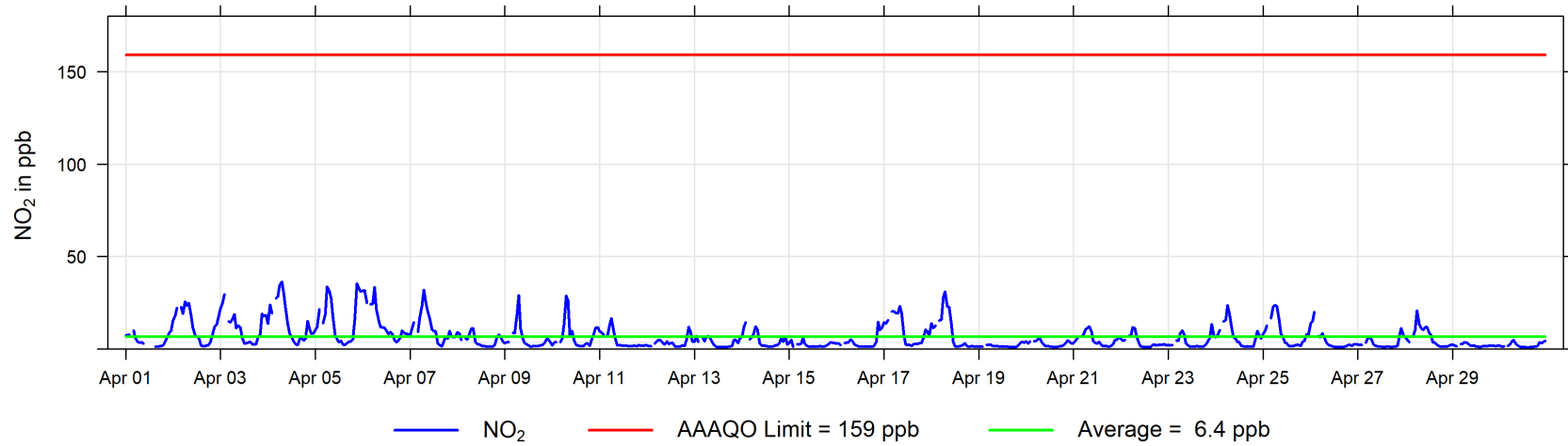
April 2025 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



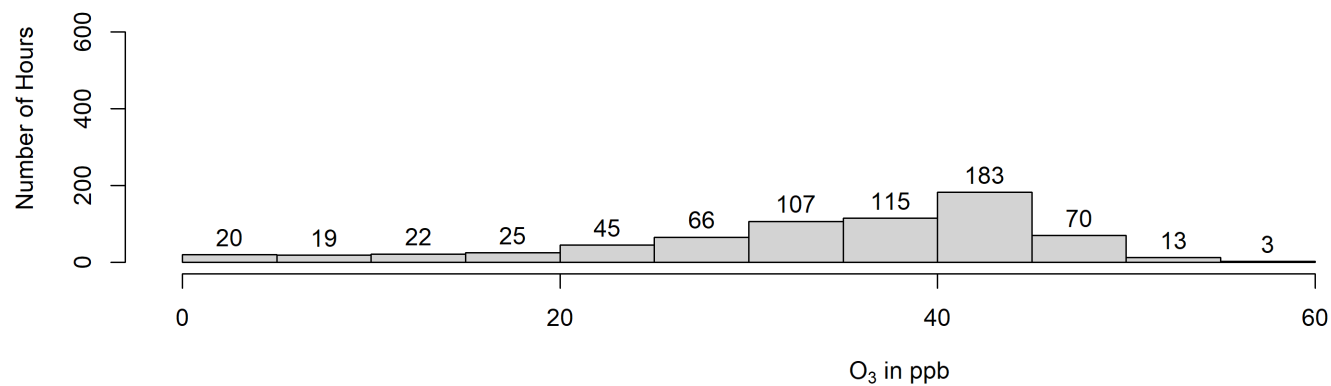
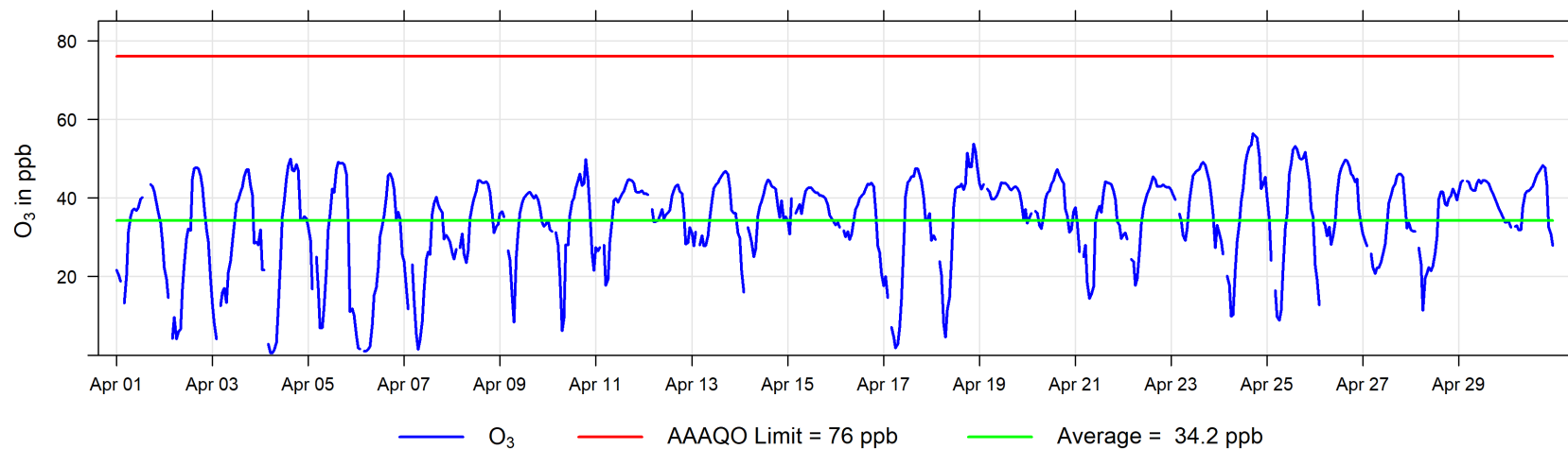
April 2025 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



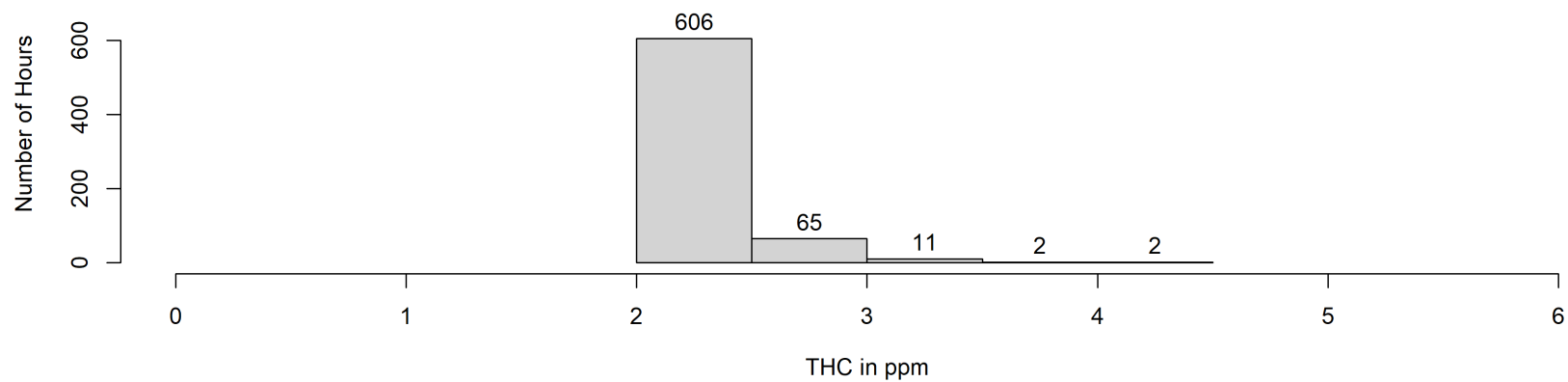
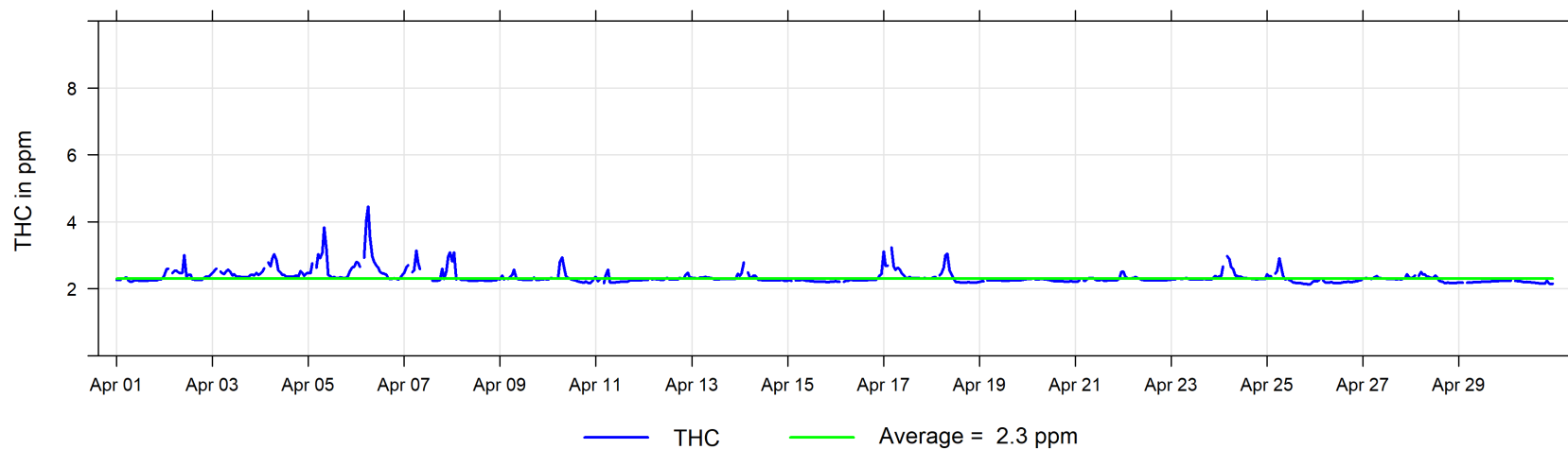
April 2025 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



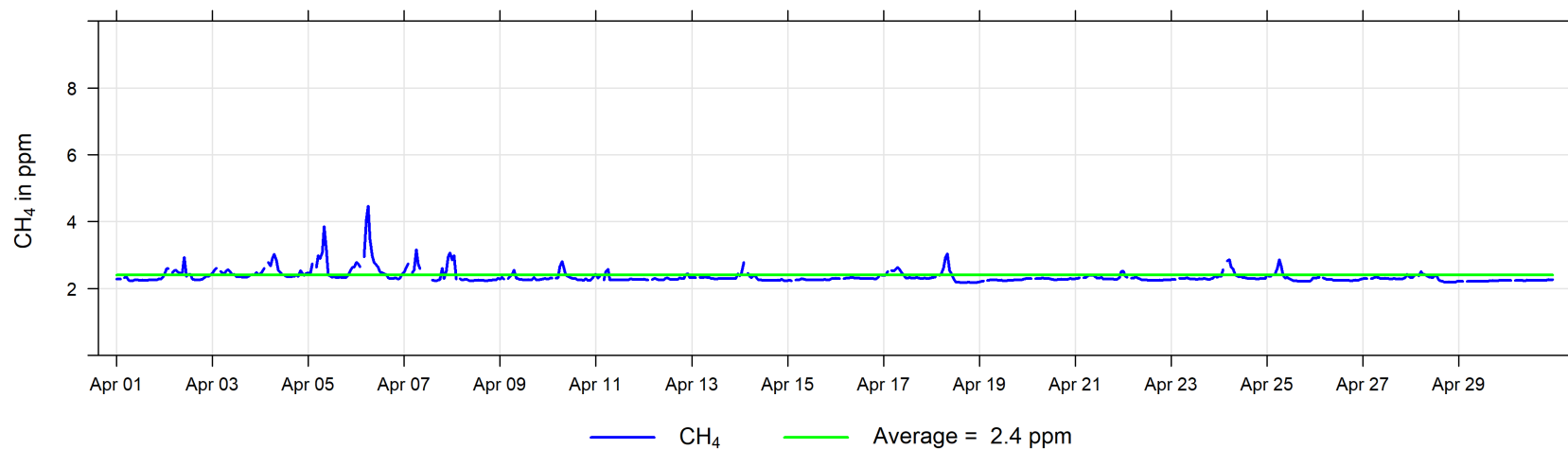
April 2025 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



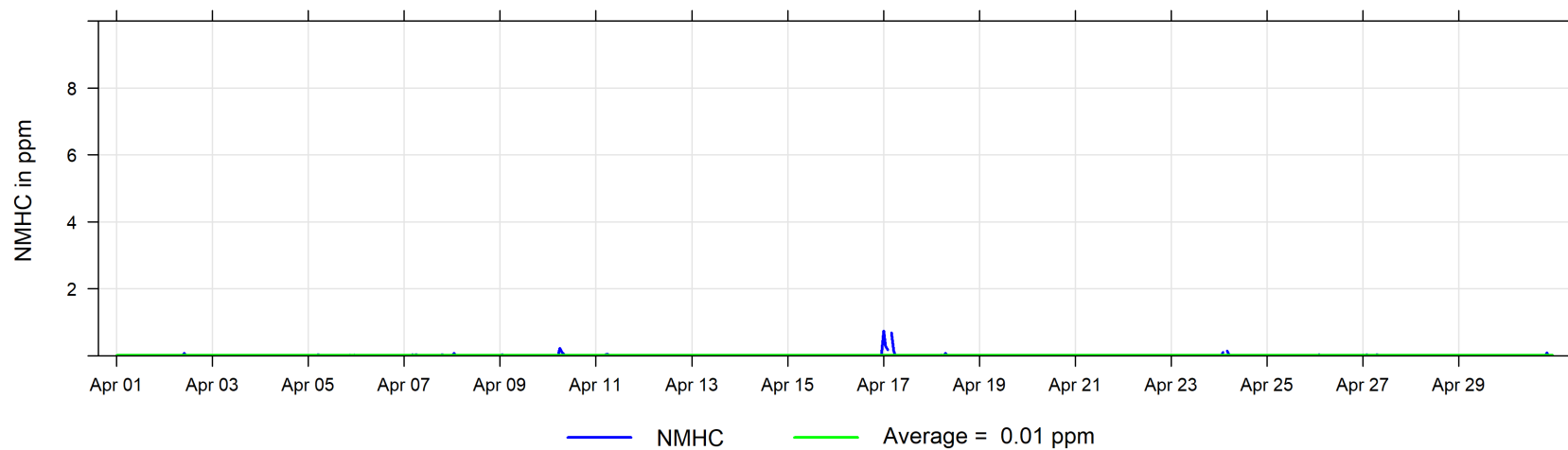
April 2025 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



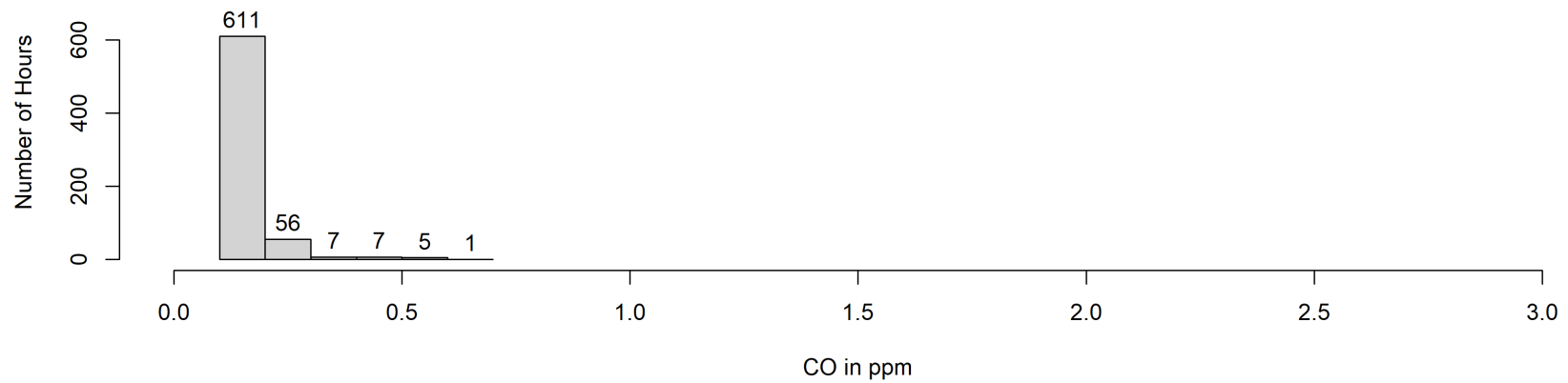
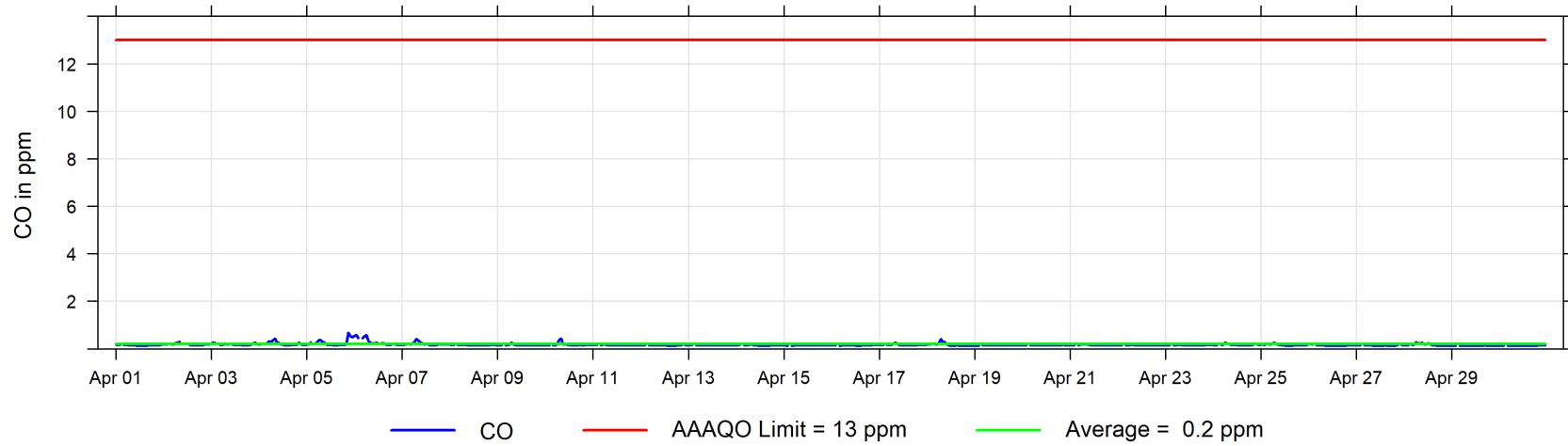
April 2025 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



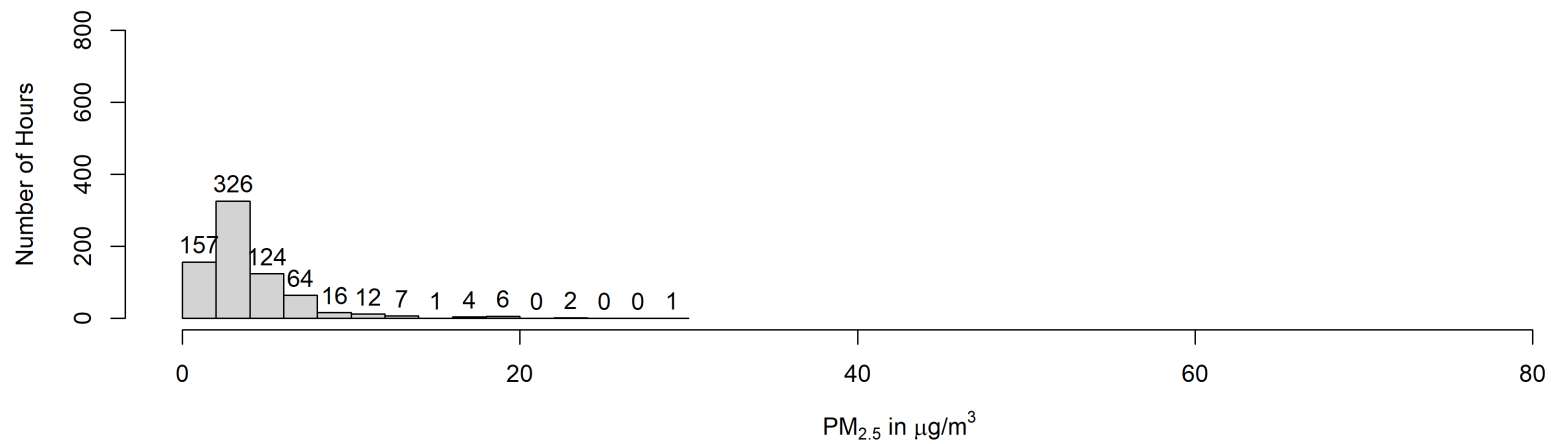
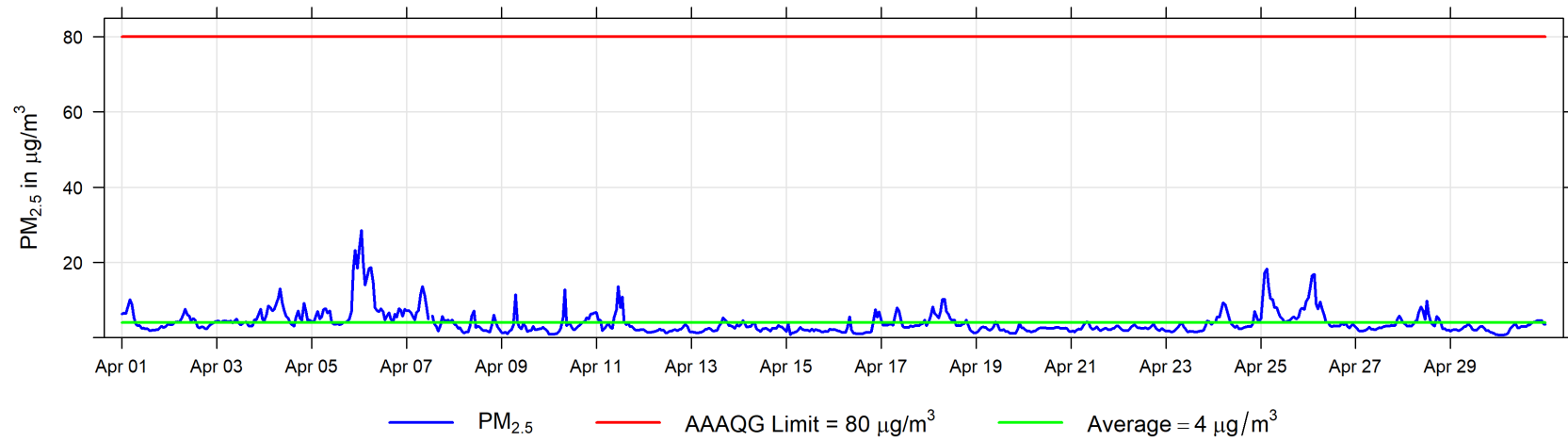
April 2025 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



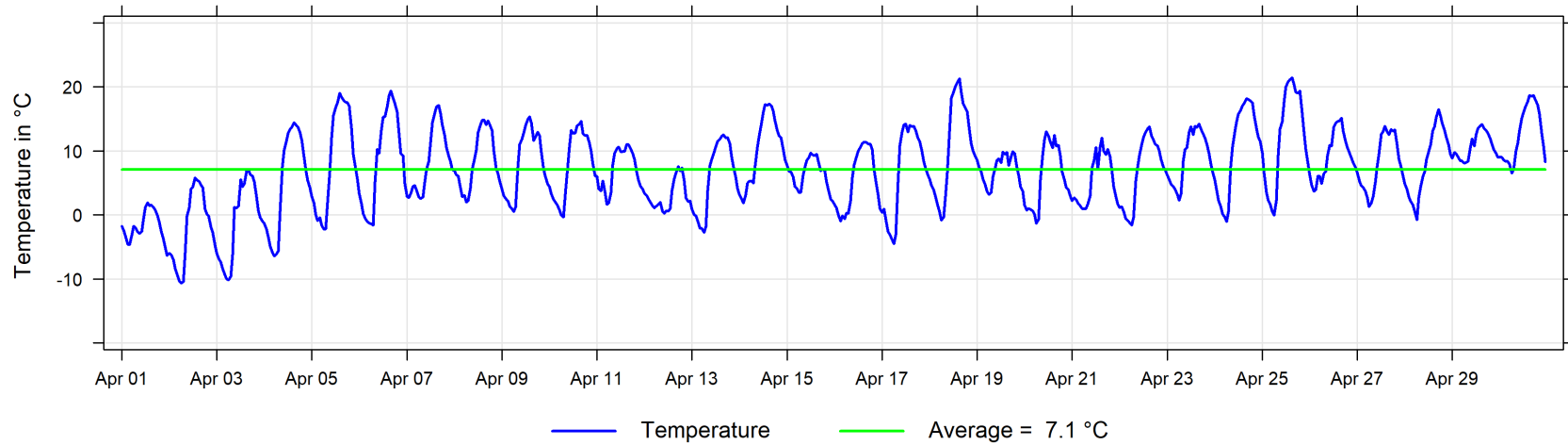
April 2025 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



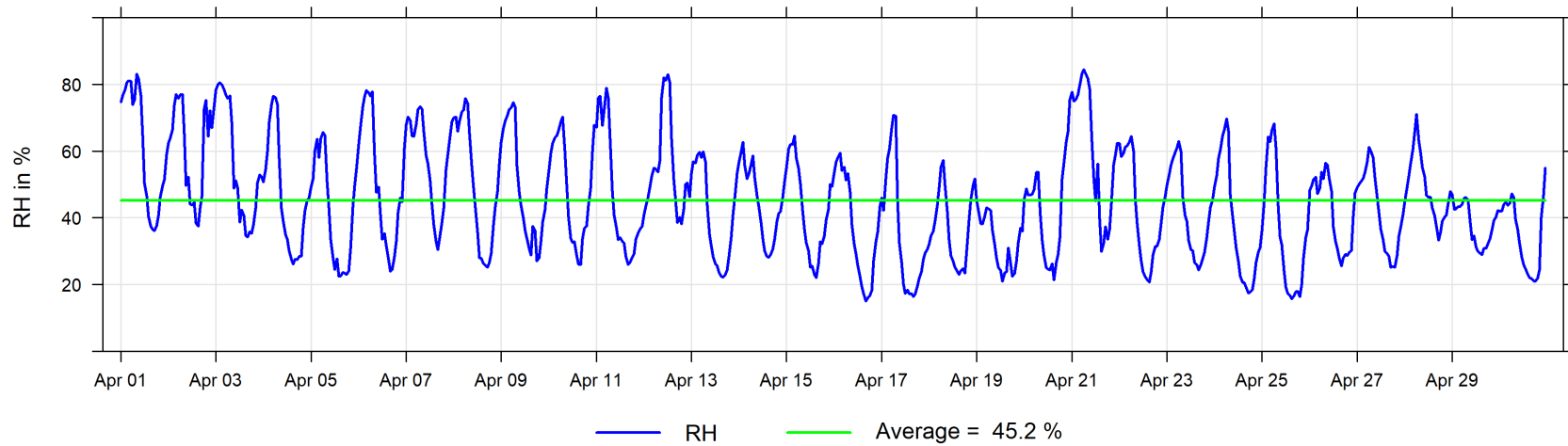
April 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



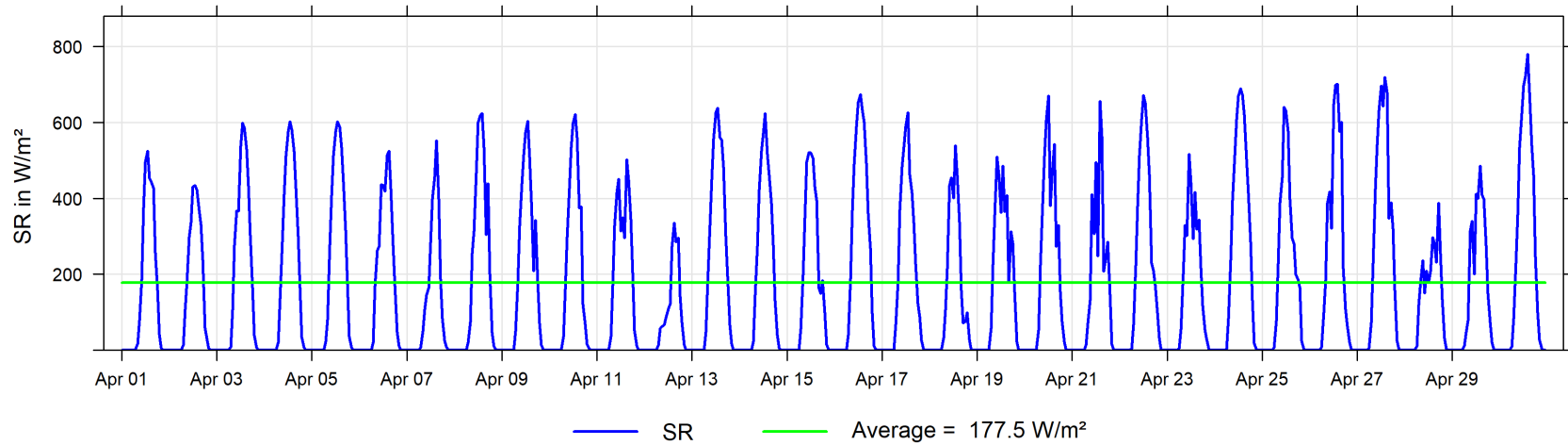
April 2025 Hourly Temperature Readings (in °C) at Henry Pirker



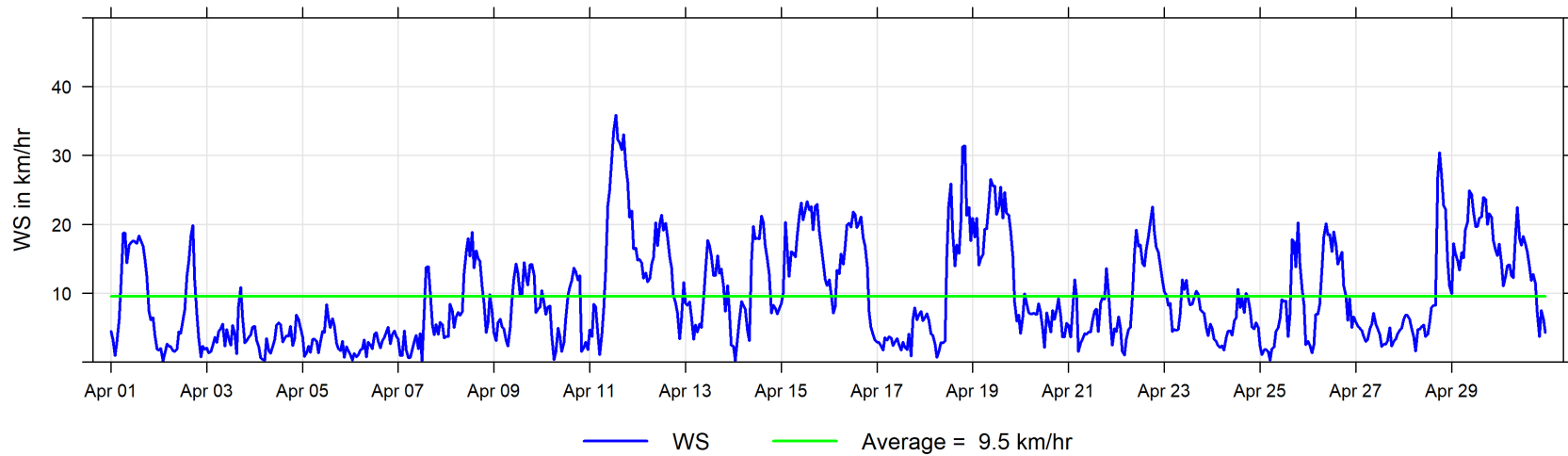
April 2025 Hourly Readings of Relative Humidity (in %) at Henry Pirker



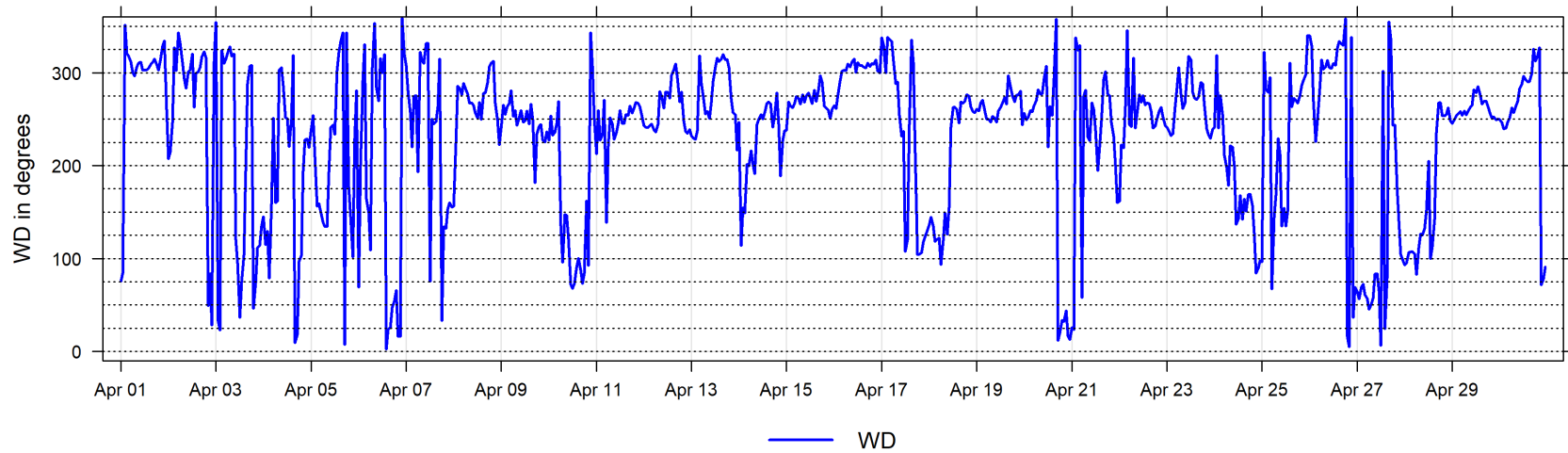
April 2025 Hourly Readings of Solar Radiation (in W/m^2) at Henry Pirker



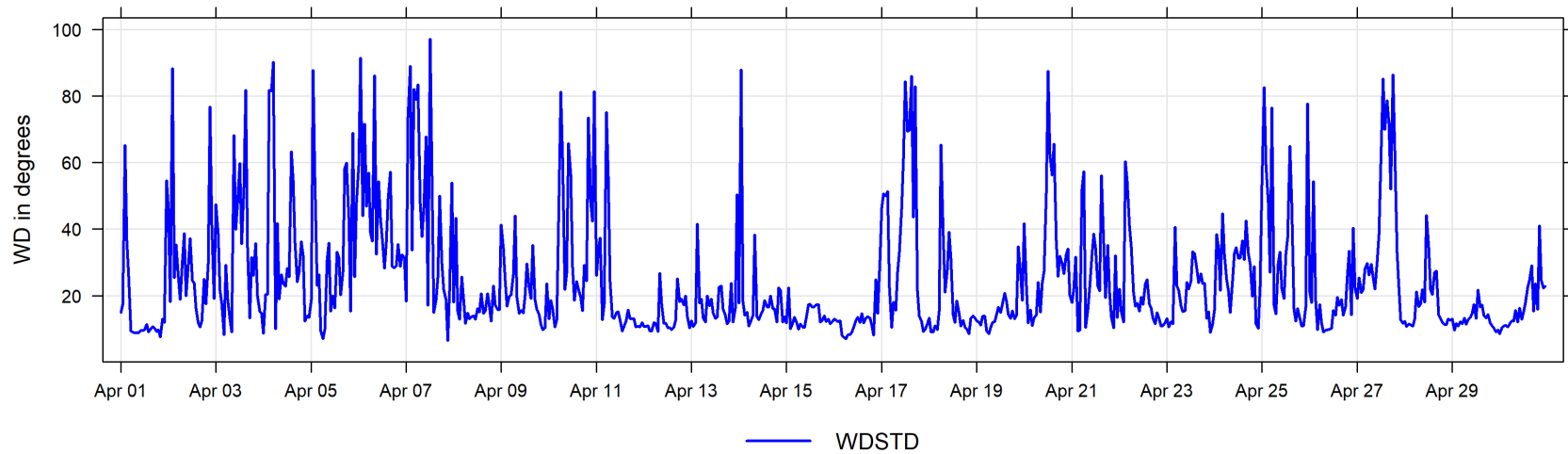
April 2025 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker



April 2025 Hourly Readings of Wind Direction (in degrees) at Henry Pirker

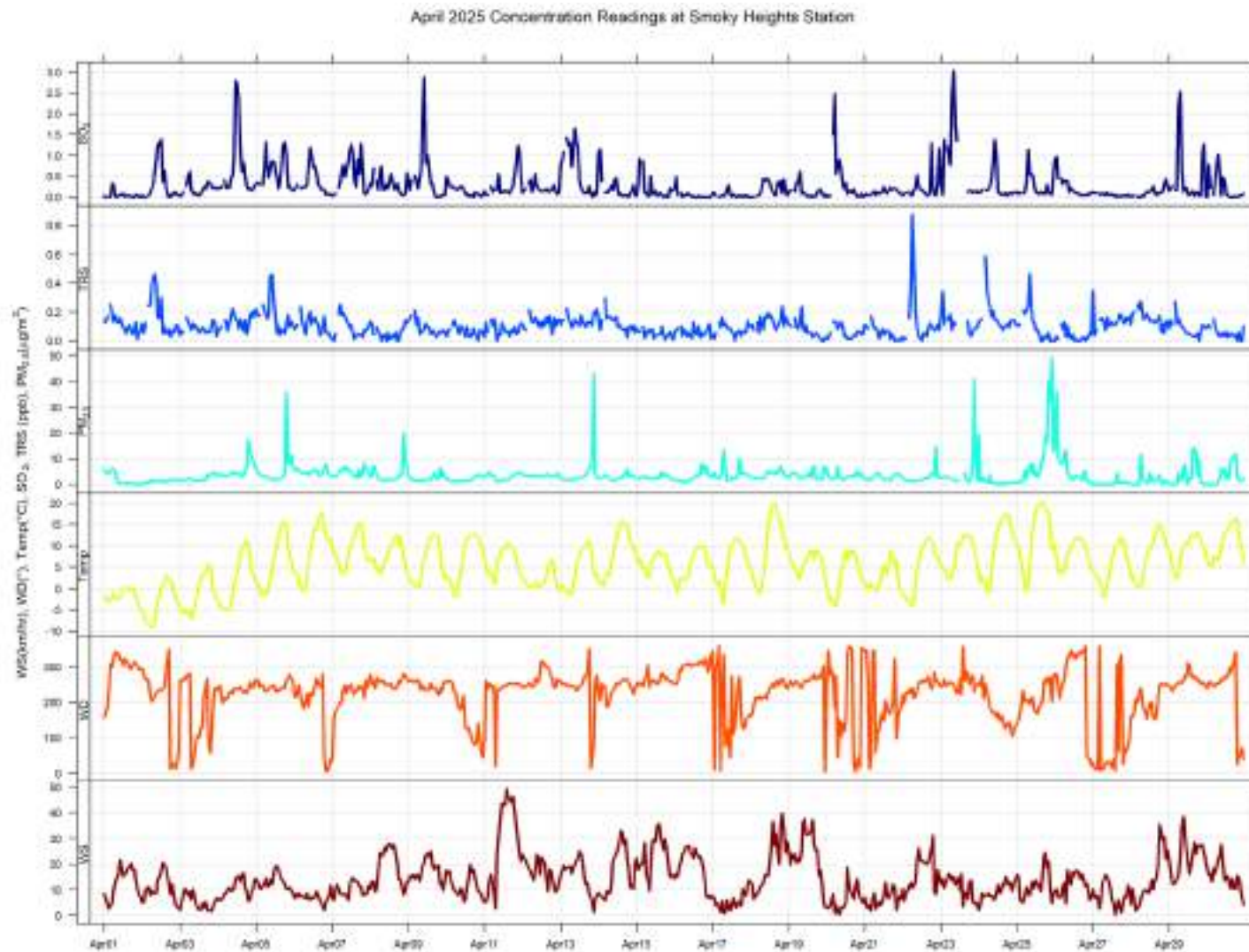


April 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Henry Pirker

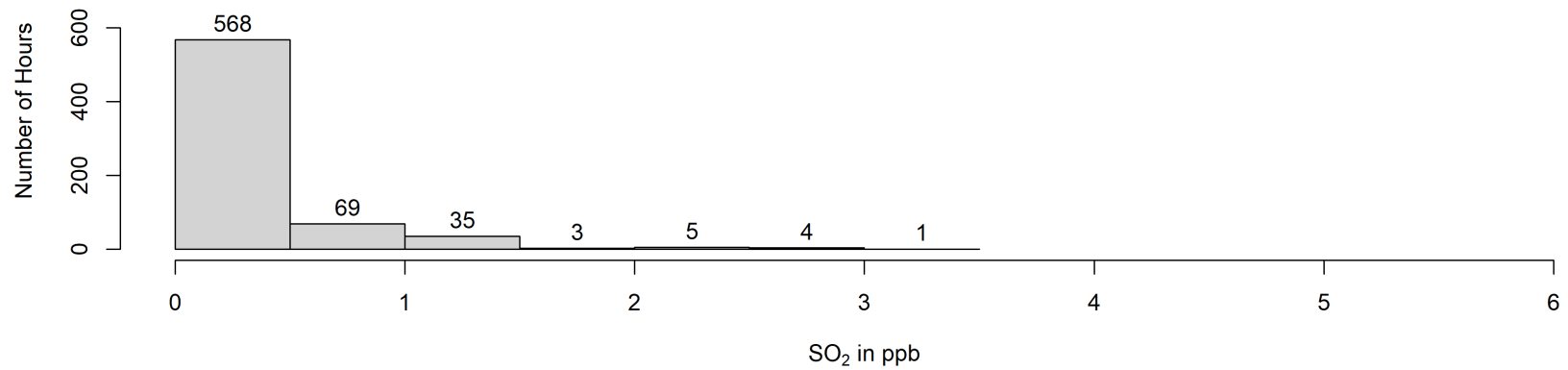
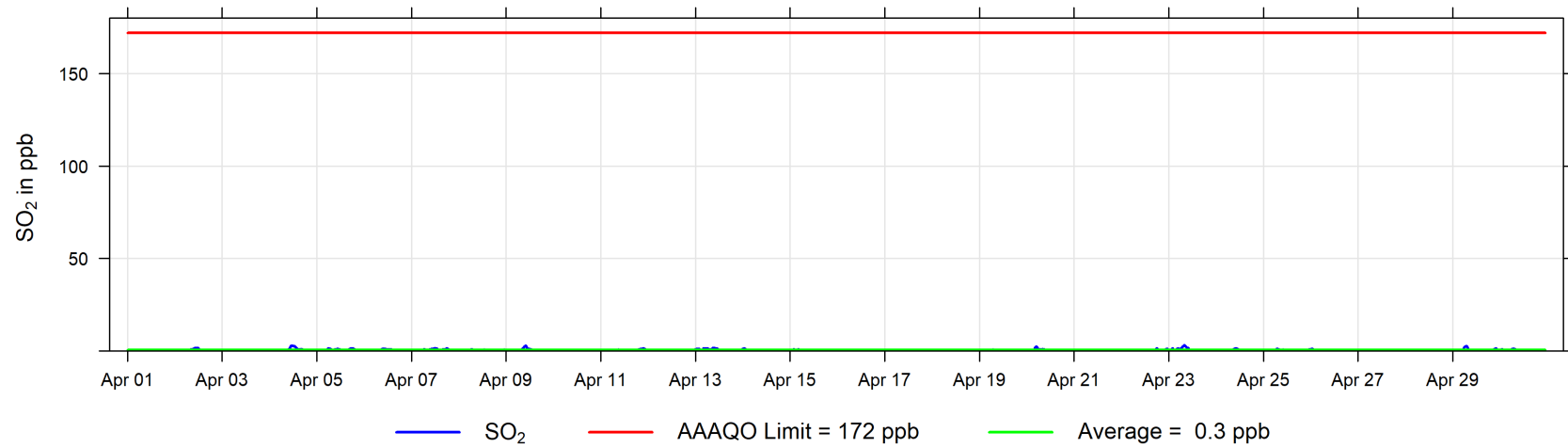


5 Smoky Heights Charts

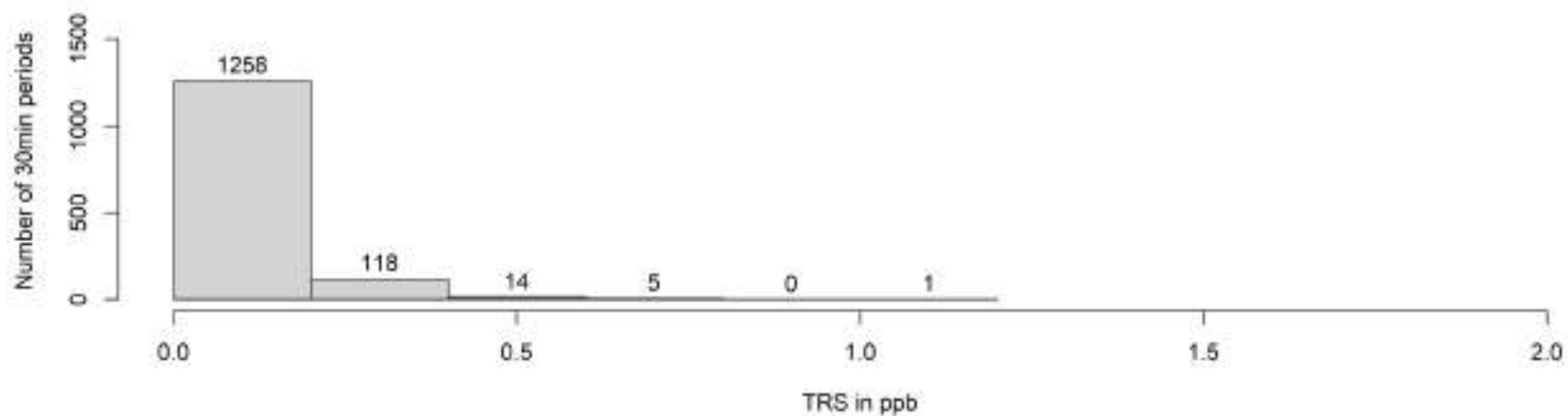
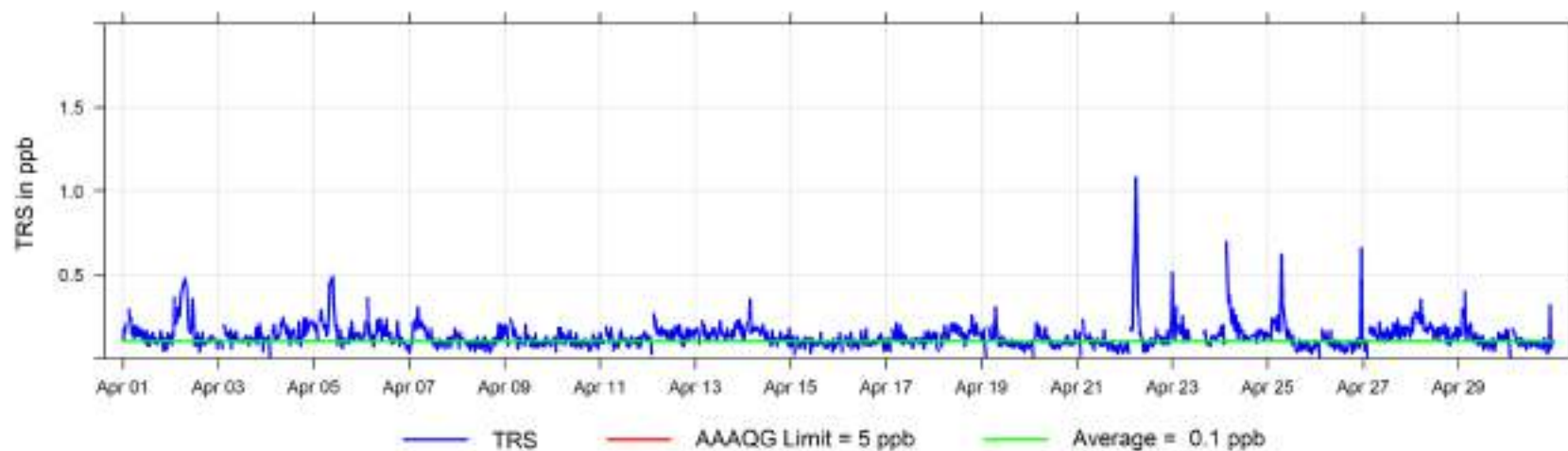
The following pages include the charts and histograms for Smoky Heights Station



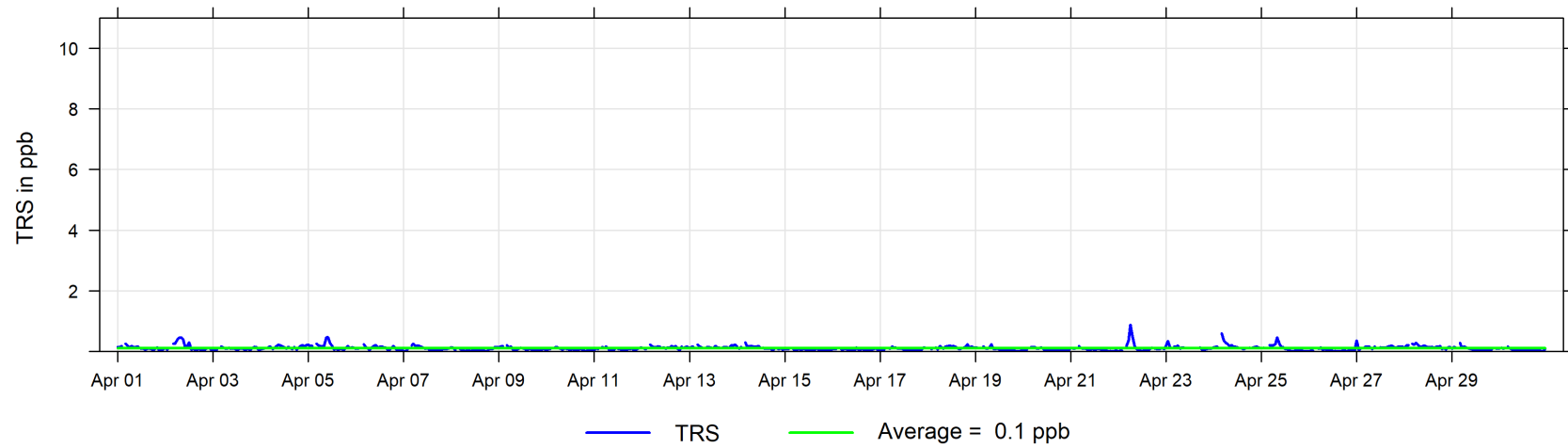
April 2025 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights



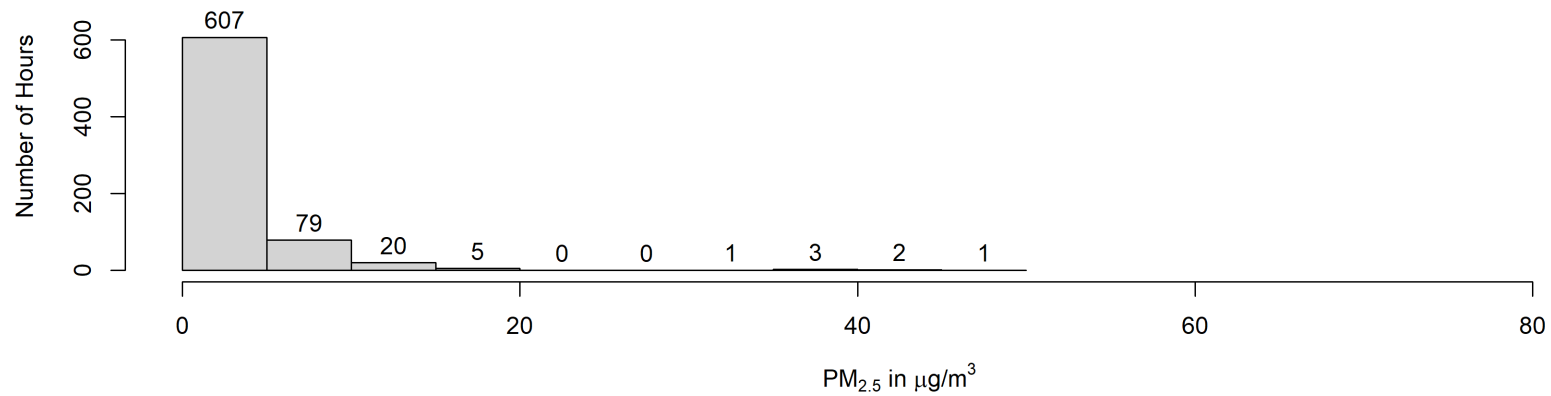
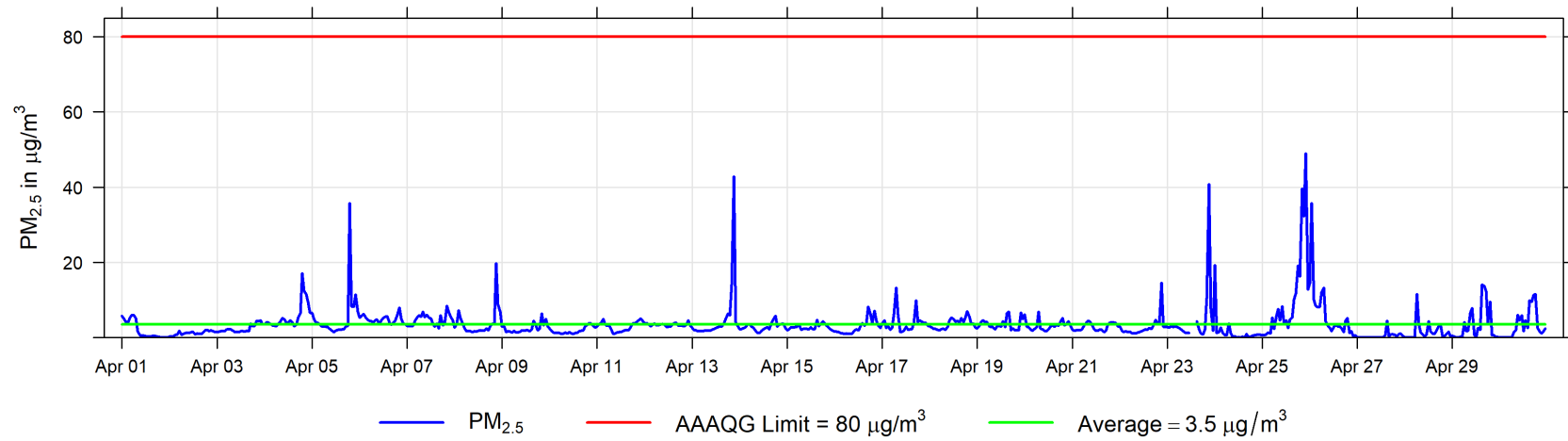
April 2025 30 min Concentration Readings of TRS (in ppb) at Smoky Heights



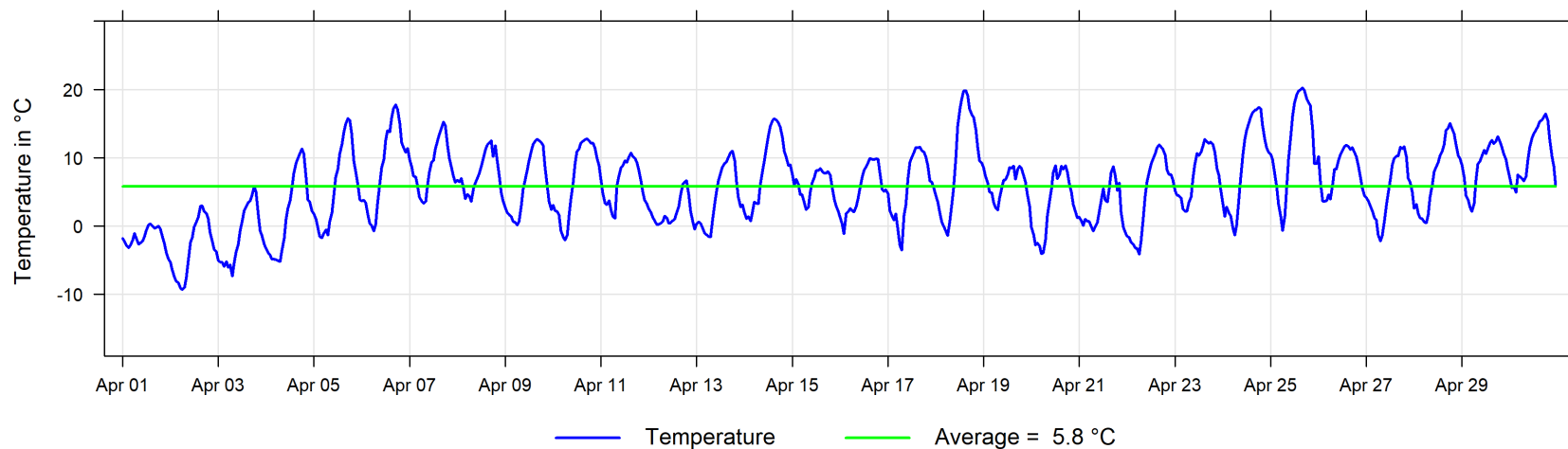
April 2025 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights



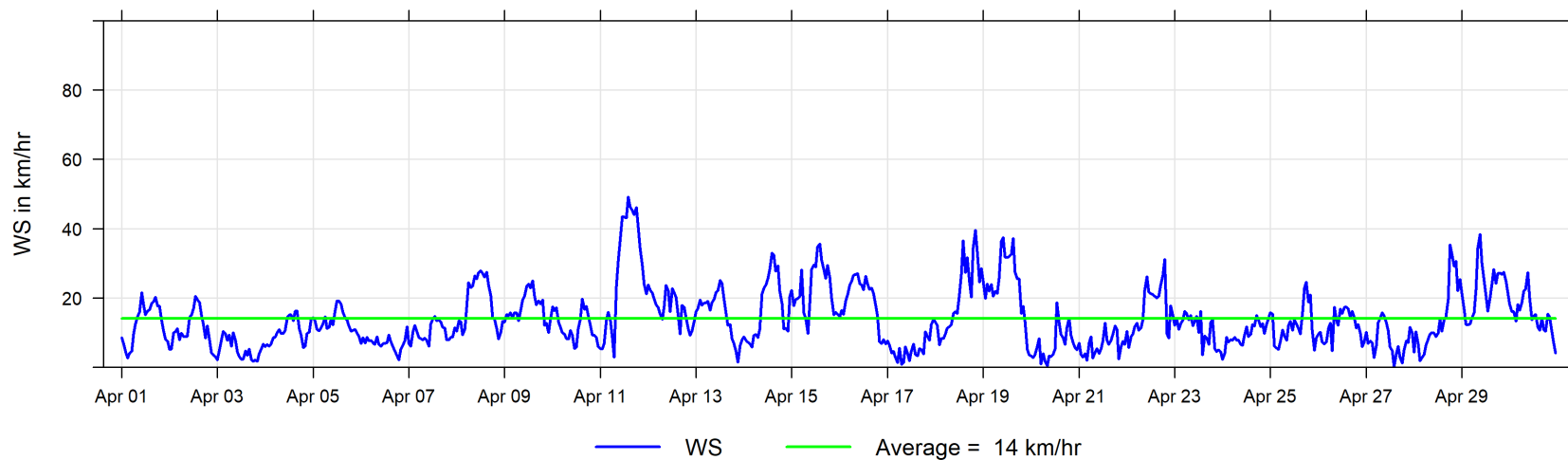
April 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights



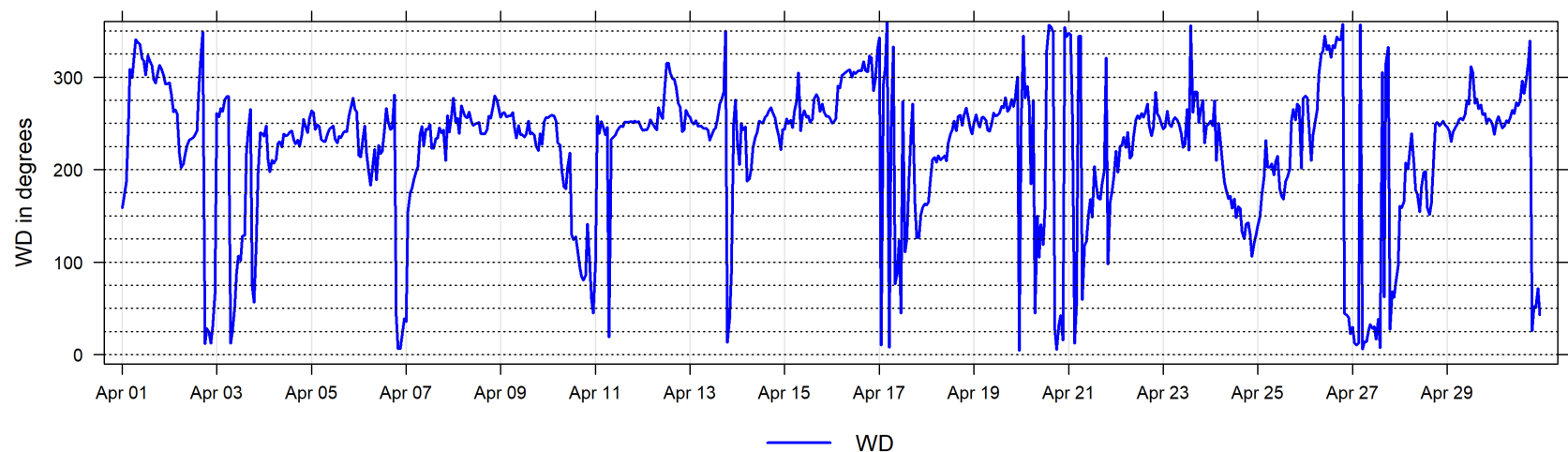
April 2025 Hourly Temperature Readings (in °C) at Smoky Heights



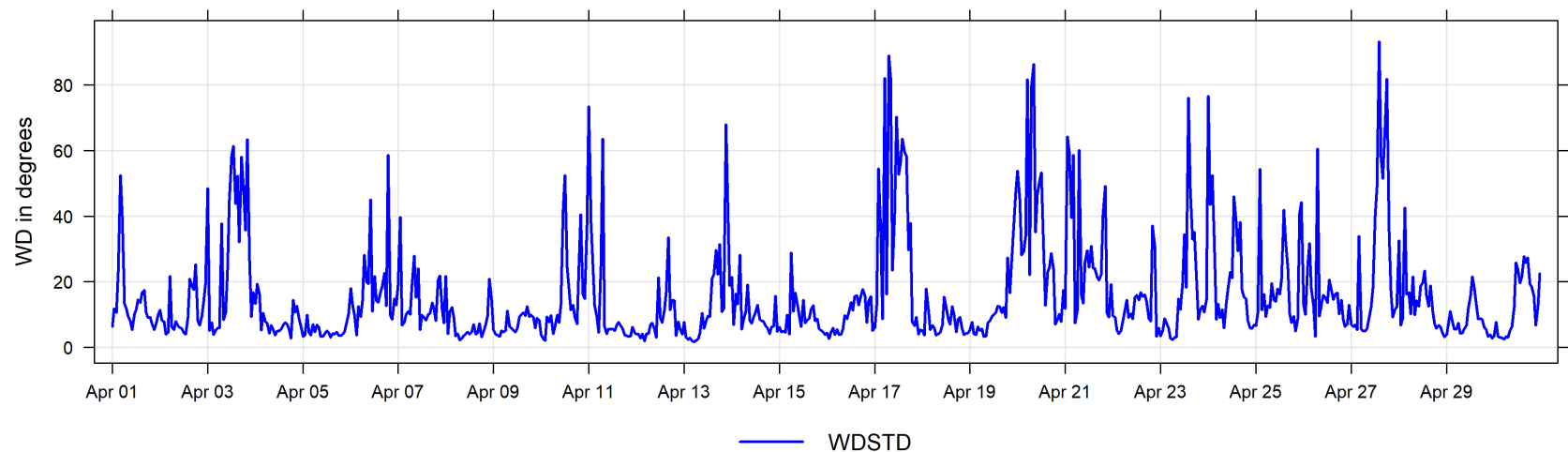
April 2025 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

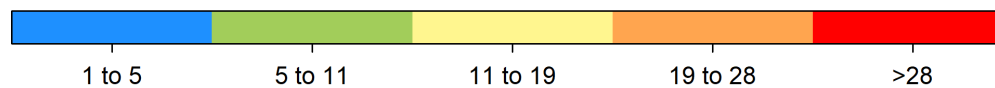
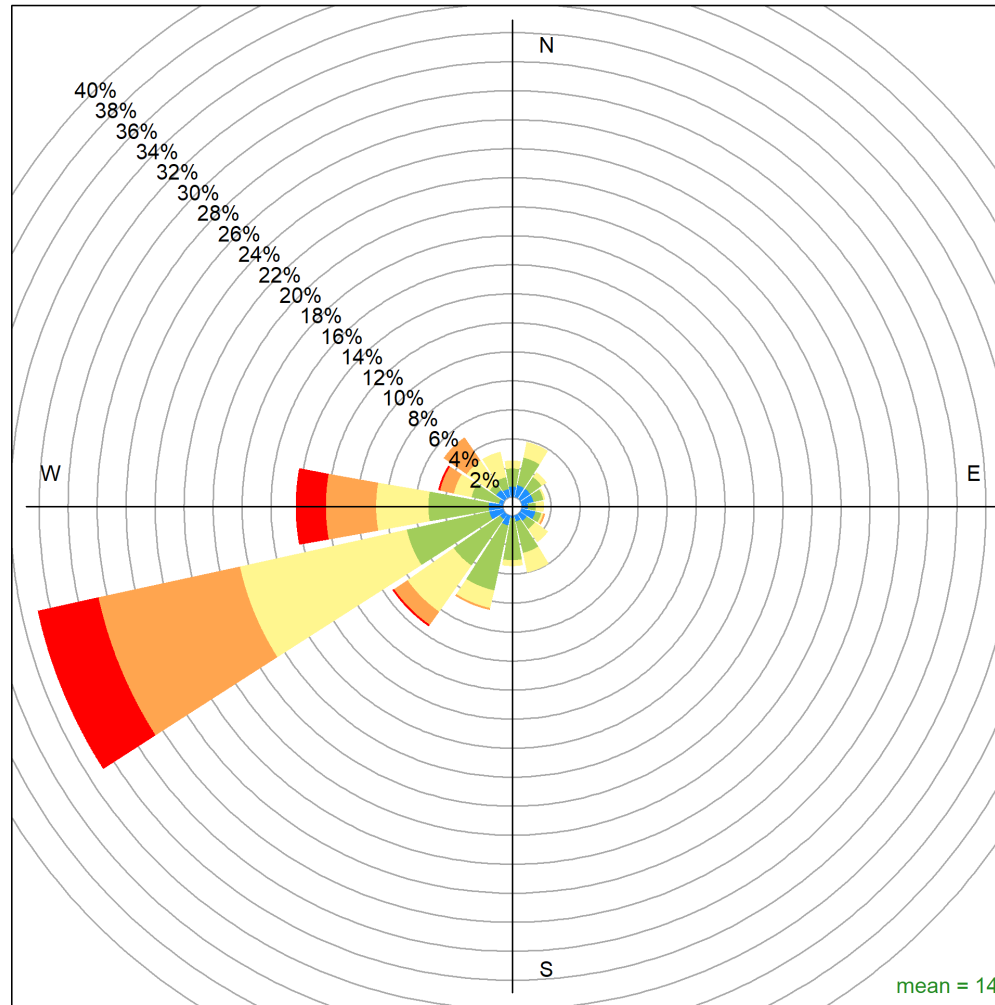


April 2025 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



April 2025 Hourly Readings of Wind Direction Standard Deviation (WDSTD) (in degrees) at Smoky Heights



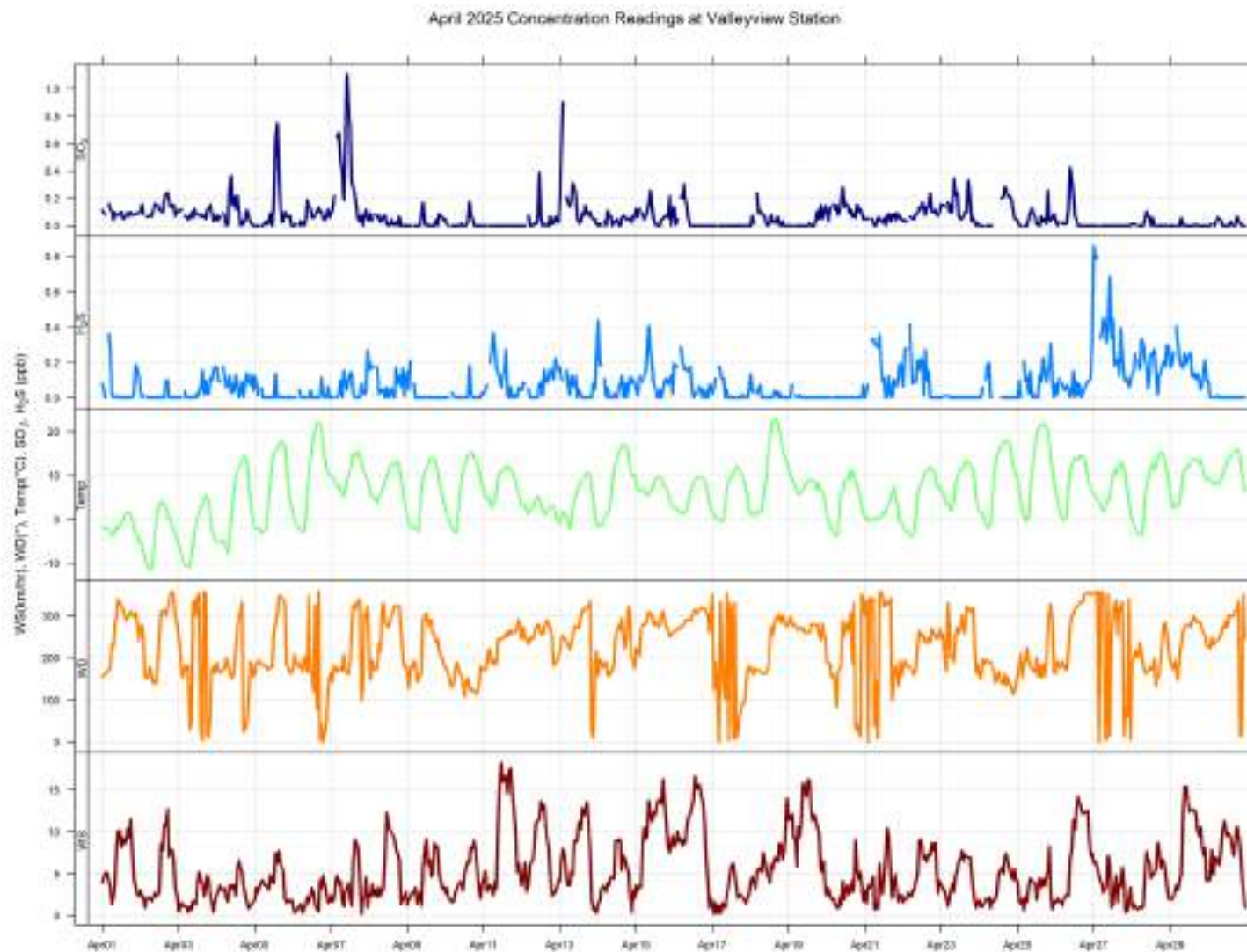


Smoky Heights April 2025 Wind Rose, wind speed in km/hr

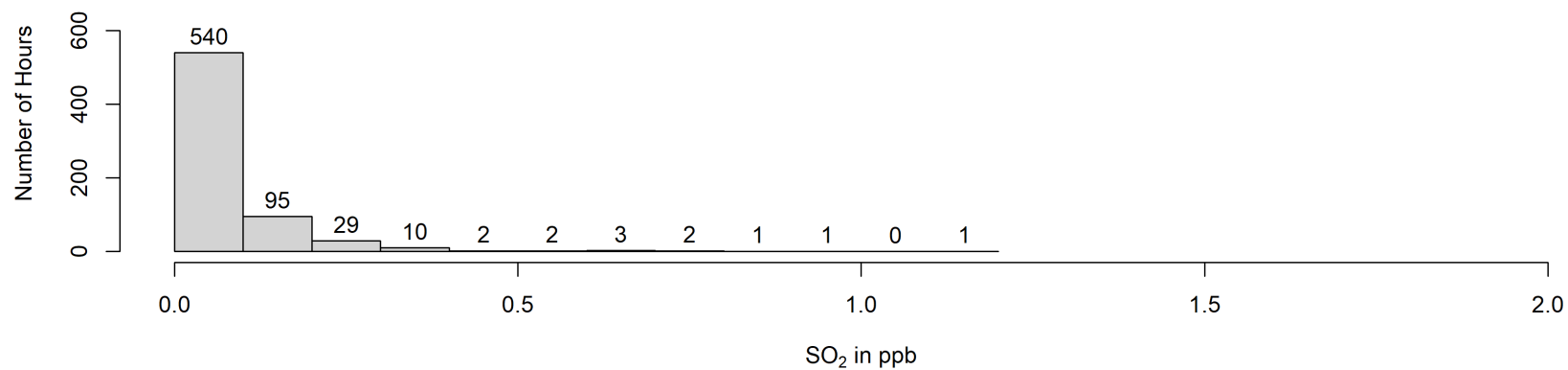
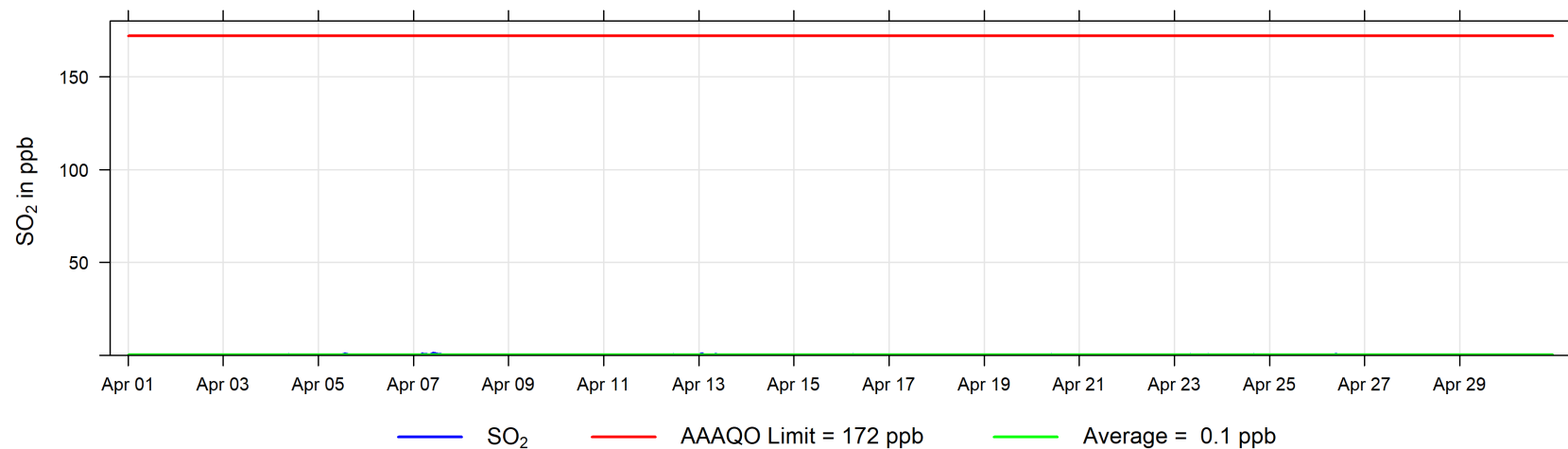
Calms (<1km/hr) = 0.6 %

6 Valleyview Charts

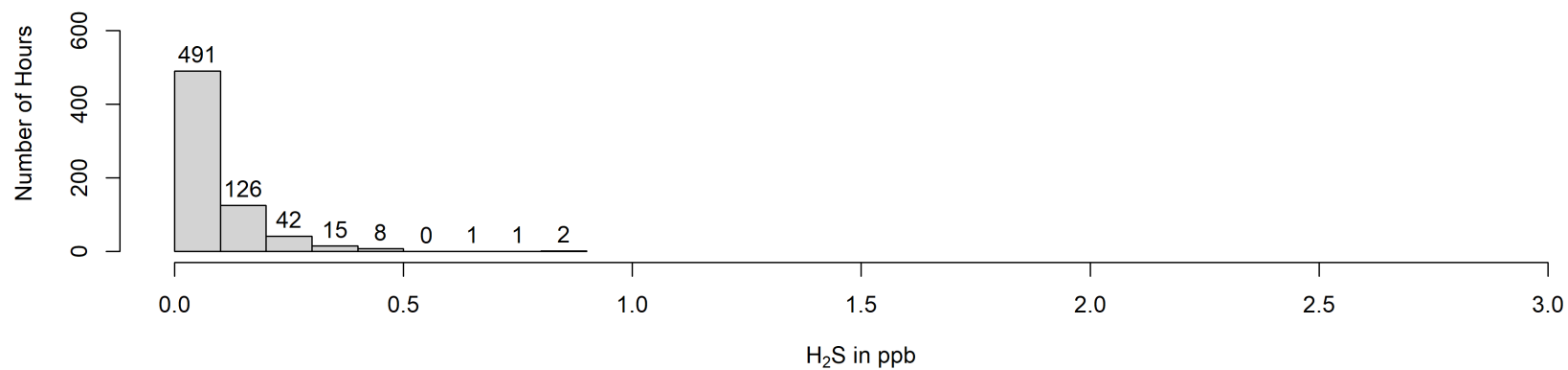
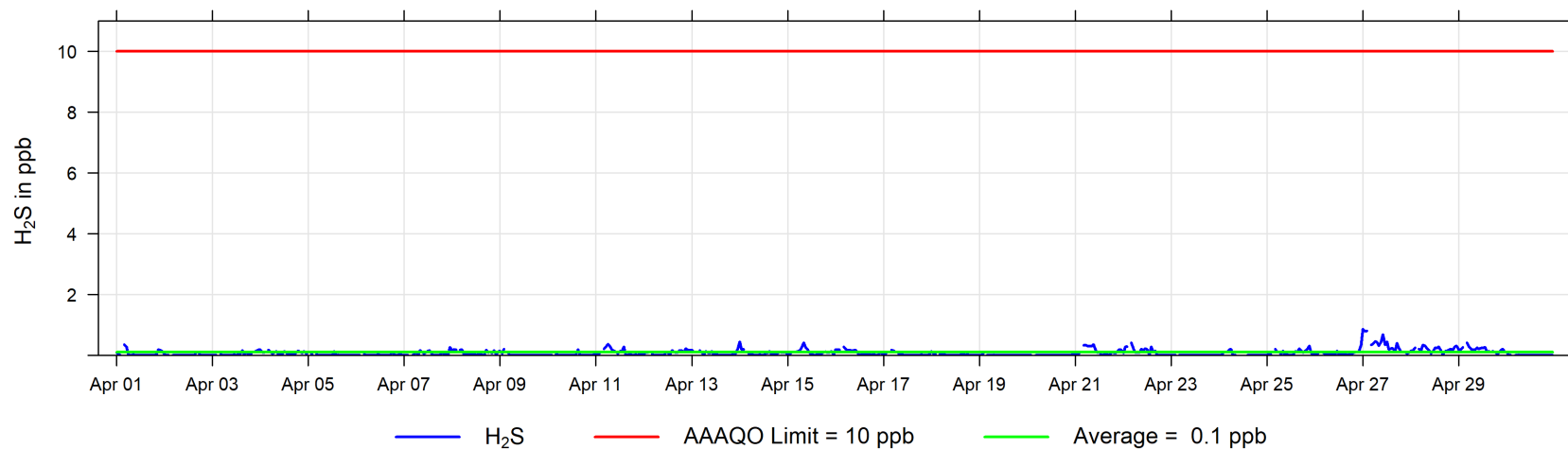
The following pages include the charts and histograms for Valleyview Station



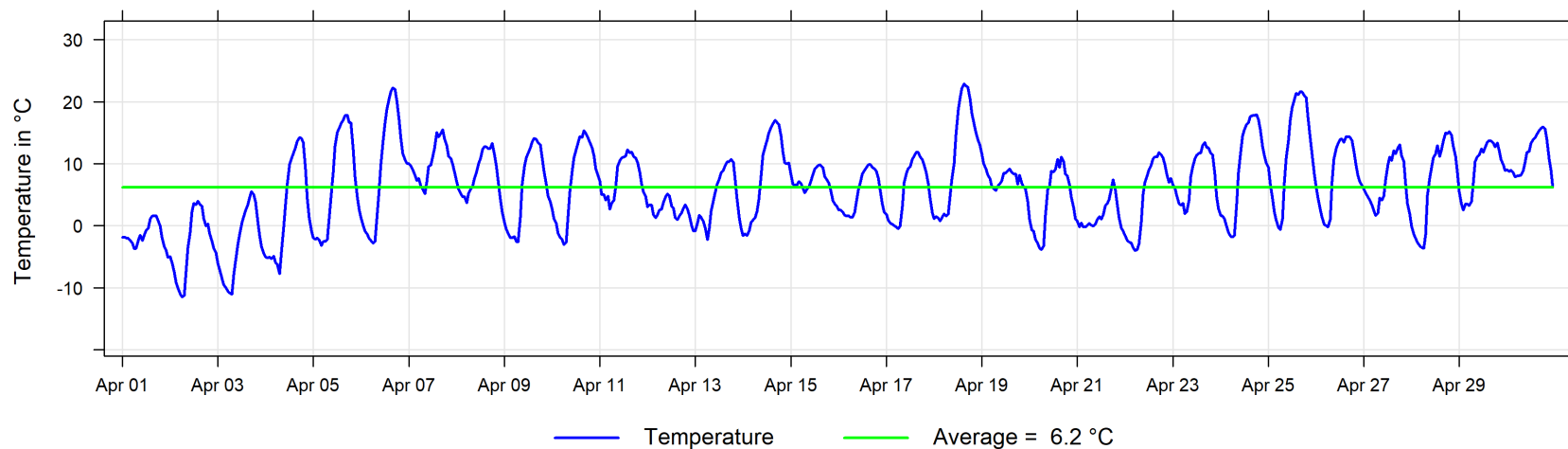
April 2025 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



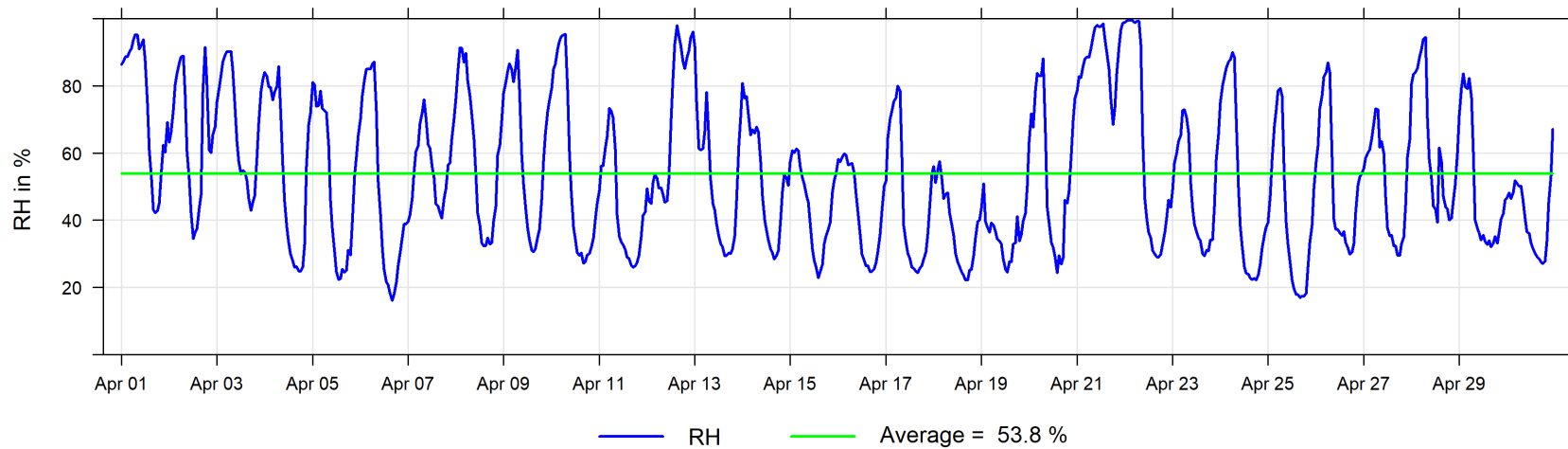
April 2025 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



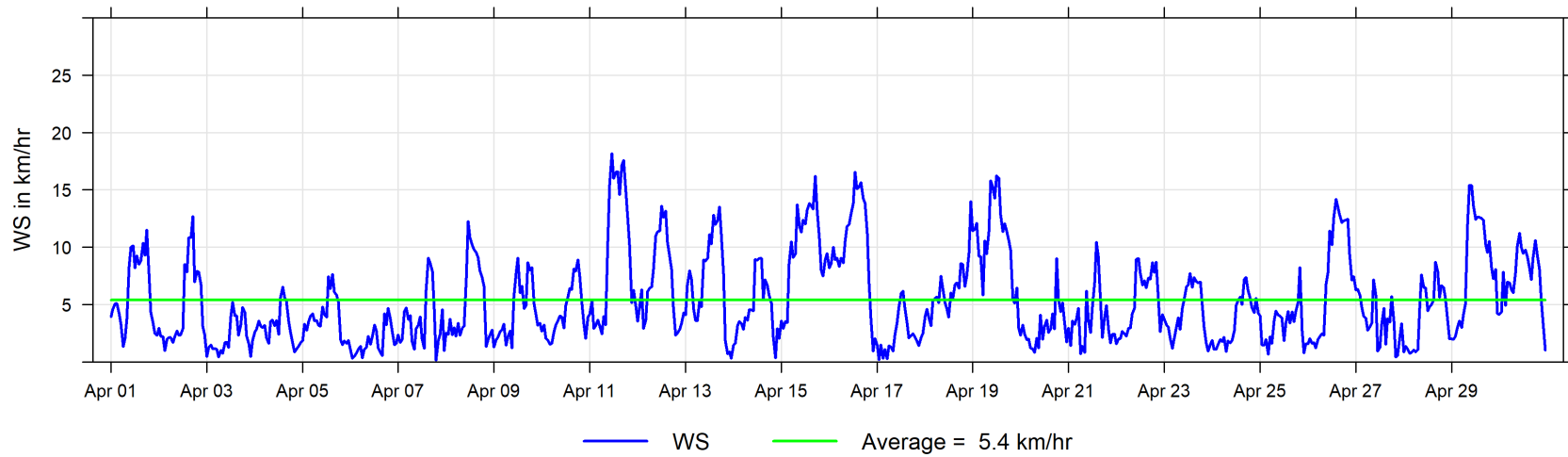
April 2025 Hourly Temperature Readings (in °C) at Valleyview



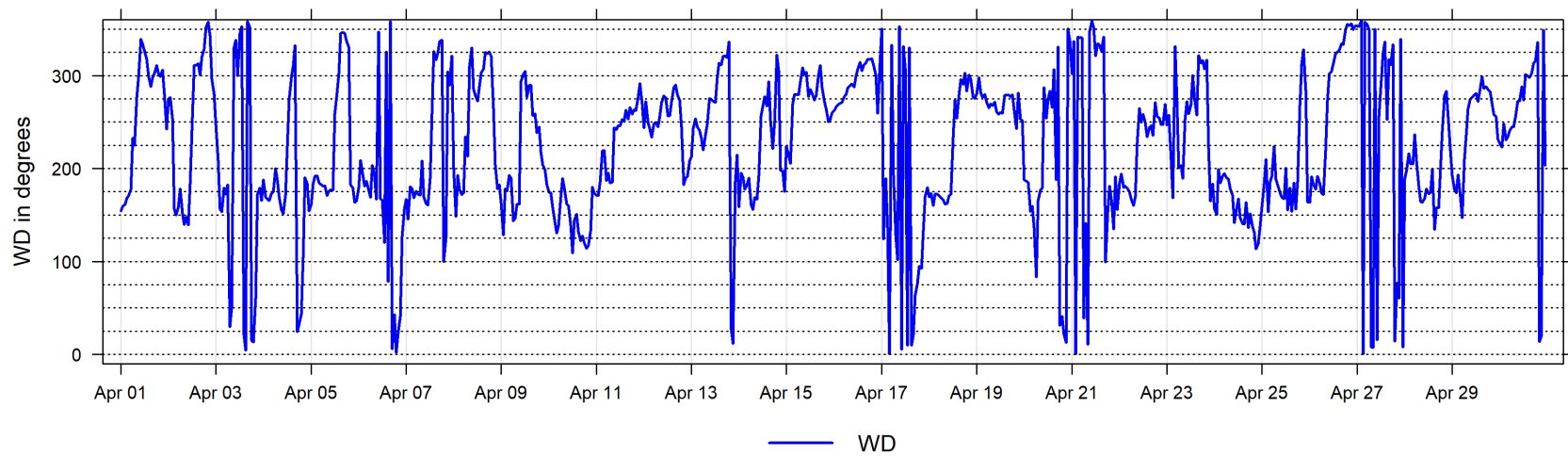
April 2025 Hourly Readings of Relative Humidity (in %) at Valleyview



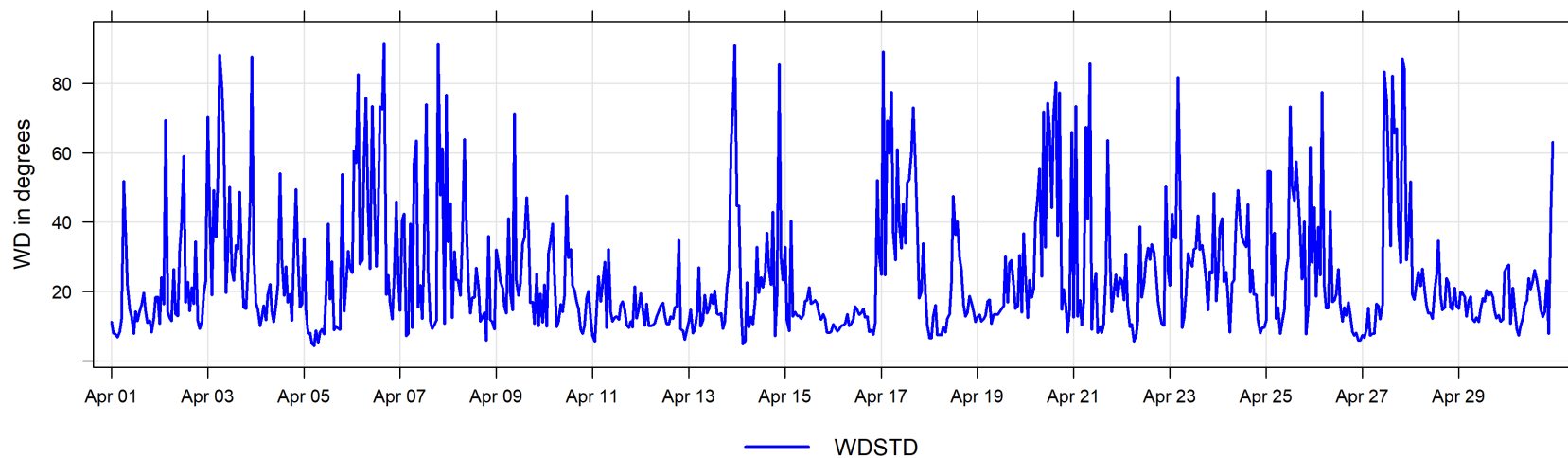
April 2025 Hourly Readings of Wind Speed (in km/hr) at Valleyview

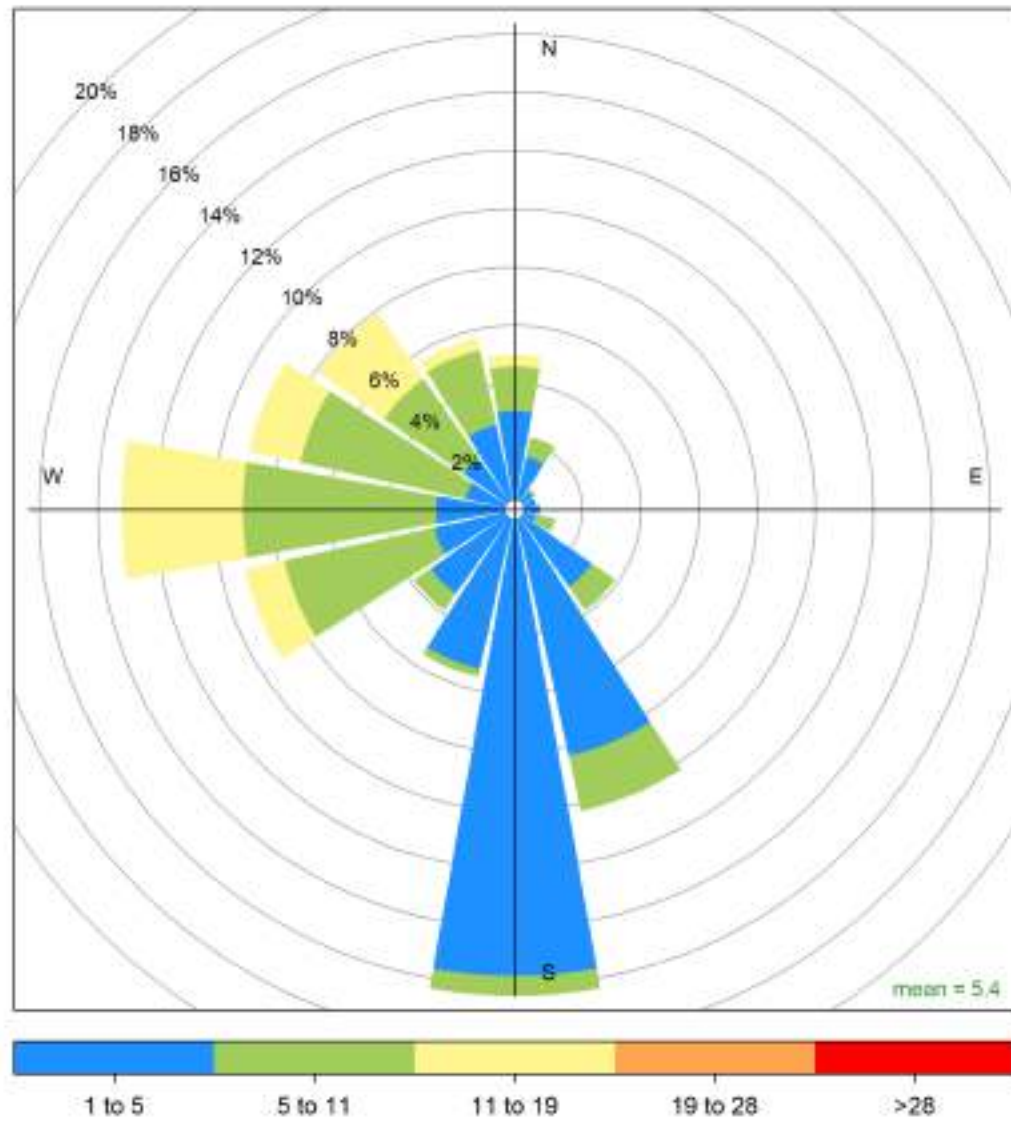


April 2025 Hourly Readings of Wind Direction (in degrees) at Valleyview



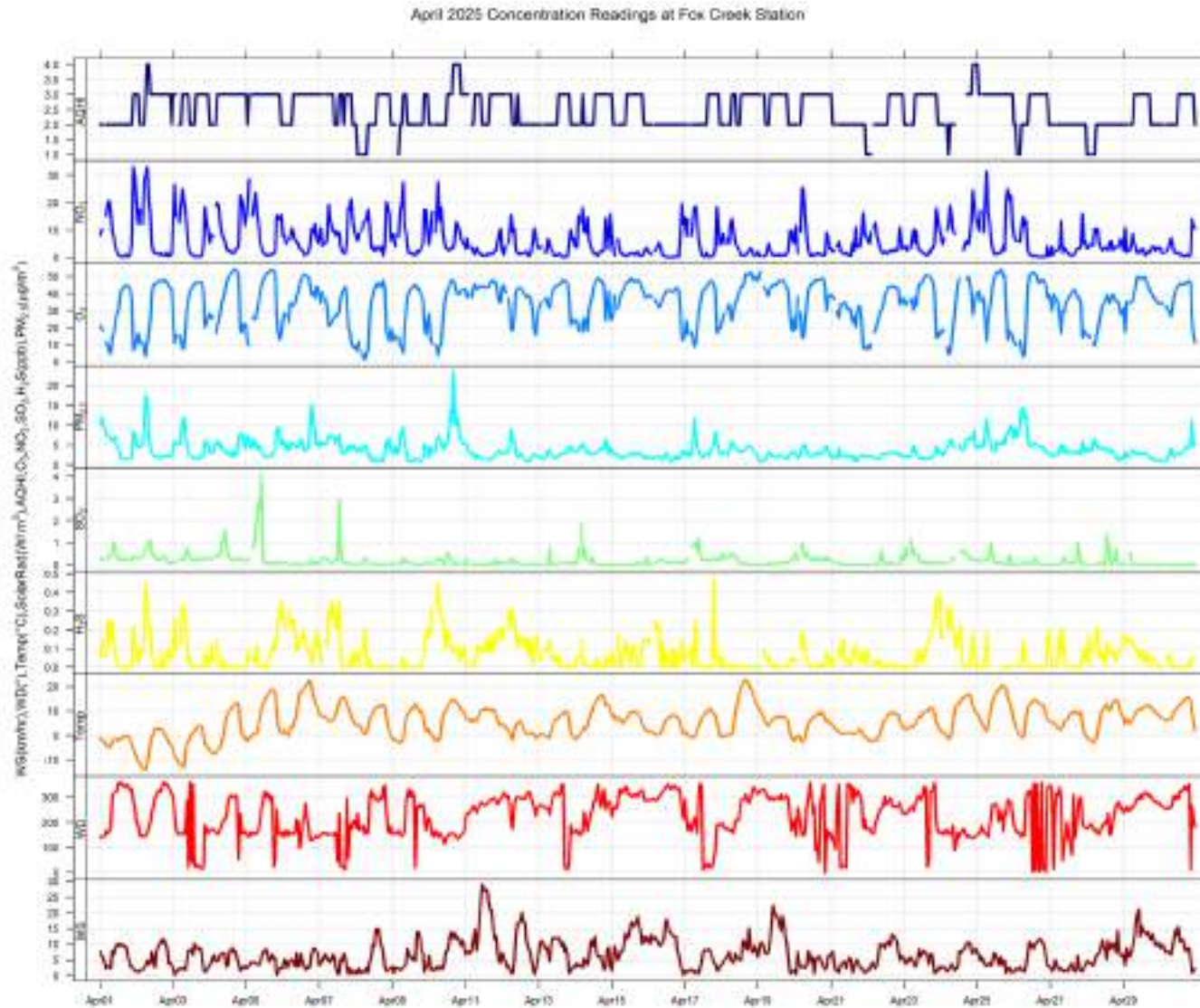
April 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Valleyview



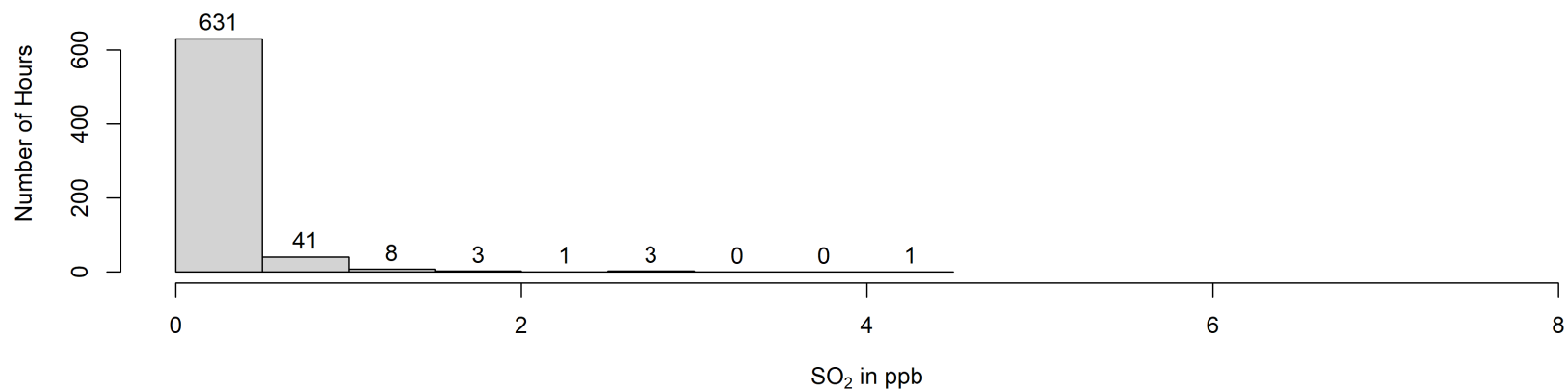
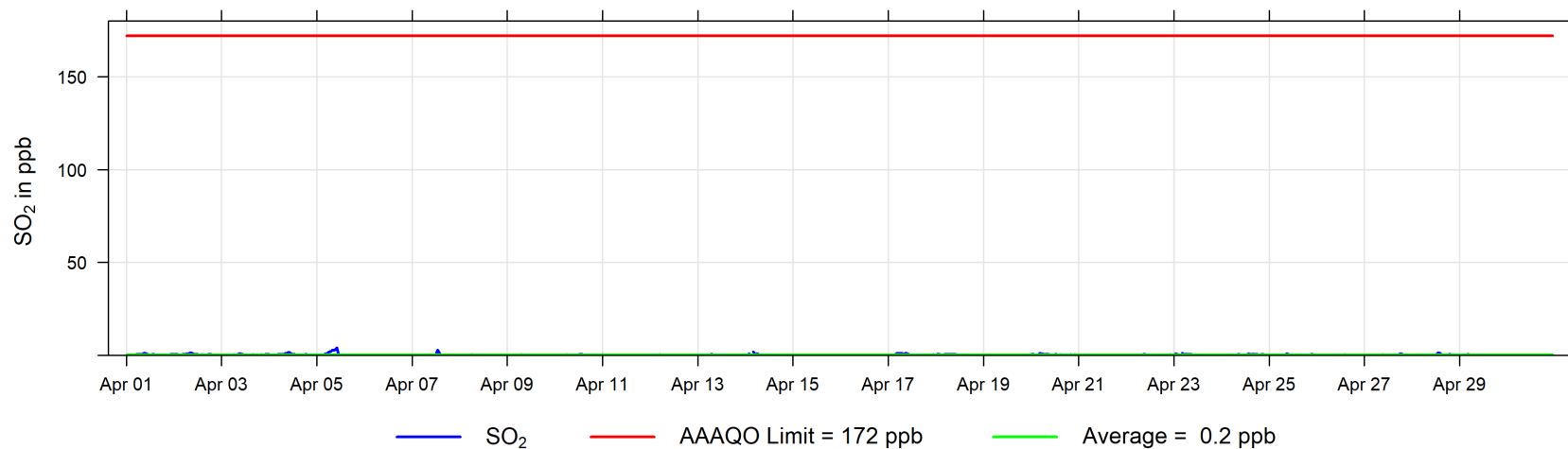


7 Fox Creek Charts

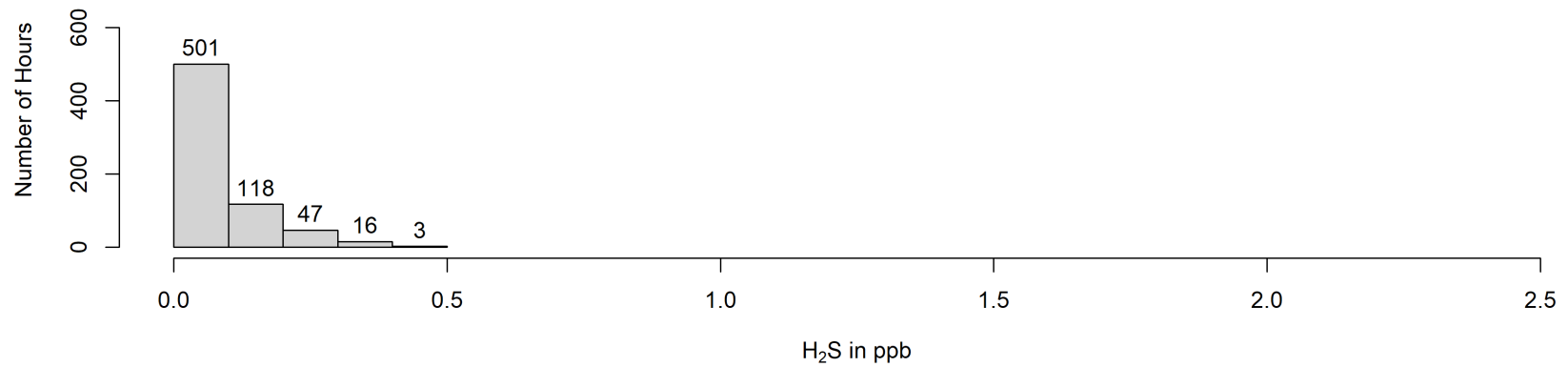
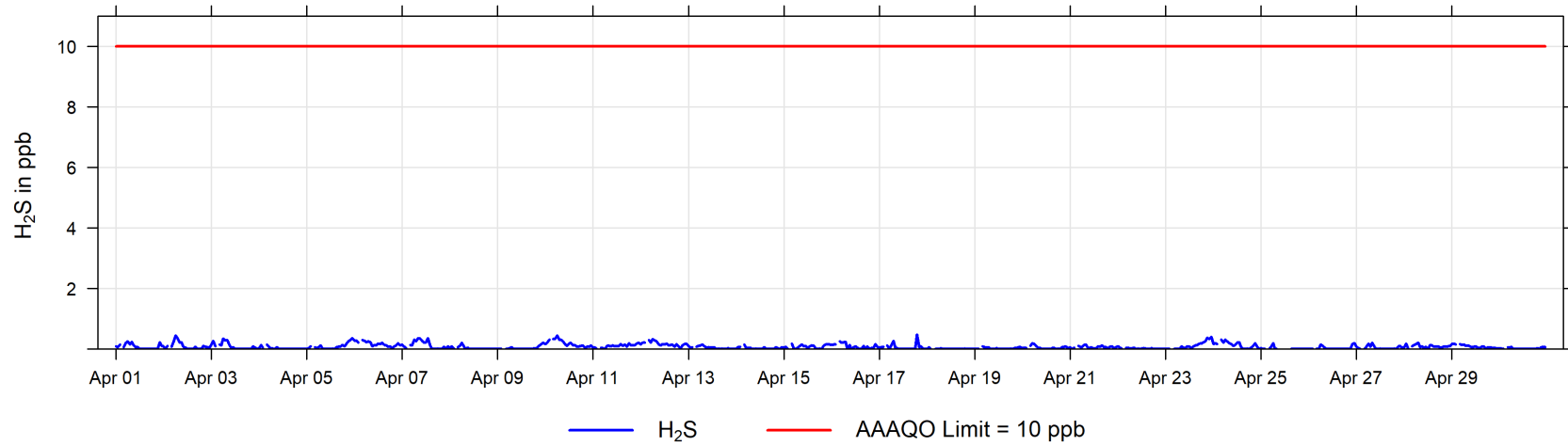
The following pages include the charts and histograms for Fox Creek Station



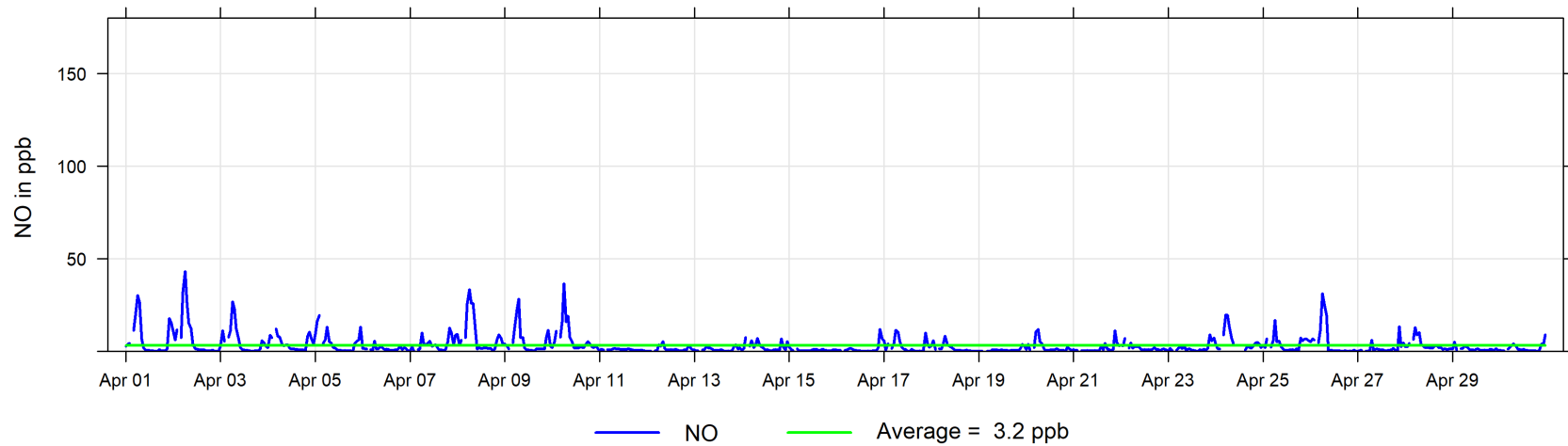
April 2025 Hourly Concentration Readings of SO₂ (in ppb) at Fox Creek



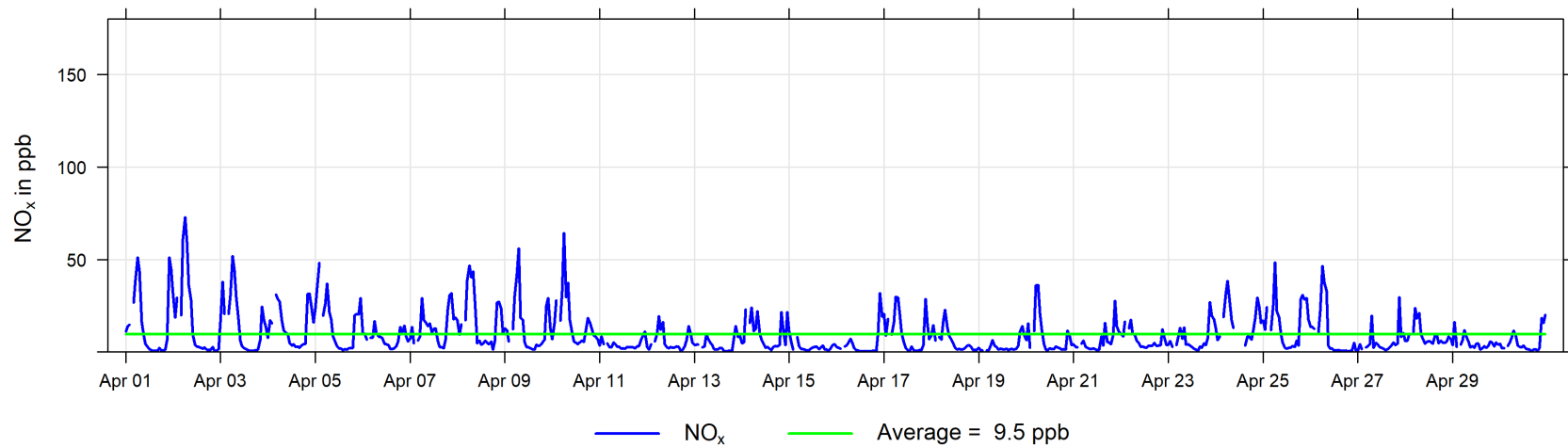
April 2025 Hourly Concentration Readings of H₂S (in ppb) at Fox Creek



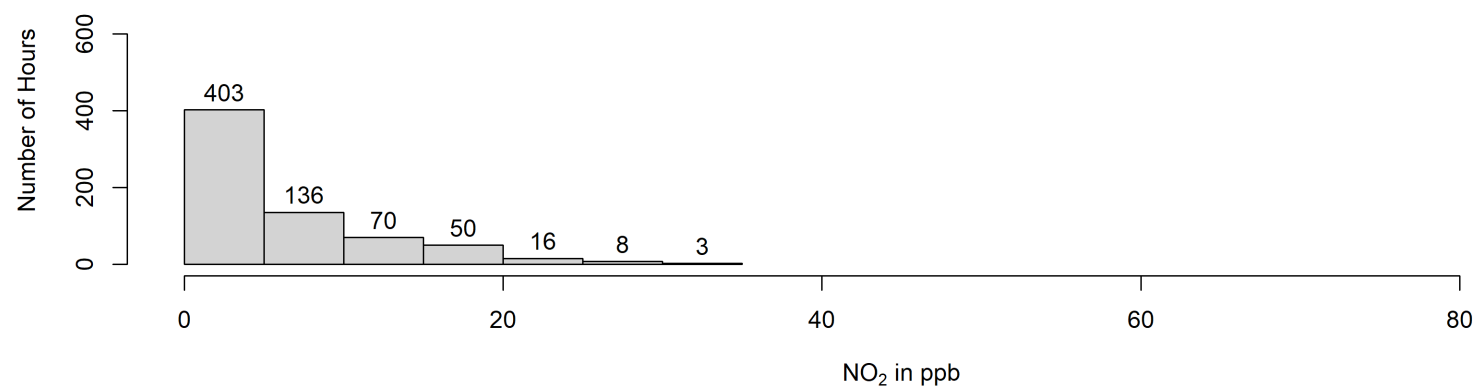
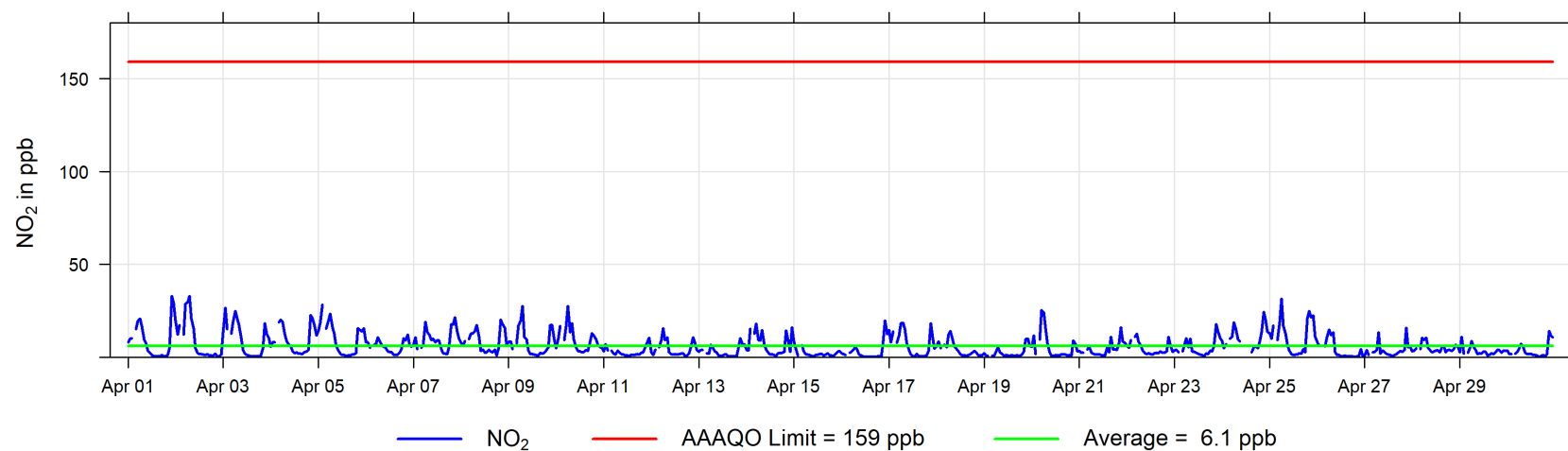
April 2025 Hourly Concentration Readings of NO (in ppb) at Fox Creek



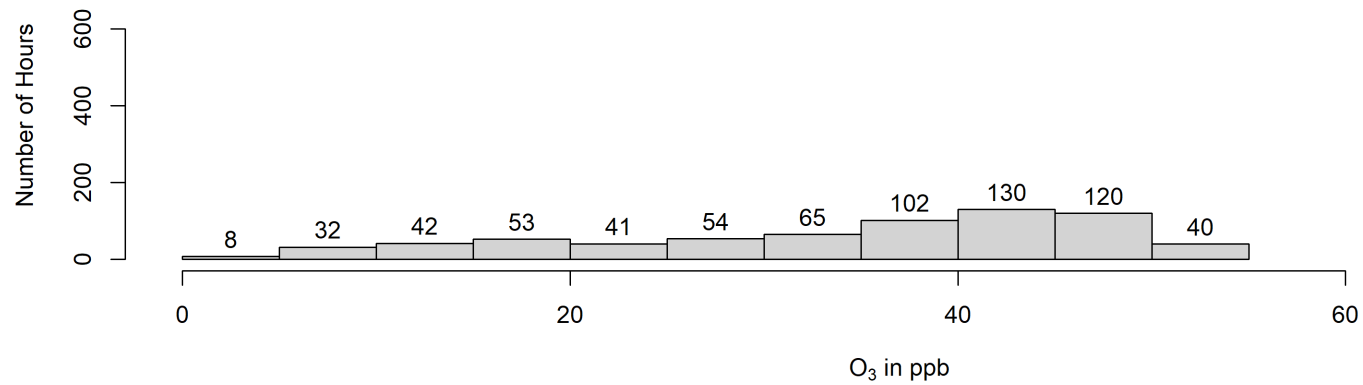
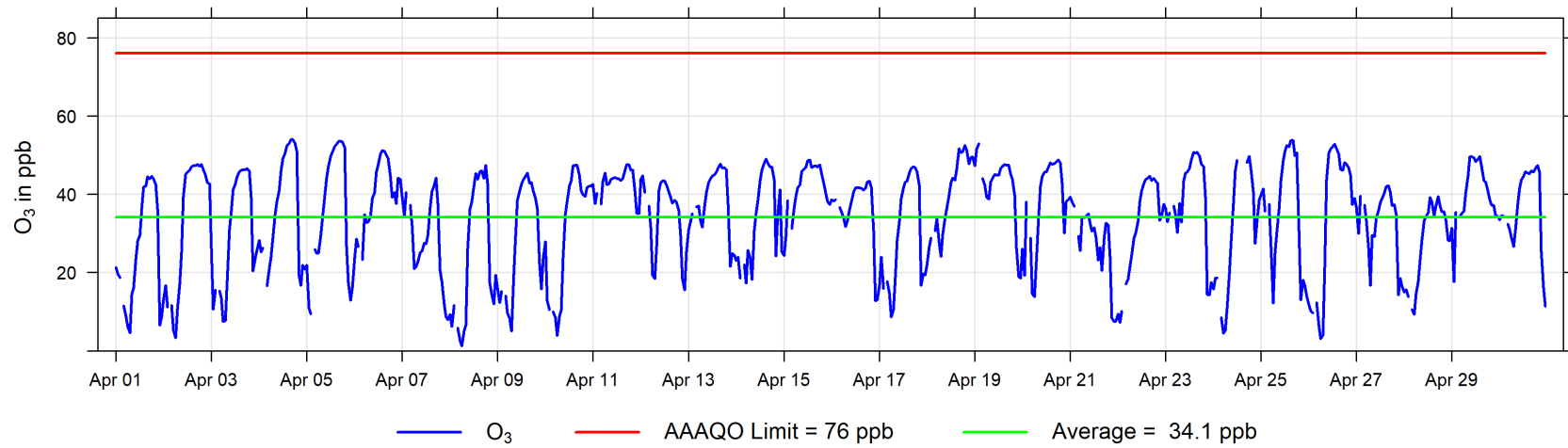
April 2025 Hourly Concentration Readings of NO_x (in ppb) at Fox Creek



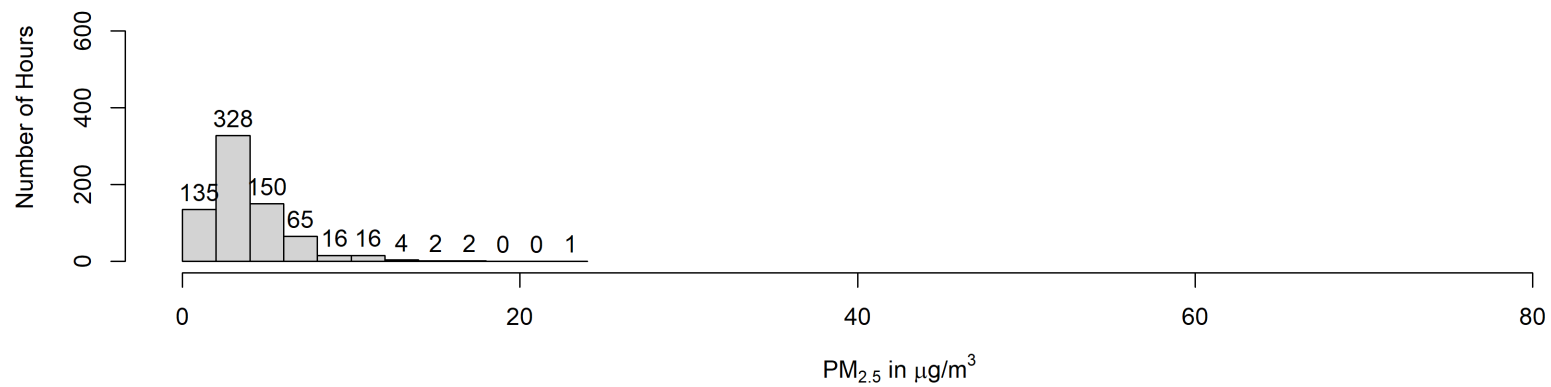
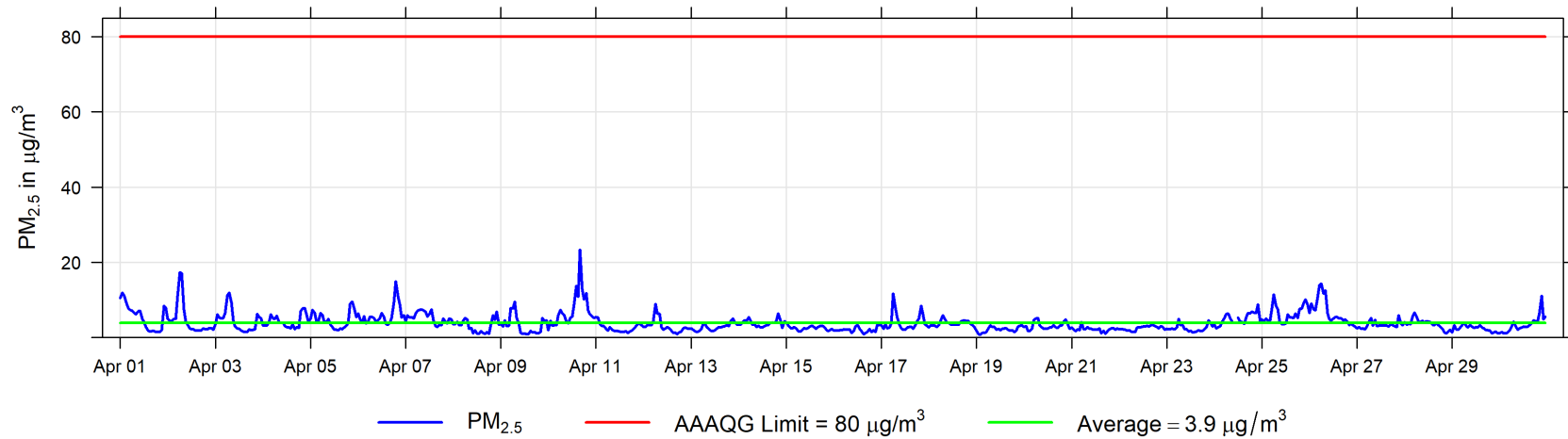
April 2025 Hourly Concentration Readings of NO₂ (in ppb) at Fox Creek



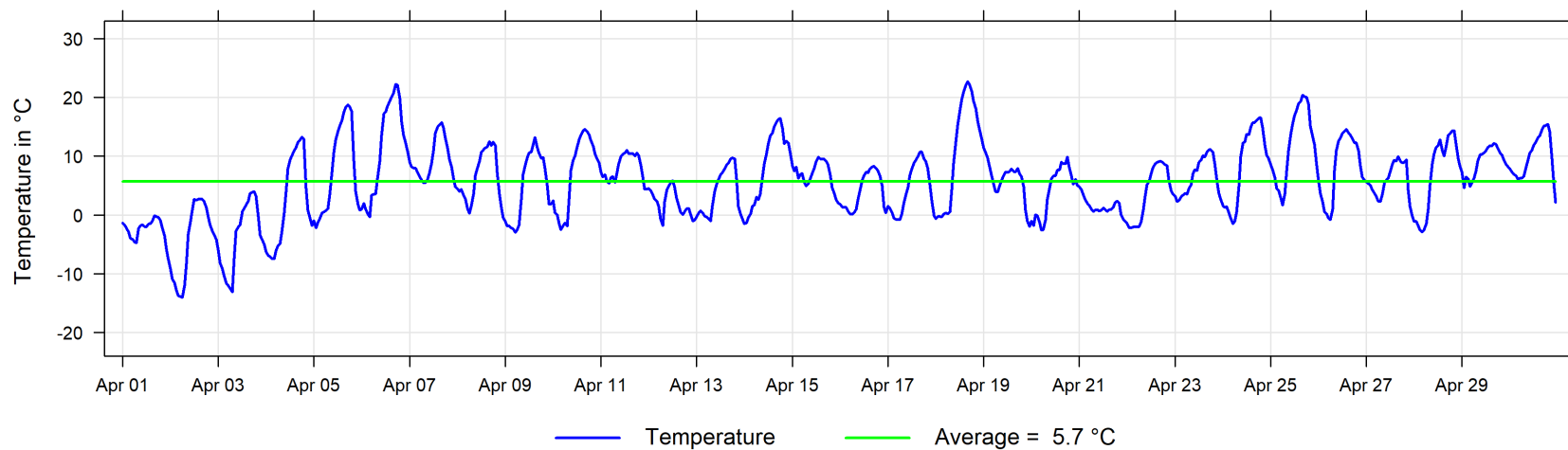
April 2025 Hourly Concentration Readings of O₃ (in ppb) at Fox Creek



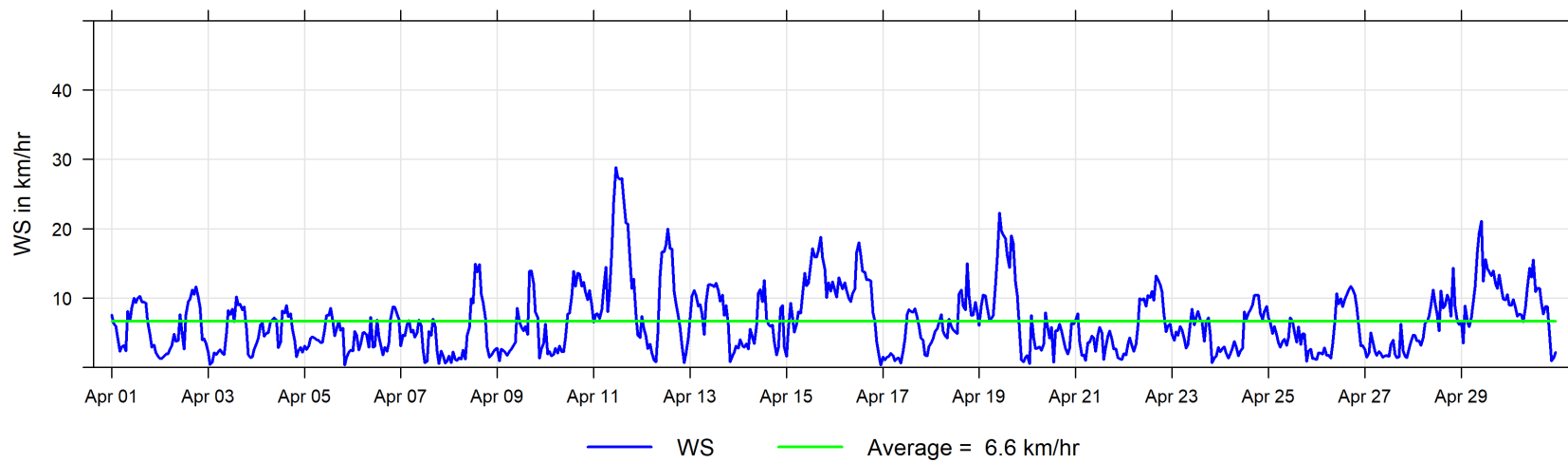
April 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



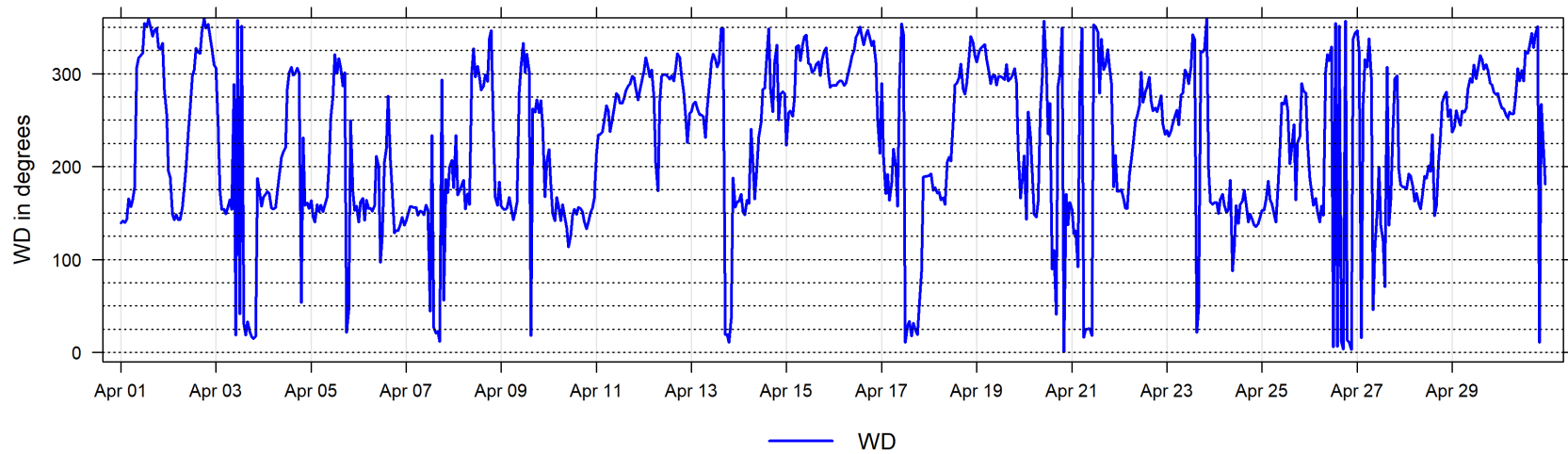
April 2025 Hourly Temperature Readings (in °C) at Fox Creek



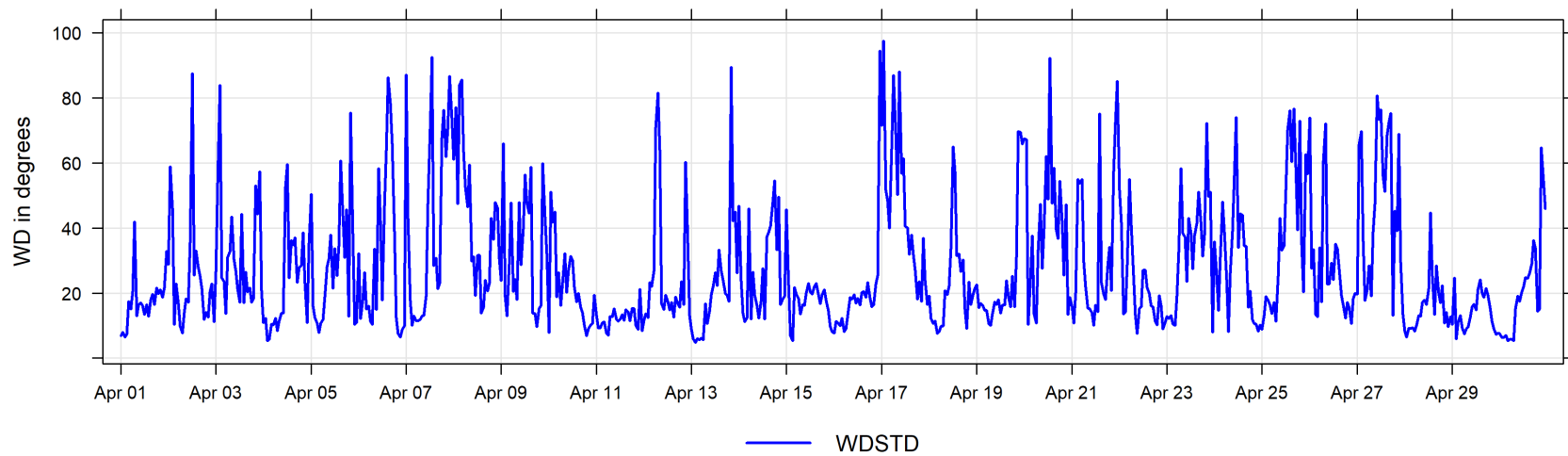
April 2025 Hourly Readings of Wind Speed (in km/hr) at Fox Creek

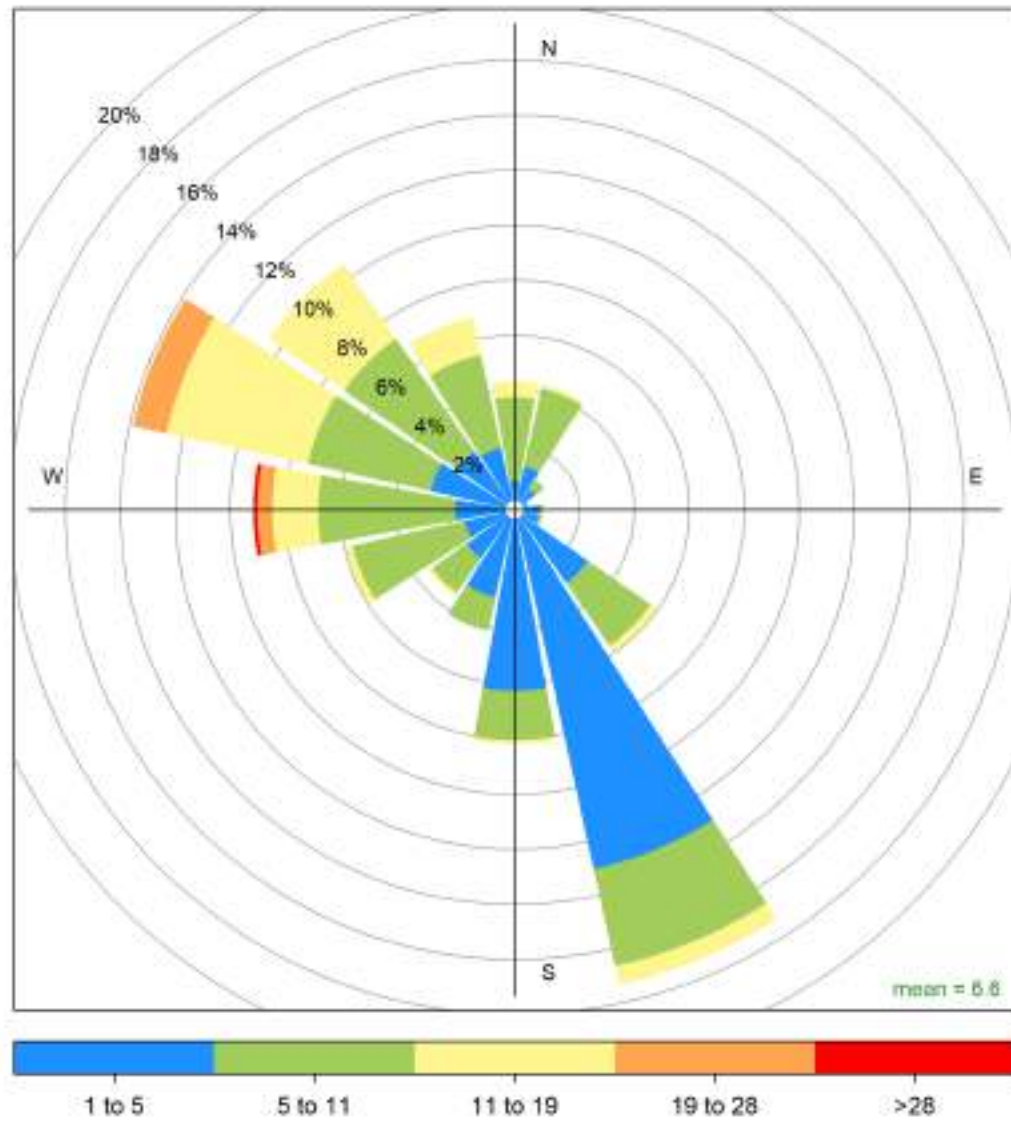


April 2025 Hourly Readings of Wind Direction (in degrees) at Fox Creek



April 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Fox Creek

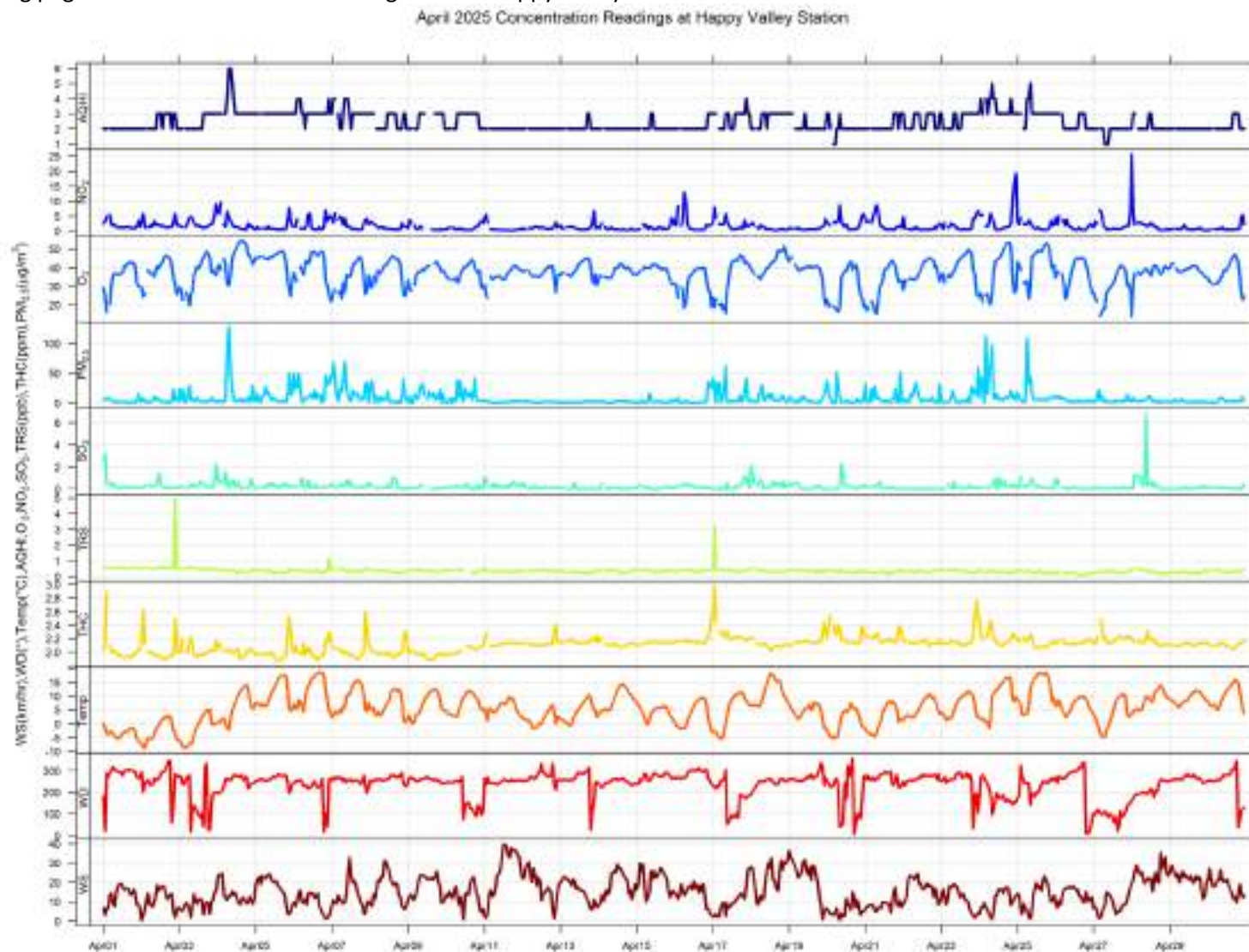




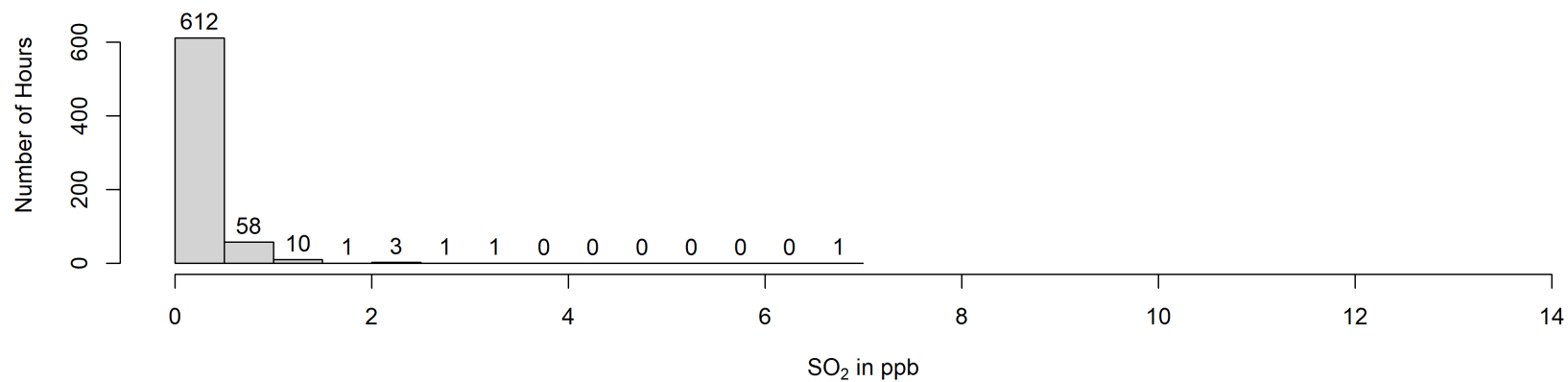
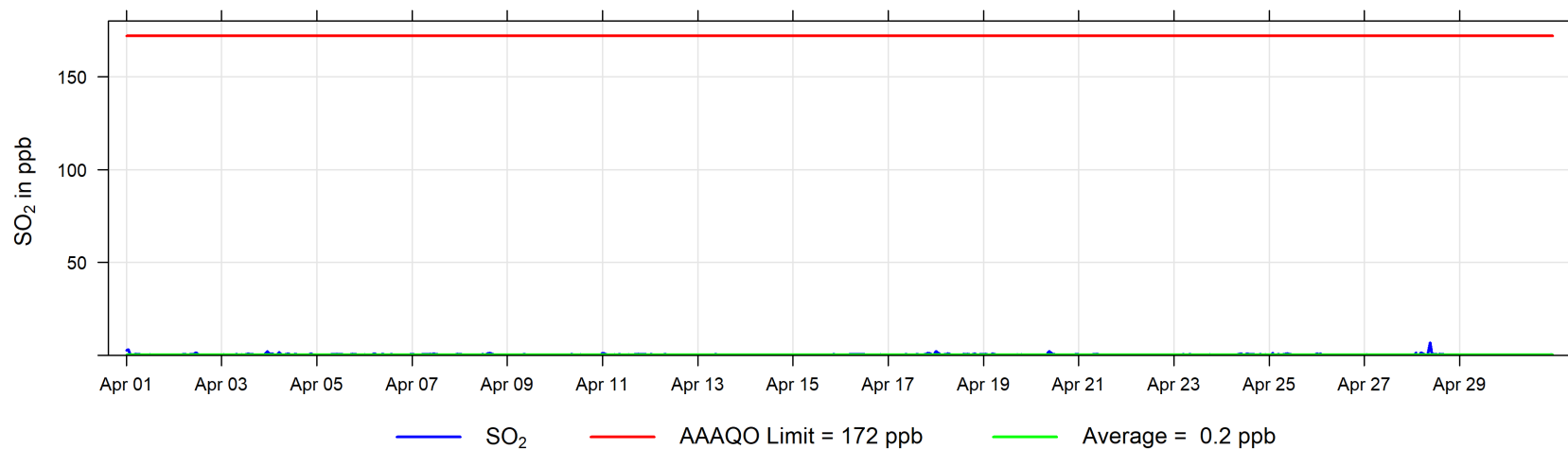
Fox Creek April 2025 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 3.5 %

8 Happy Valley (Portable) Charts

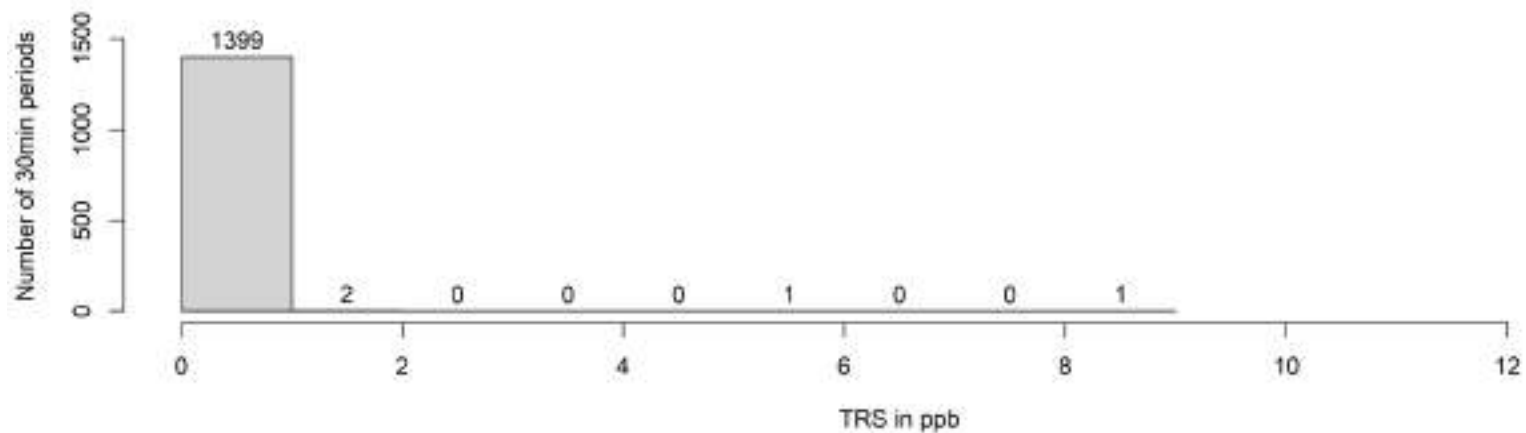
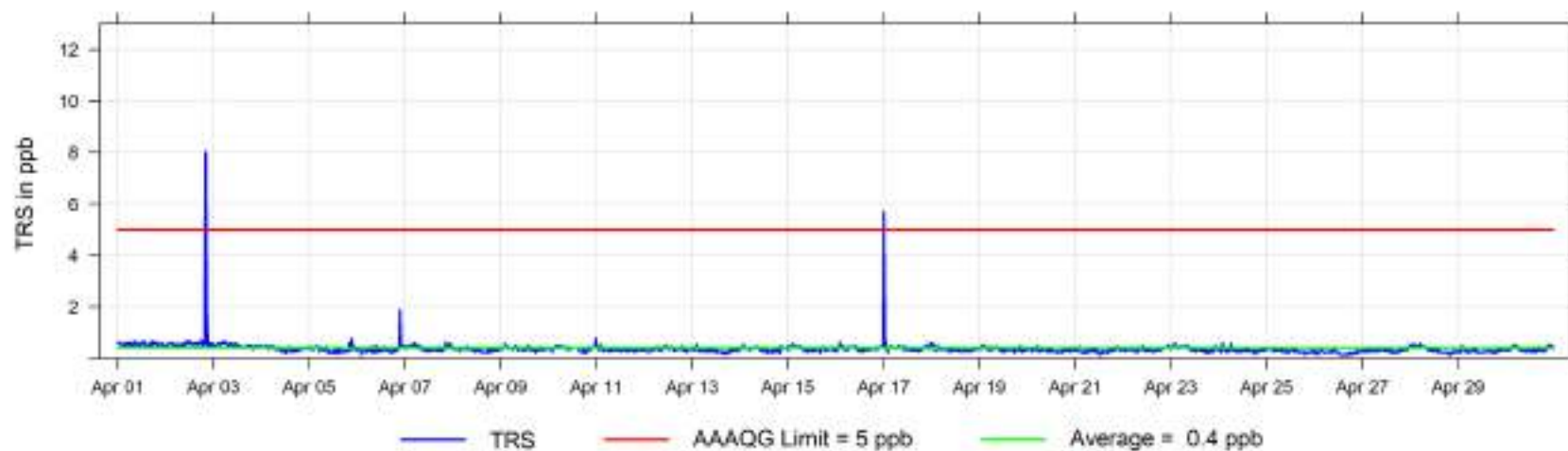
The following pages include the charts and histograms for Happy Valley Portable Station



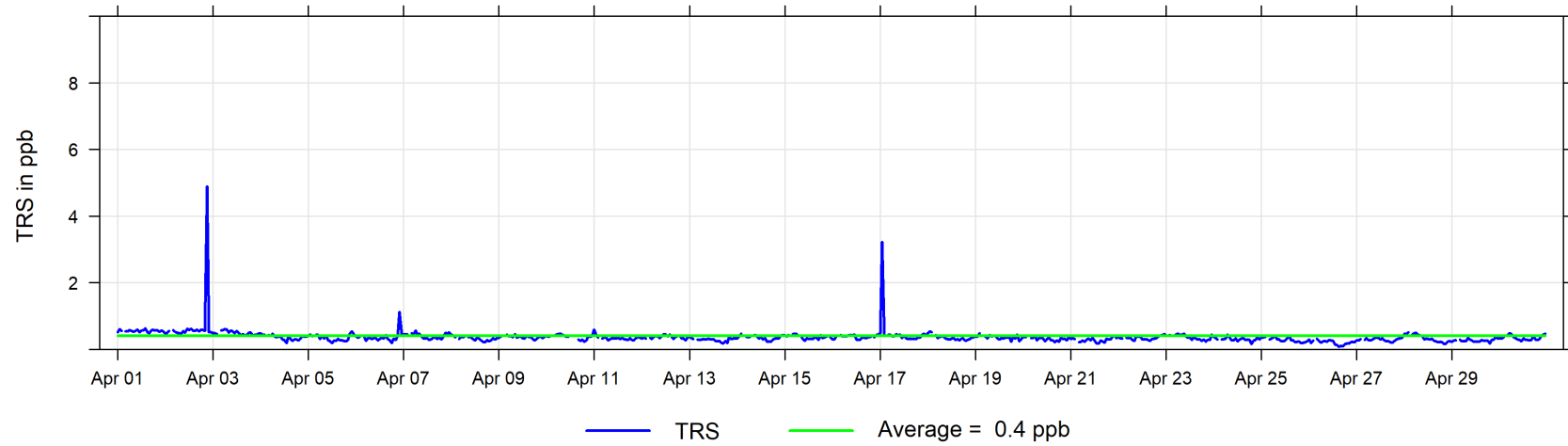
April 2025 Hourly Concentration Readings of SO₂ (in ppb) at Happy Valley



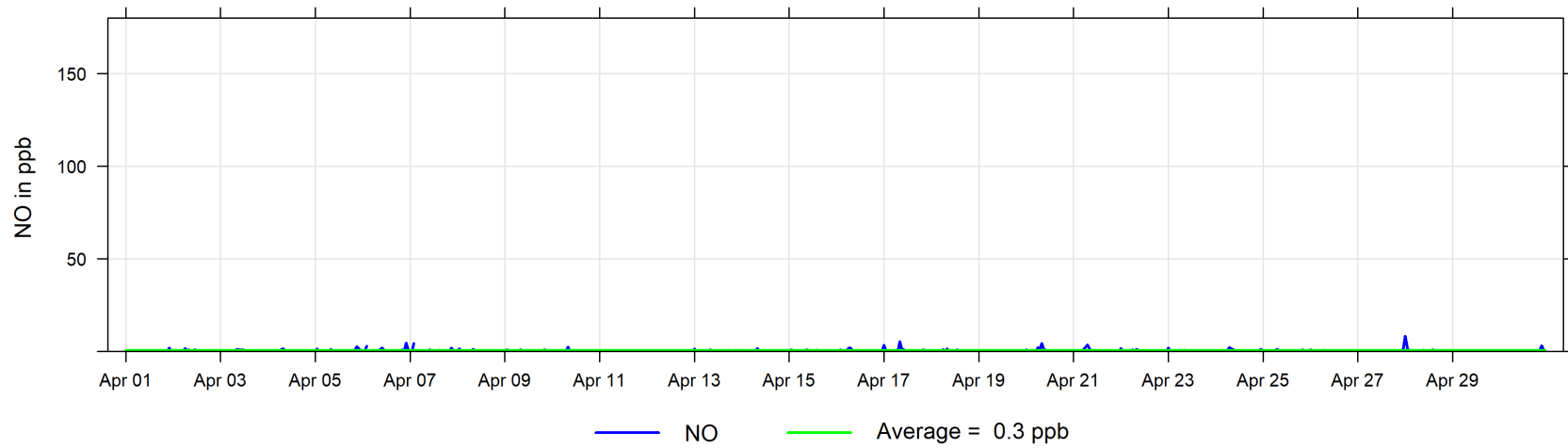
April 2025 30 min Concentration Readings of TRS (in ppb) at Happy Valley



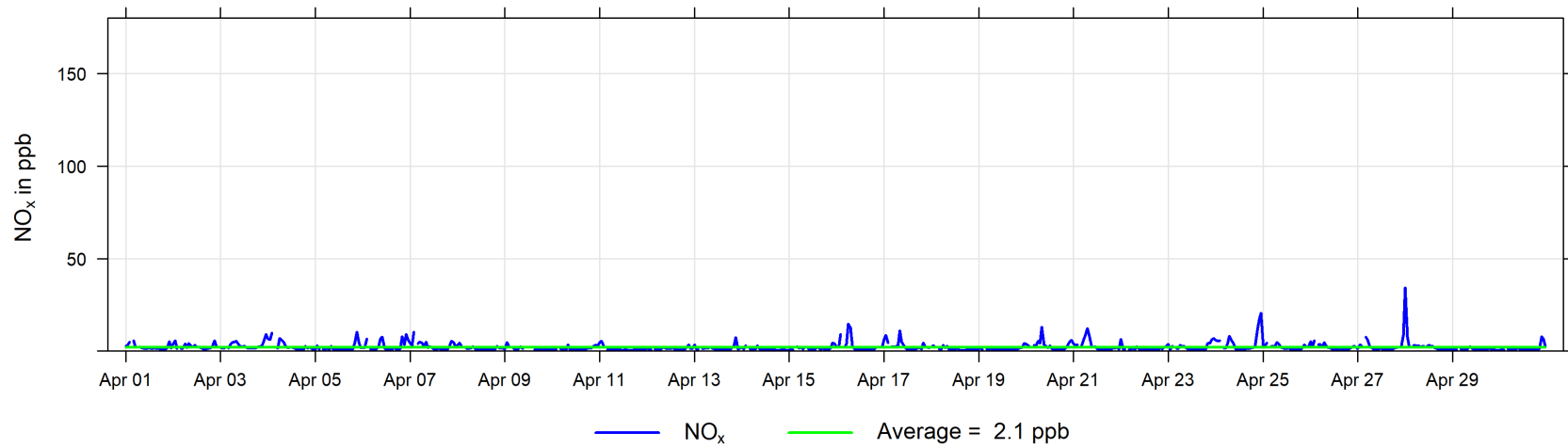
April 2025 Hourly Concentration Readings of TRS (in ppb) at Happy Valley



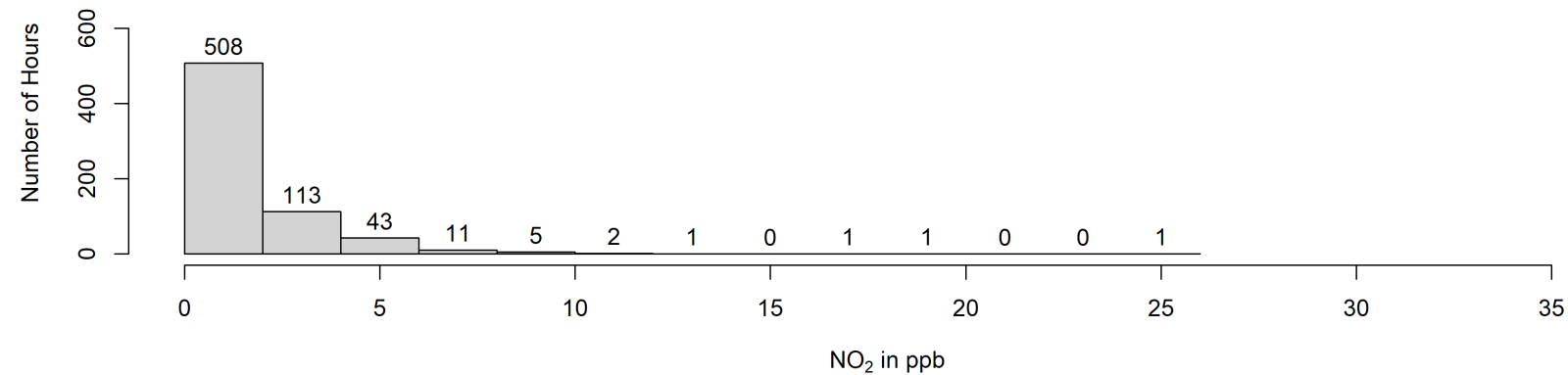
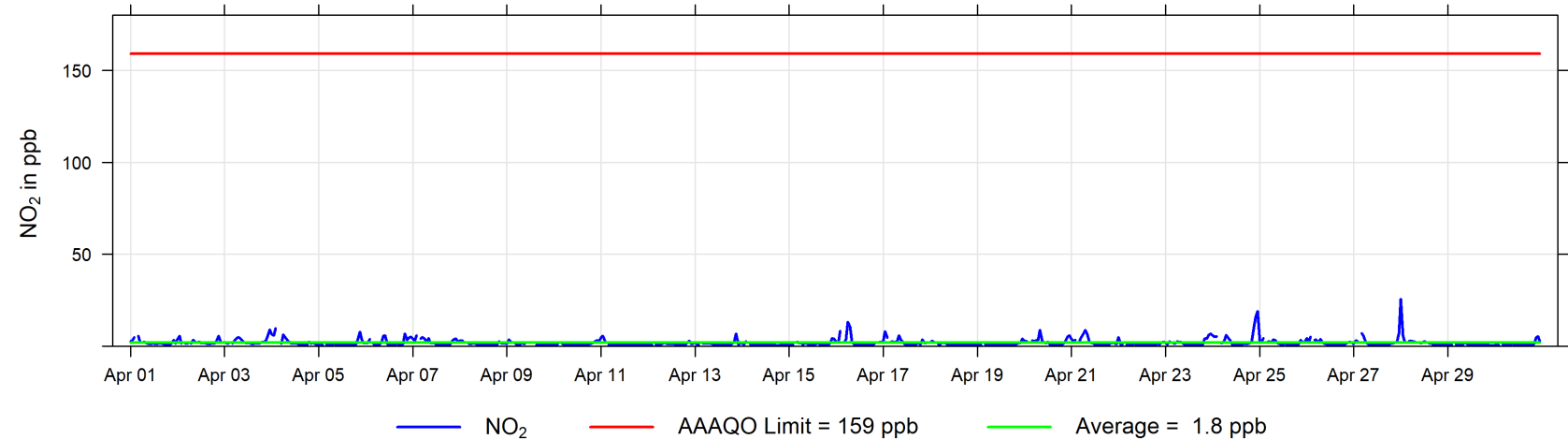
April 2025 Hourly Concentration Readings of NO (in ppb) at Happy Valley



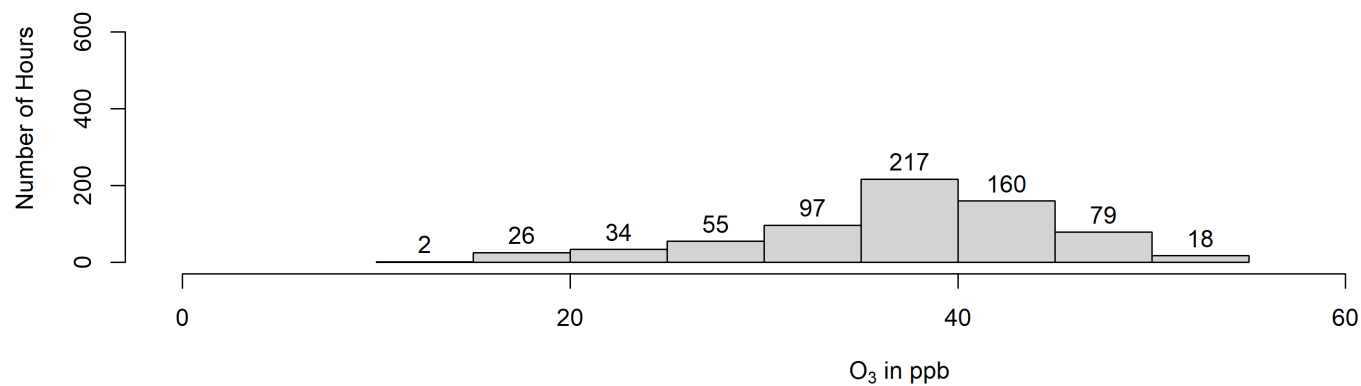
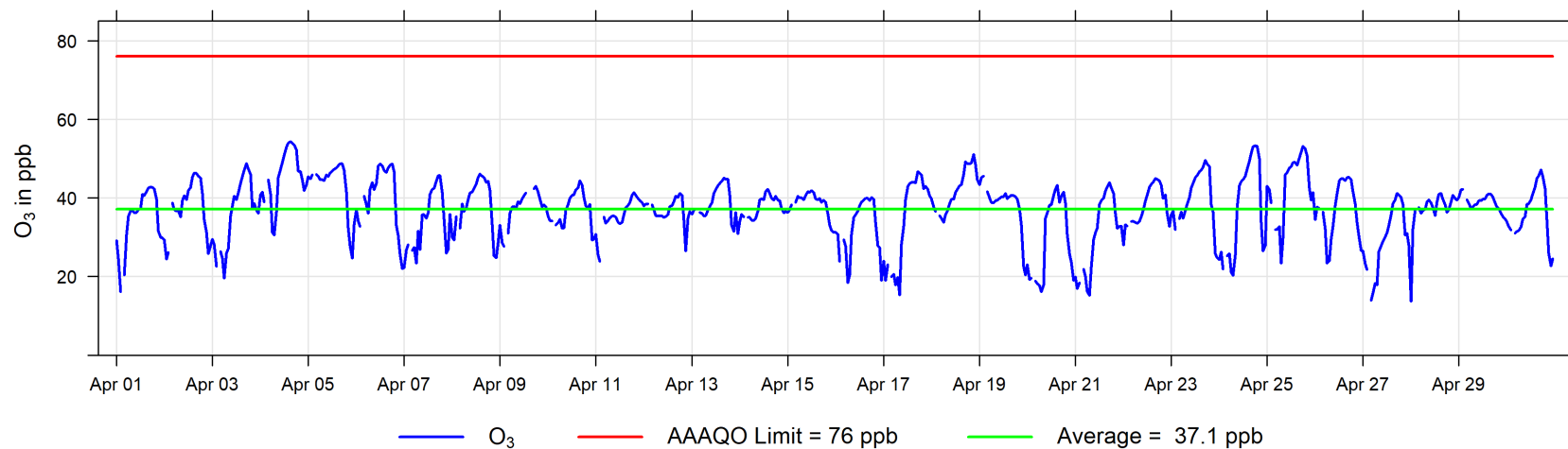
April 2025 Hourly Concentration Readings of NO_x (in ppb) at Happy Valley



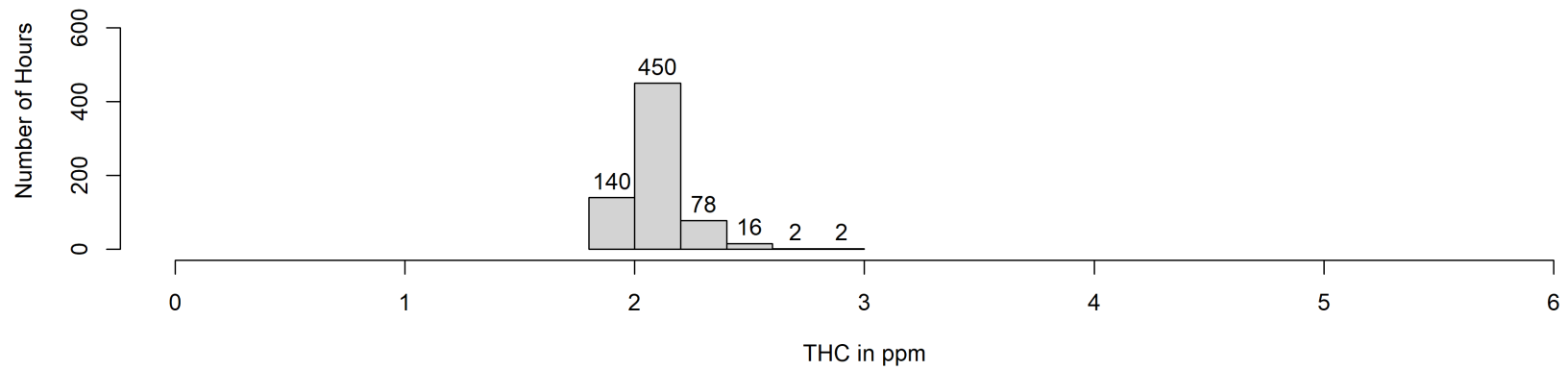
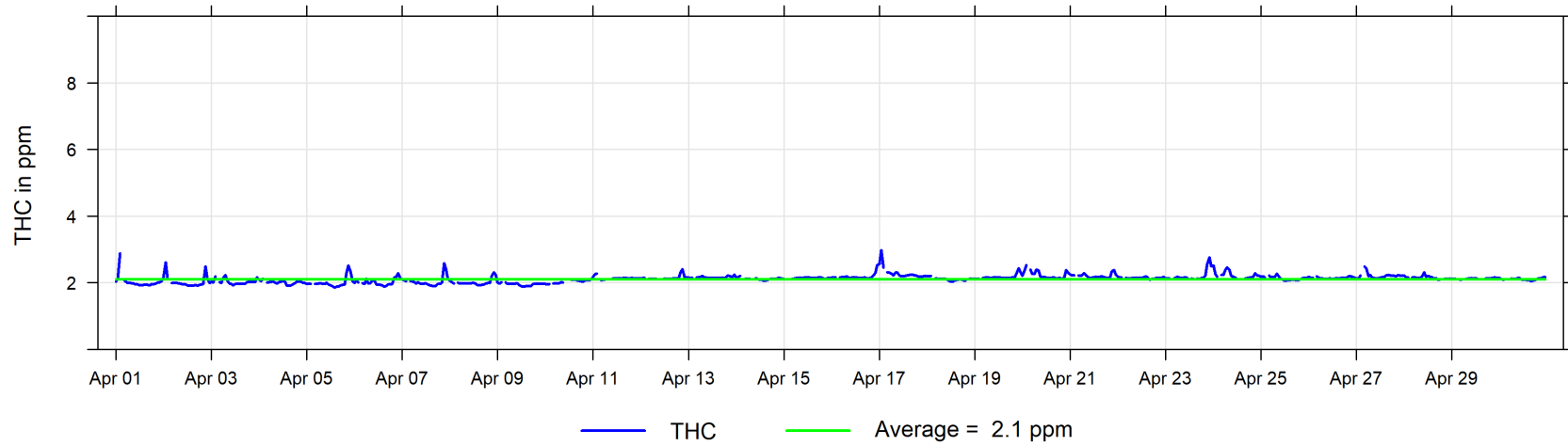
April 2025 Hourly Concentration Readings of NO₂ (in ppb) at Happy Valley



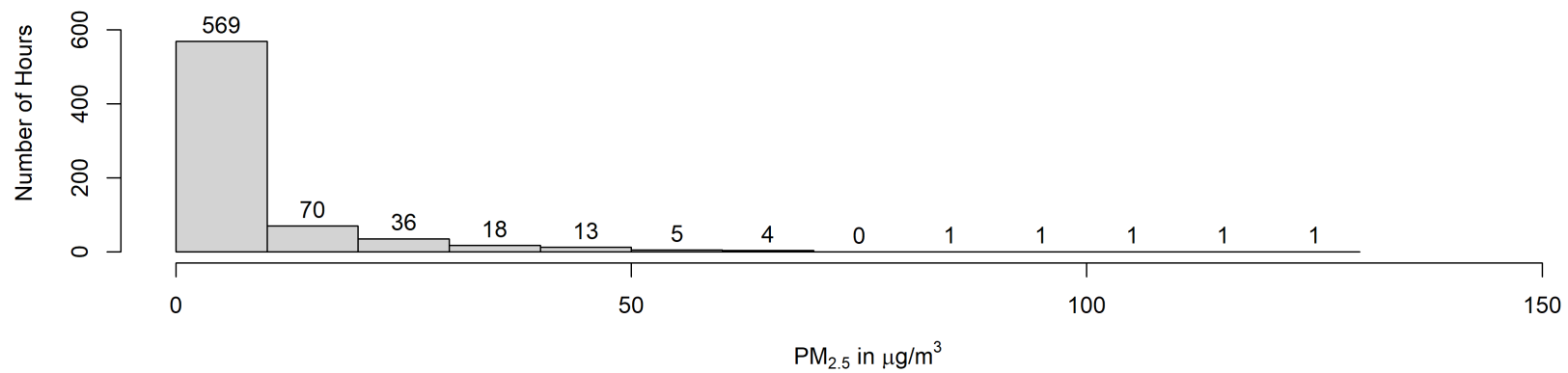
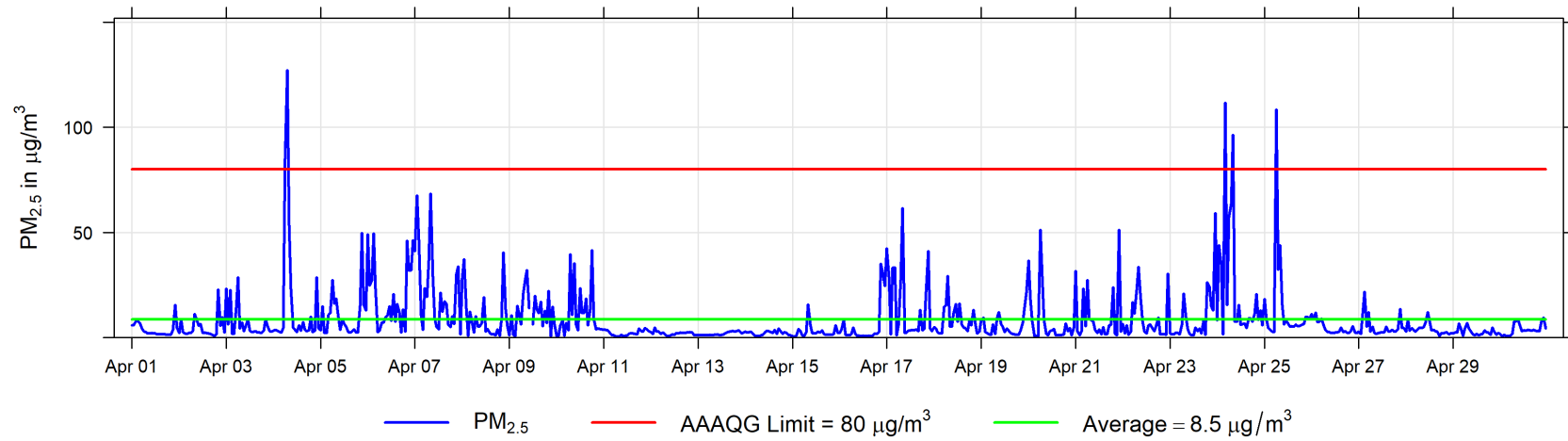
April 2025 Hourly Concentration Readings of O₃ (in ppb) at Happy Valley



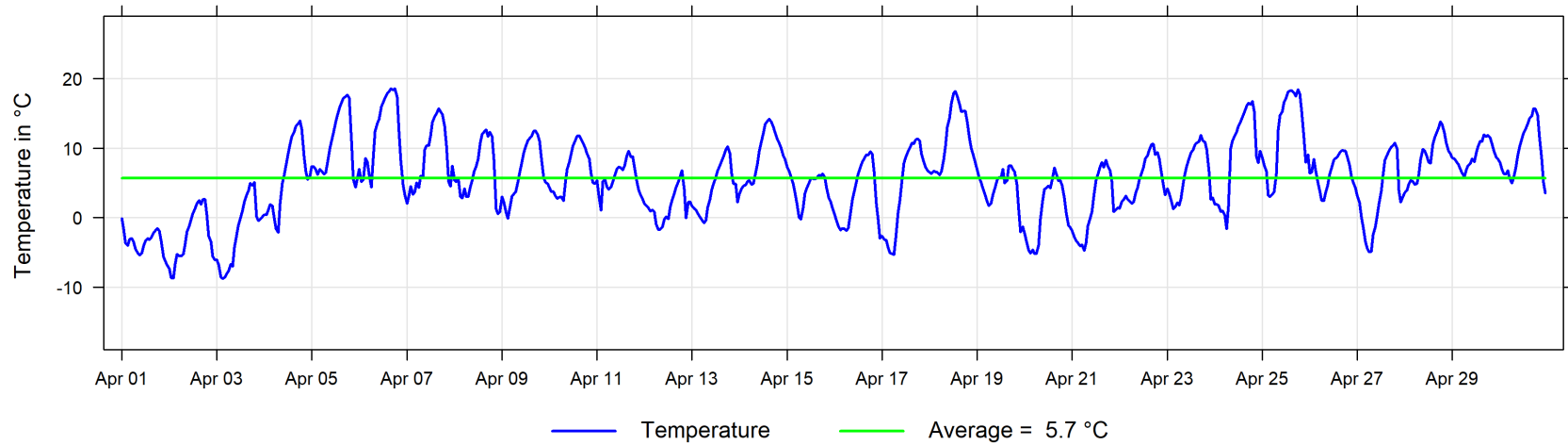
April 2025 Hourly Concentration Readings of THC (in ppm) at Happy Valley



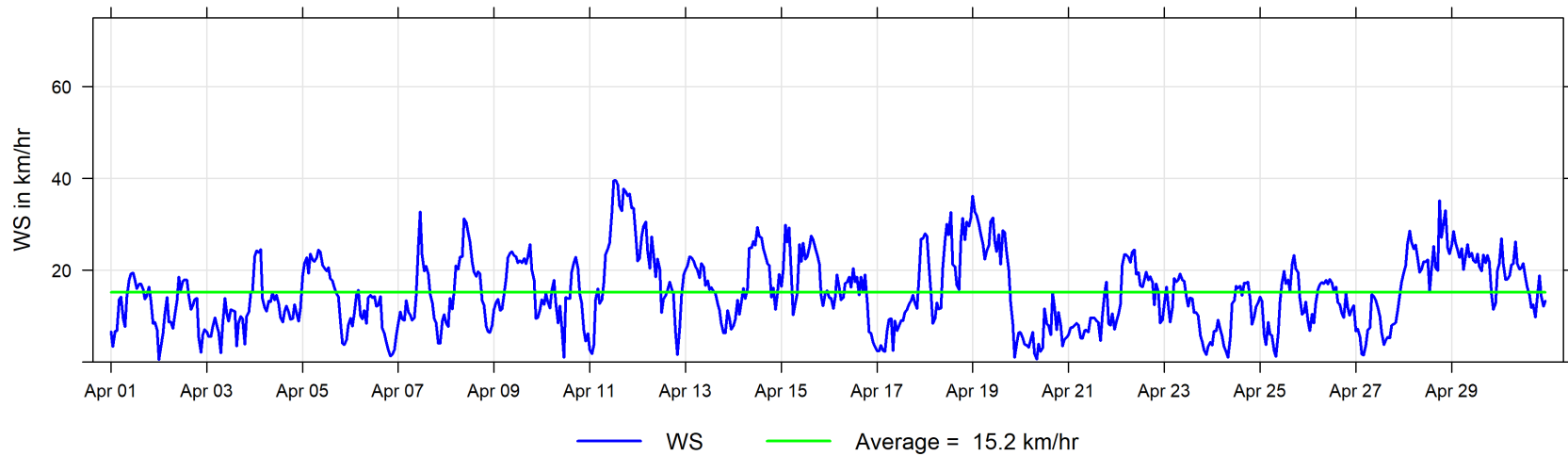
April 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Happy Valley



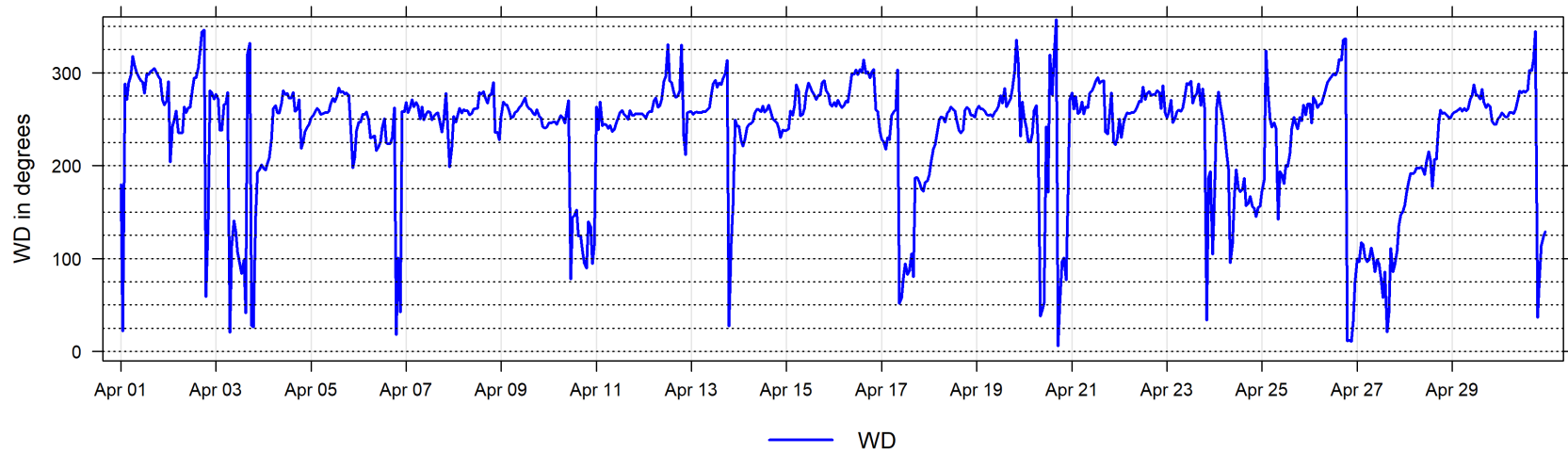
April 2025 Hourly Temperature Readings (in °C) at Happy Valley



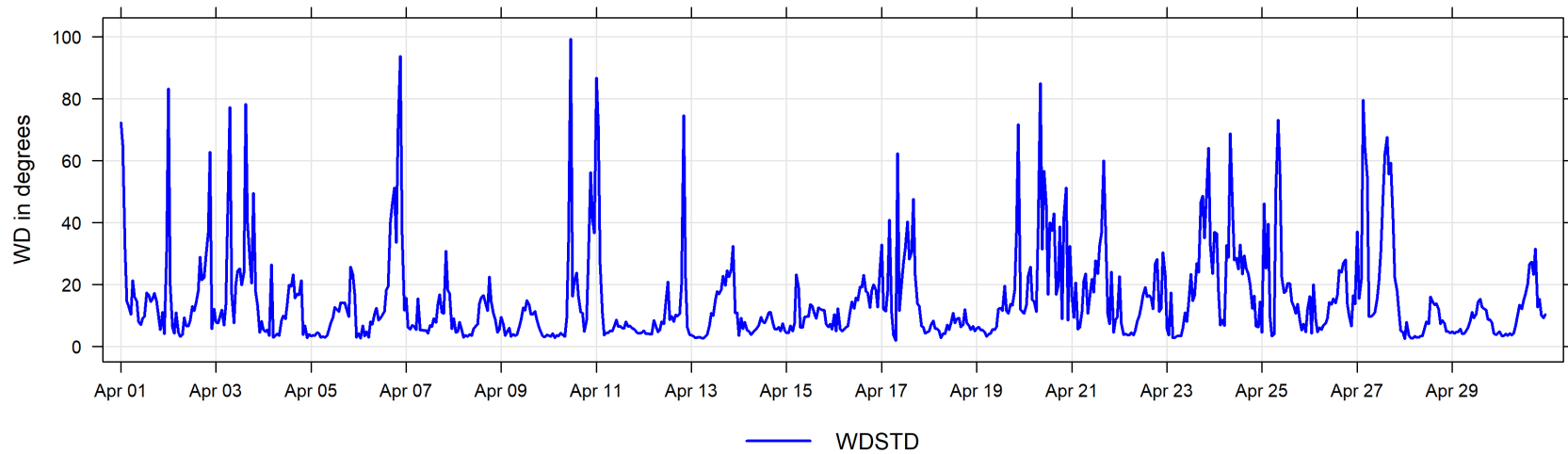
April 2025 Hourly Readings of Wind Speed (in km/hr) at Happy Valley

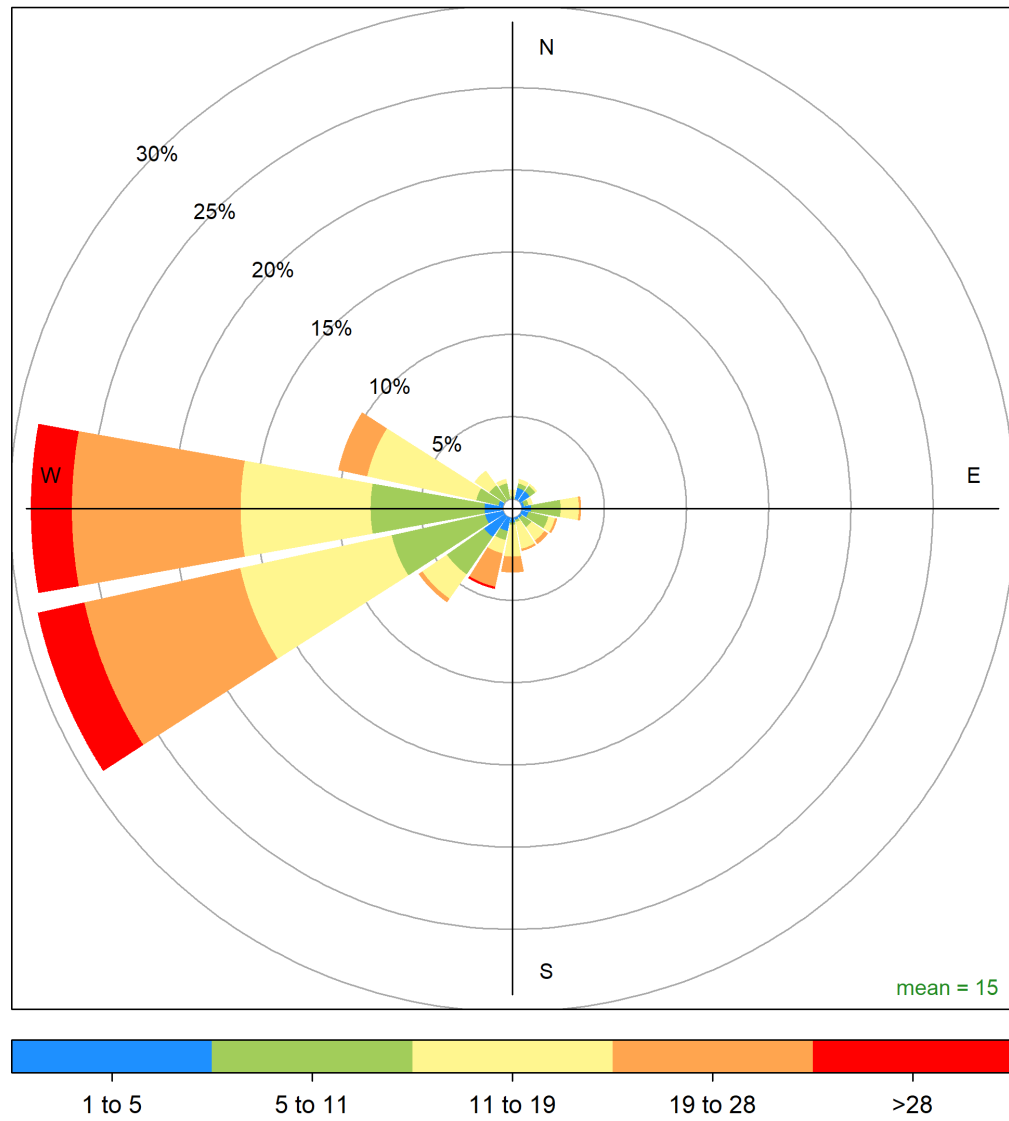


April 2025 Hourly Readings of Wind Direction (in degrees) at Happy Valley



April 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Happy Valley

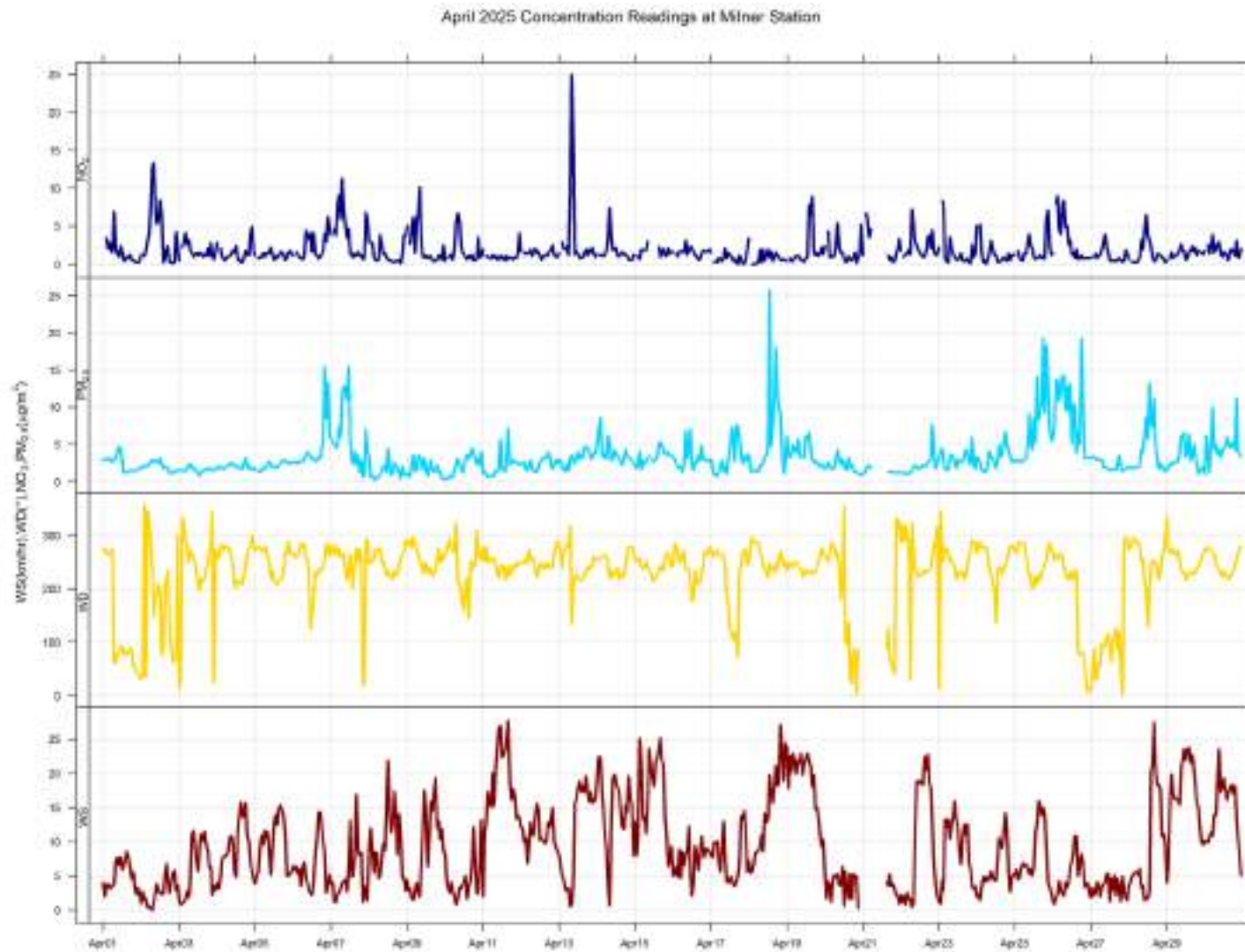




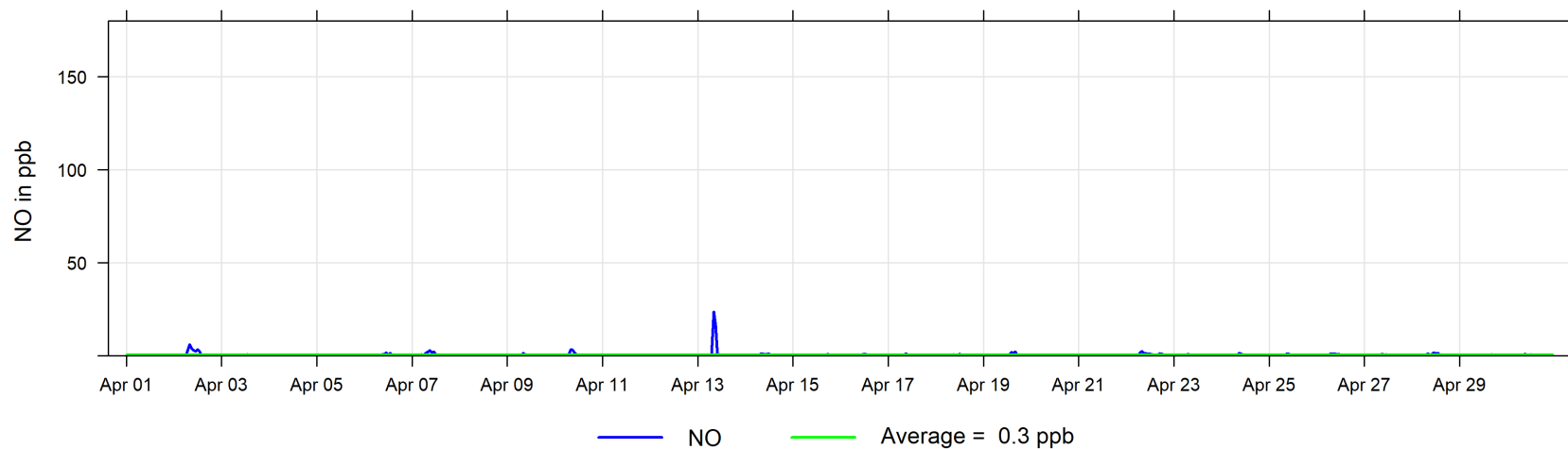
Happy Valley April 2025 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 0.7 %

9 Milner Charts

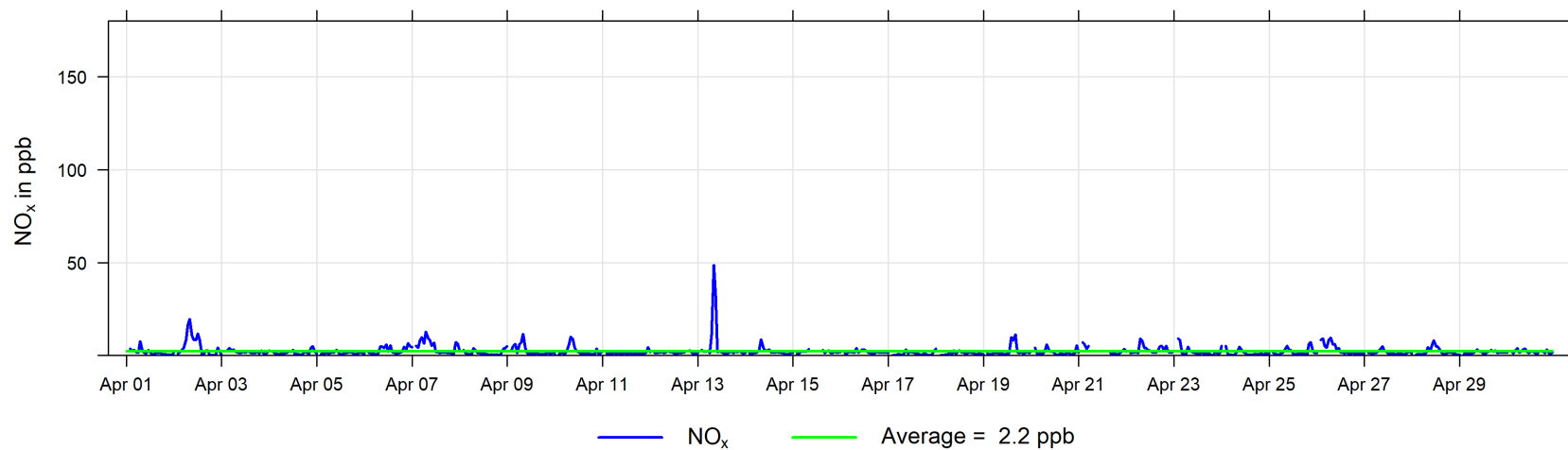
The following pages include the charts and histograms for Milner Station



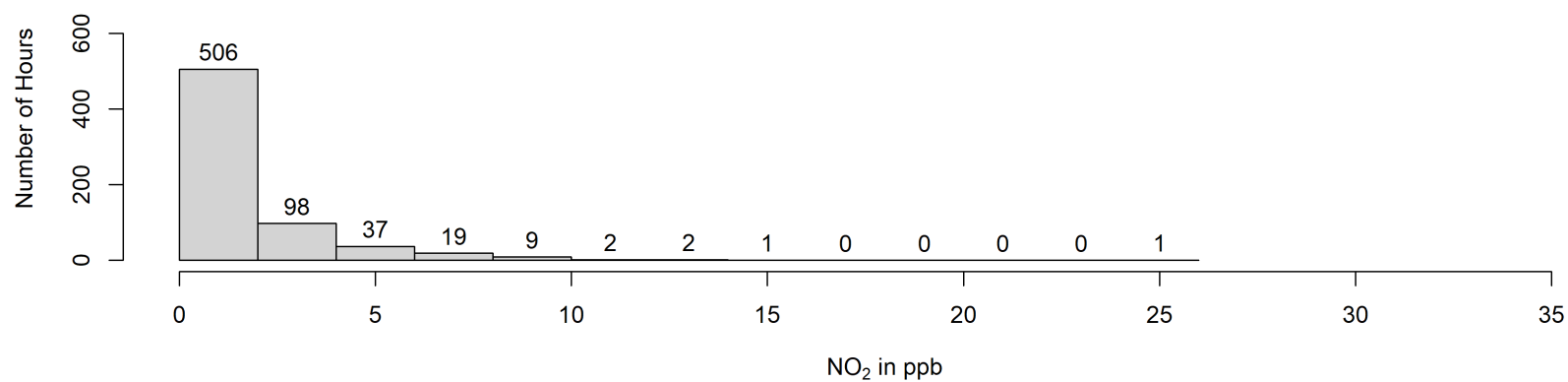
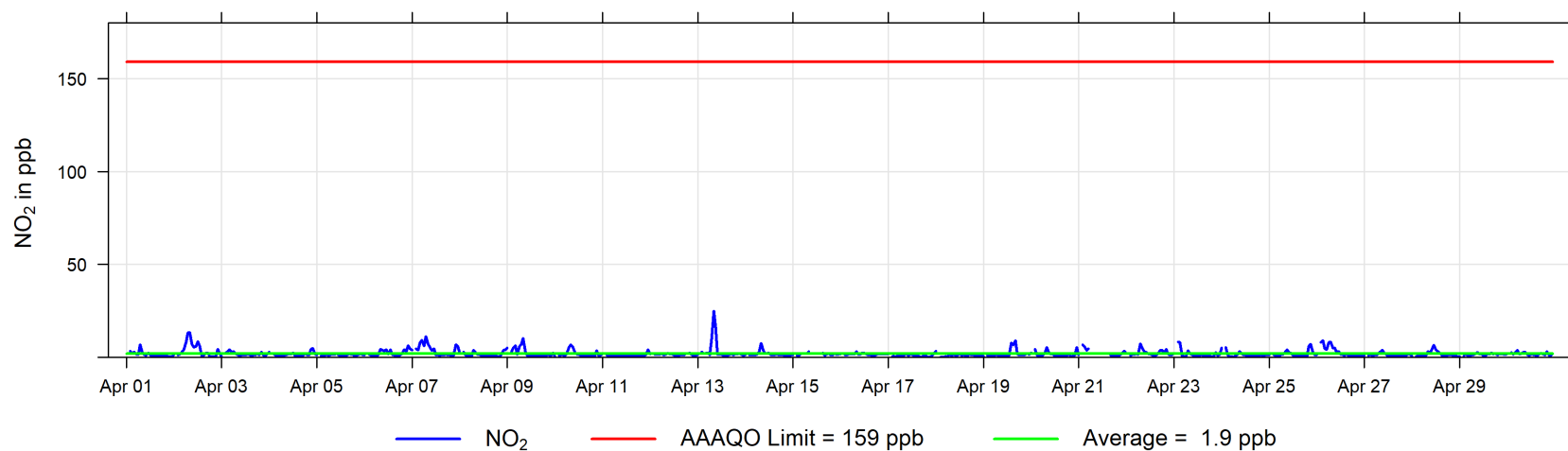
April 2025 Hourly Concentration Readings of NO (in ppb) at Milner



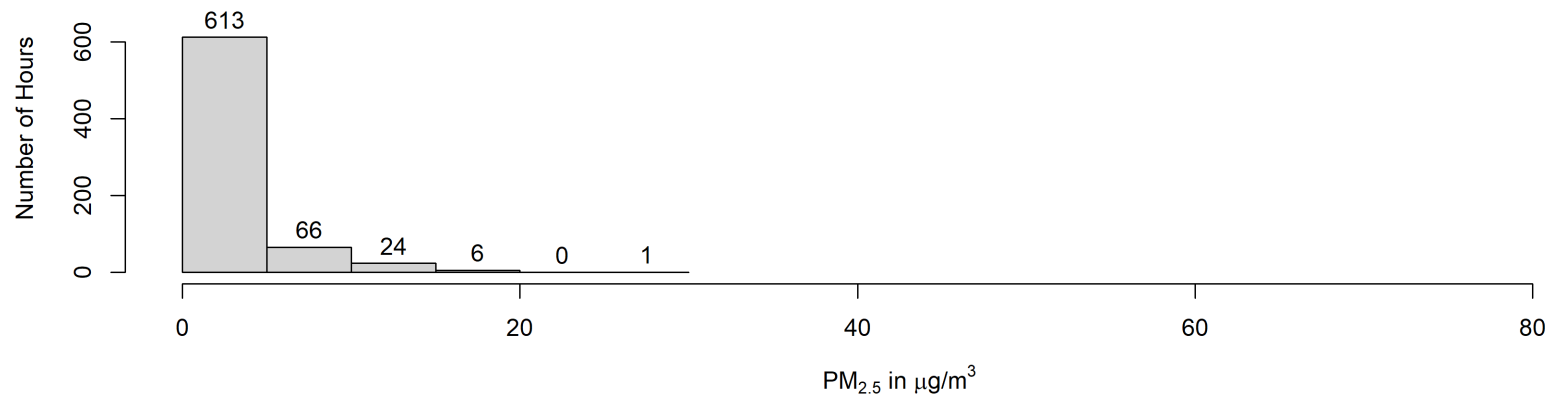
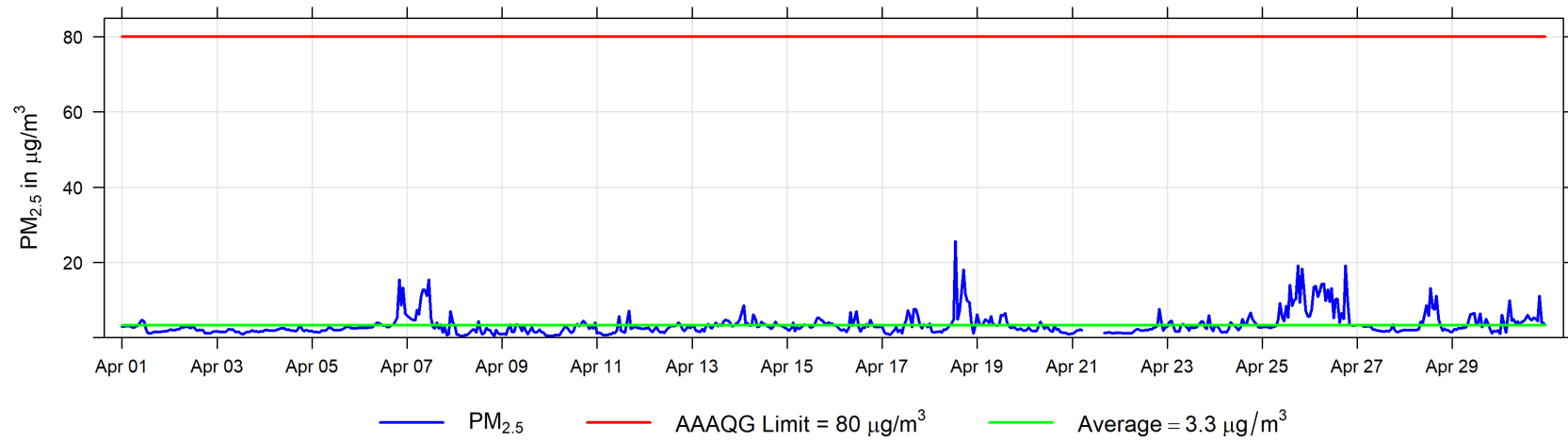
April 2025 Hourly Concentration Readings of NO_x (in ppb) at Milner



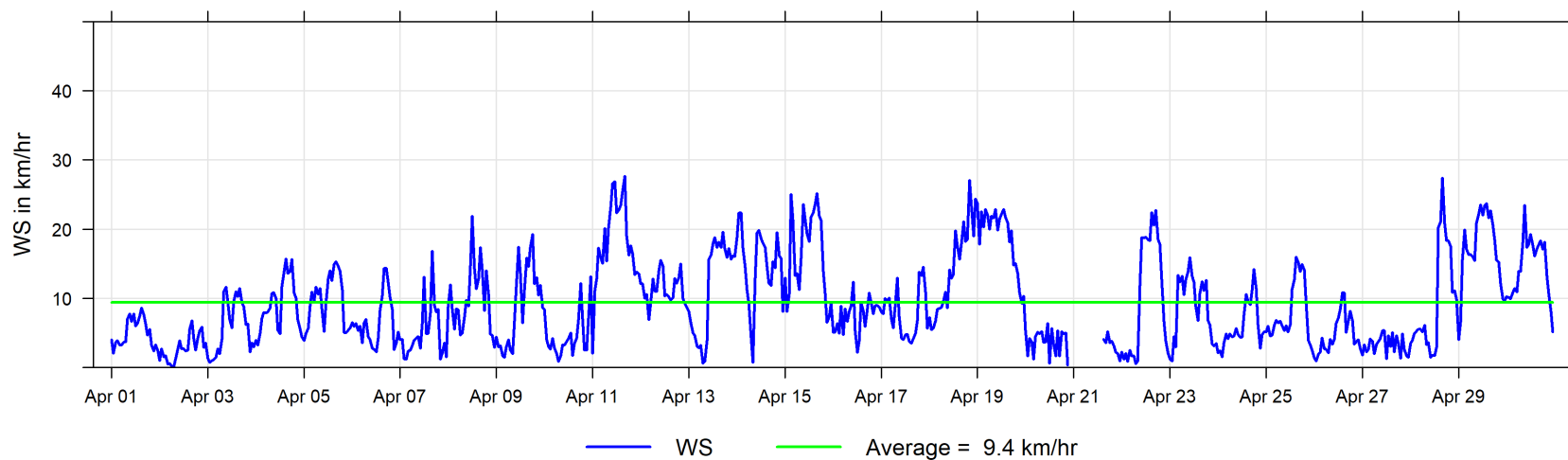
April 2025 Hourly Concentration Readings of NO₂ (in ppb) at Milner



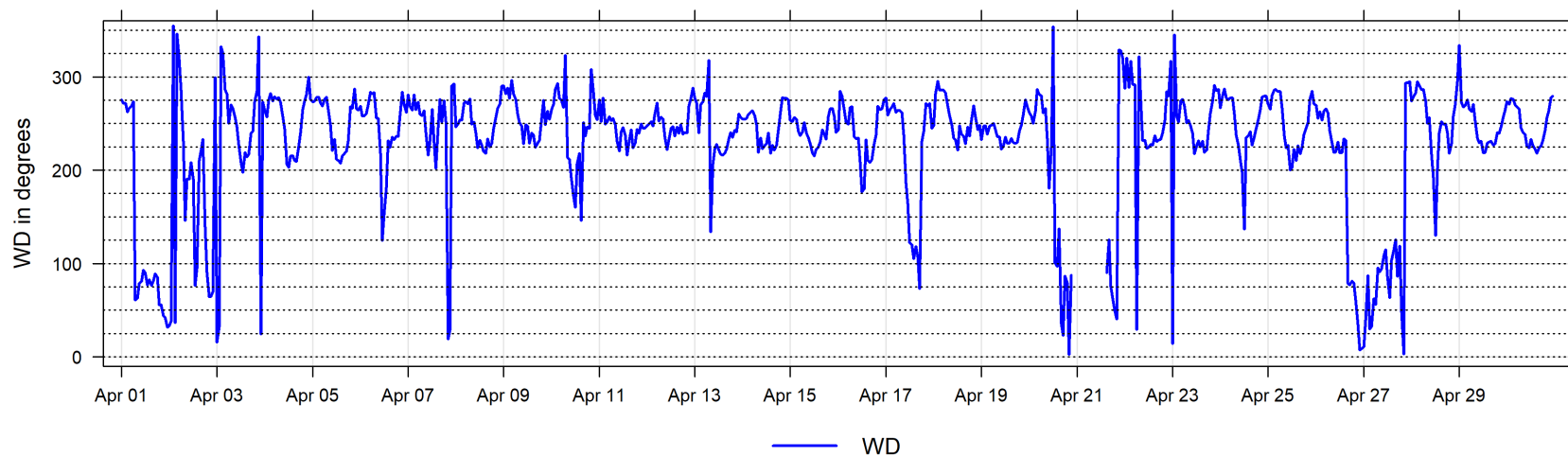
April 2025 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner



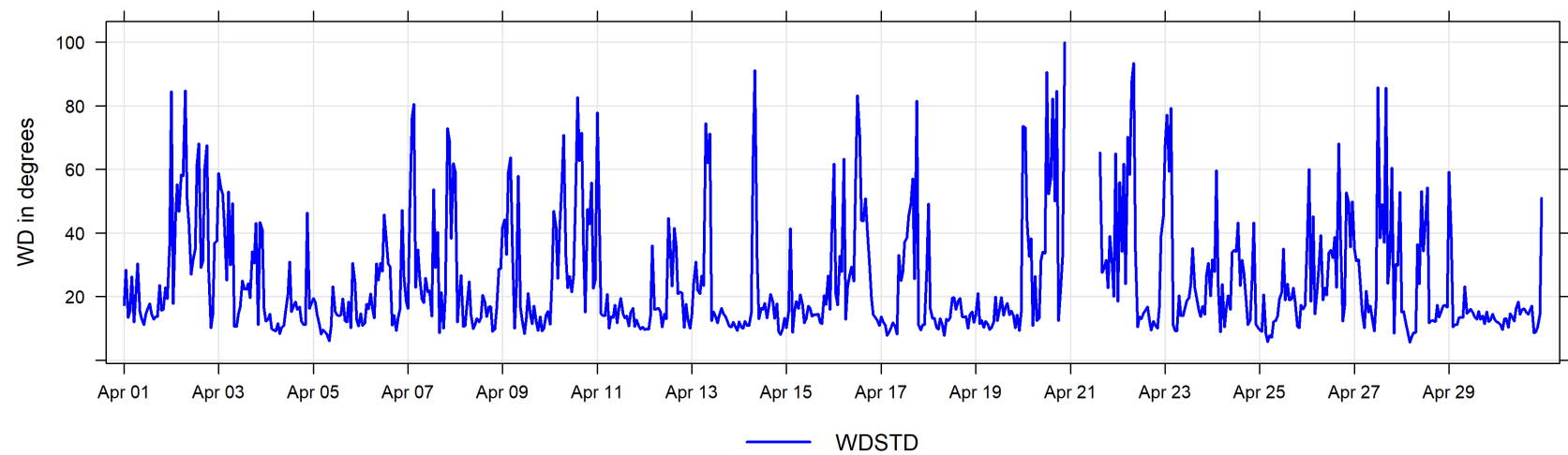
April 2025 Hourly Readings of Wind Speed (in km/hr) at Milner

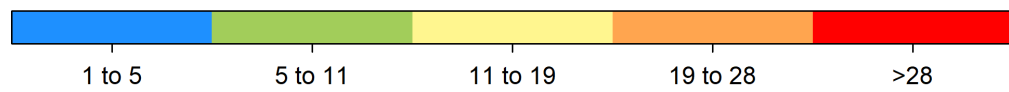
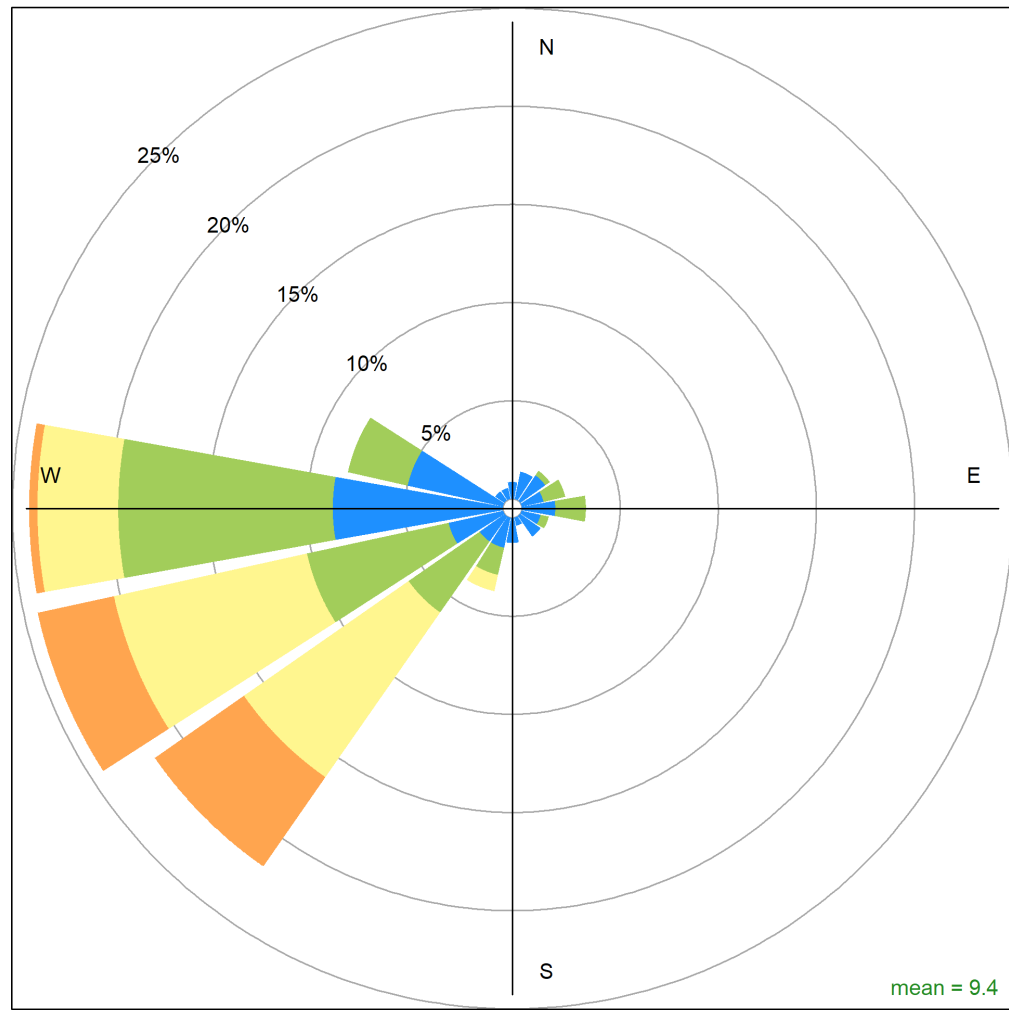


April 2025 Hourly Readings of Wind Direction (in degrees) at Milner



April 2025 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Milner

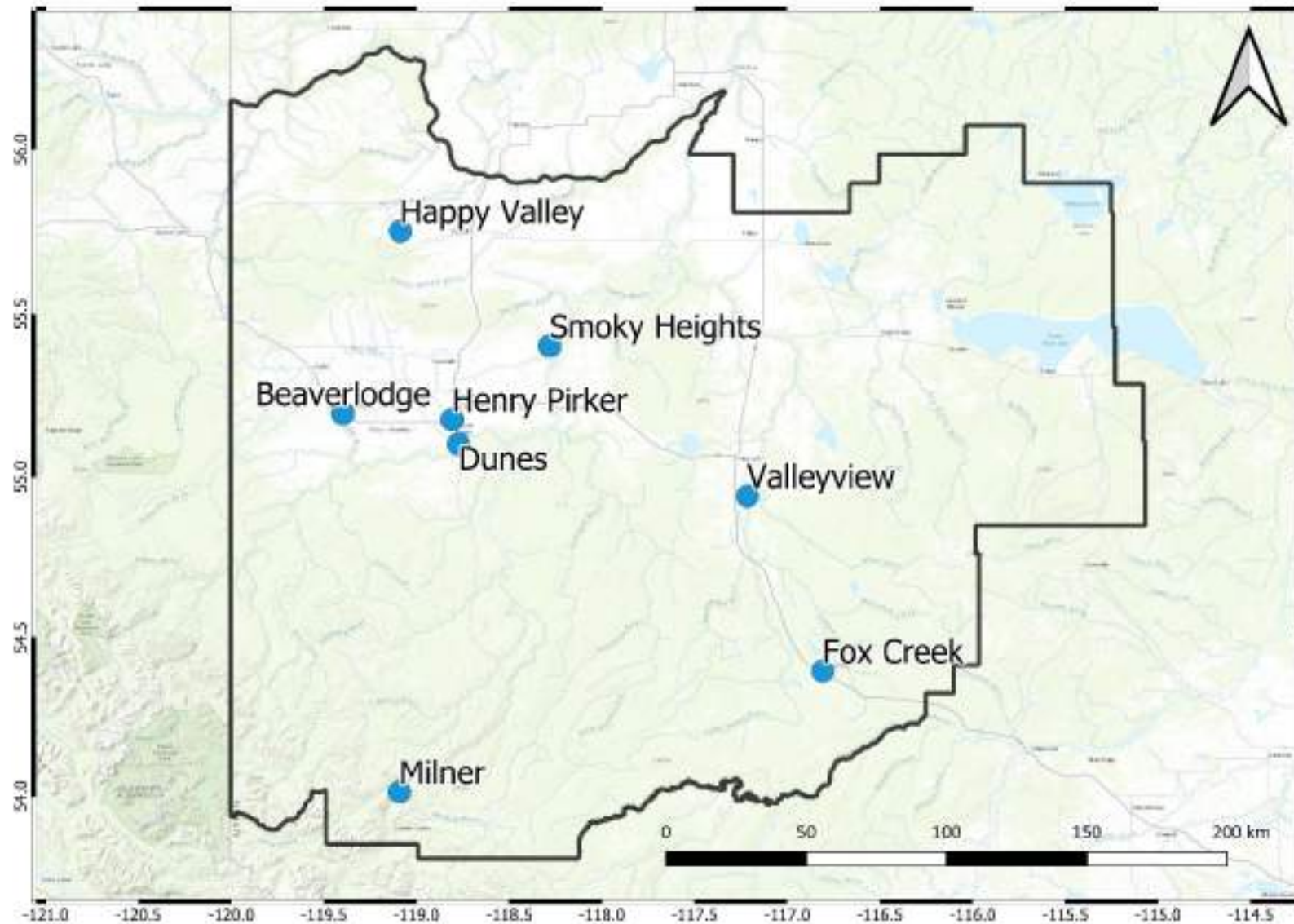




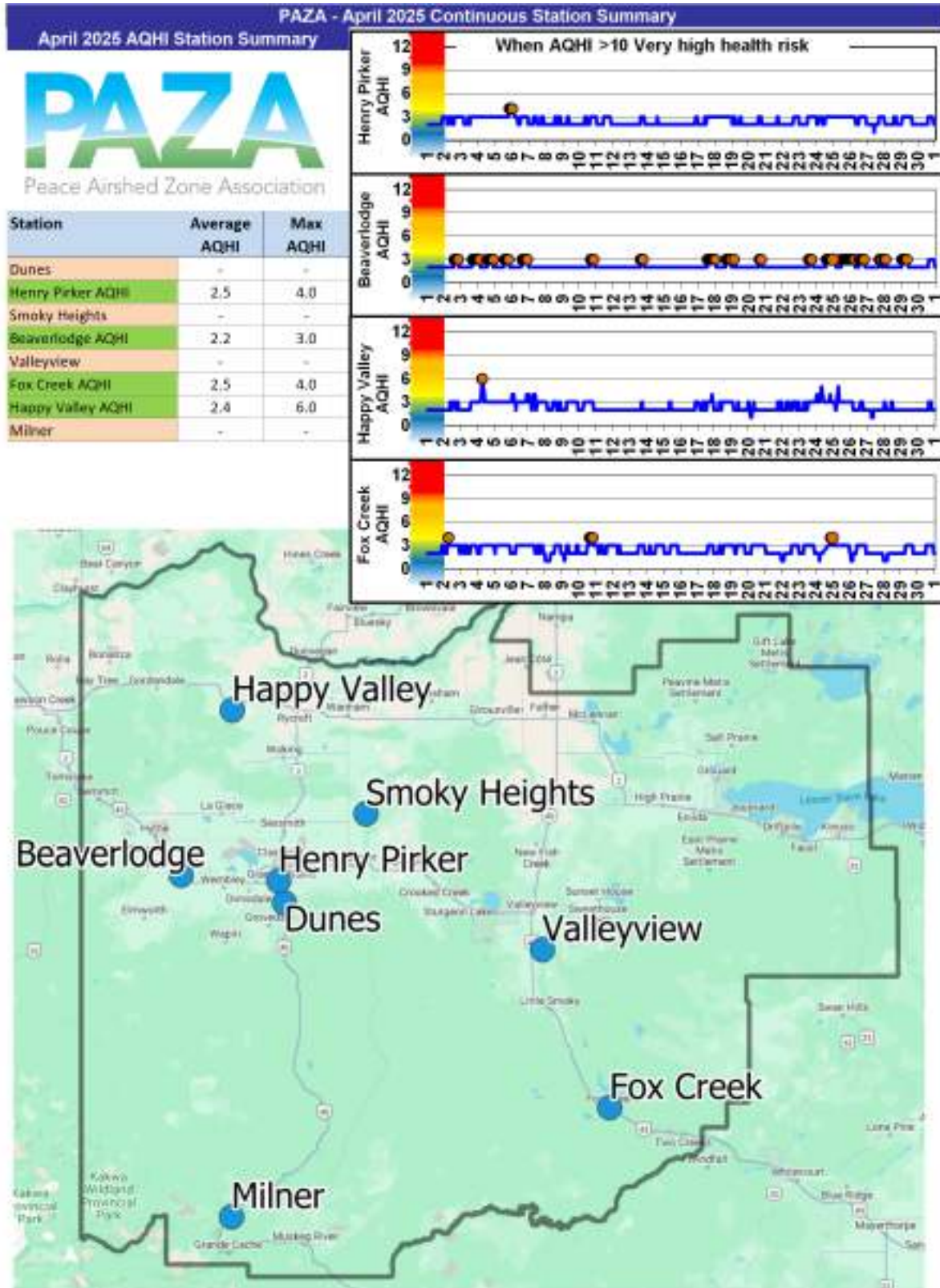
Milner April 2025 Wind Rose, wind speed in km/hr

Calms (<1km/hr) = 2.7 %

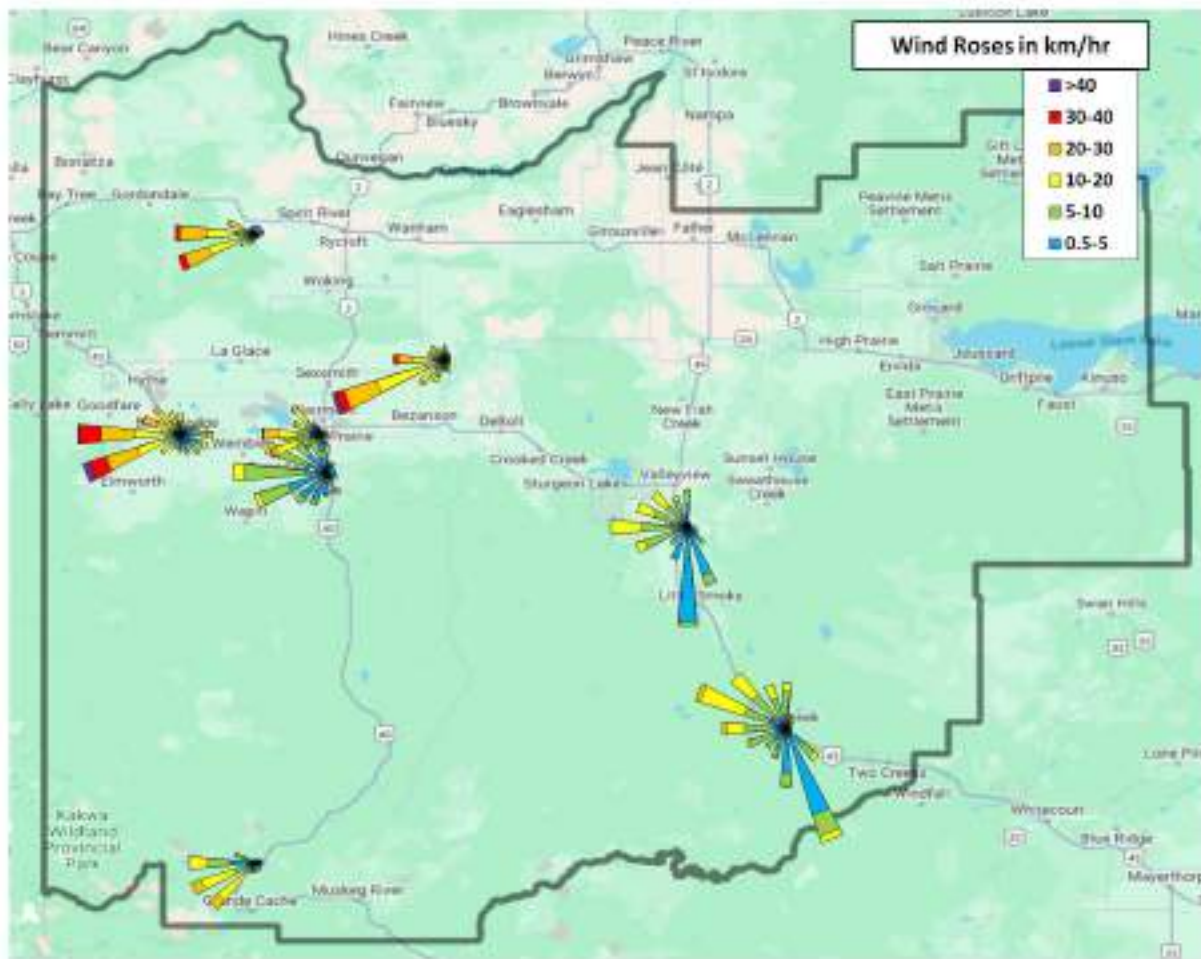
10 Concentration Summaries and Roses for PAZA



10.1 Air Quality Health Index (AQHI) Plots

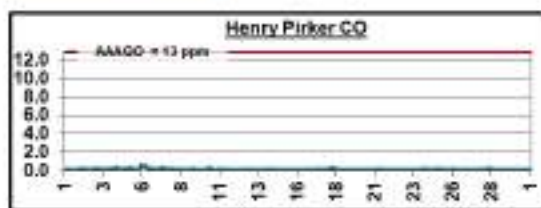


10.2 Wind Roses

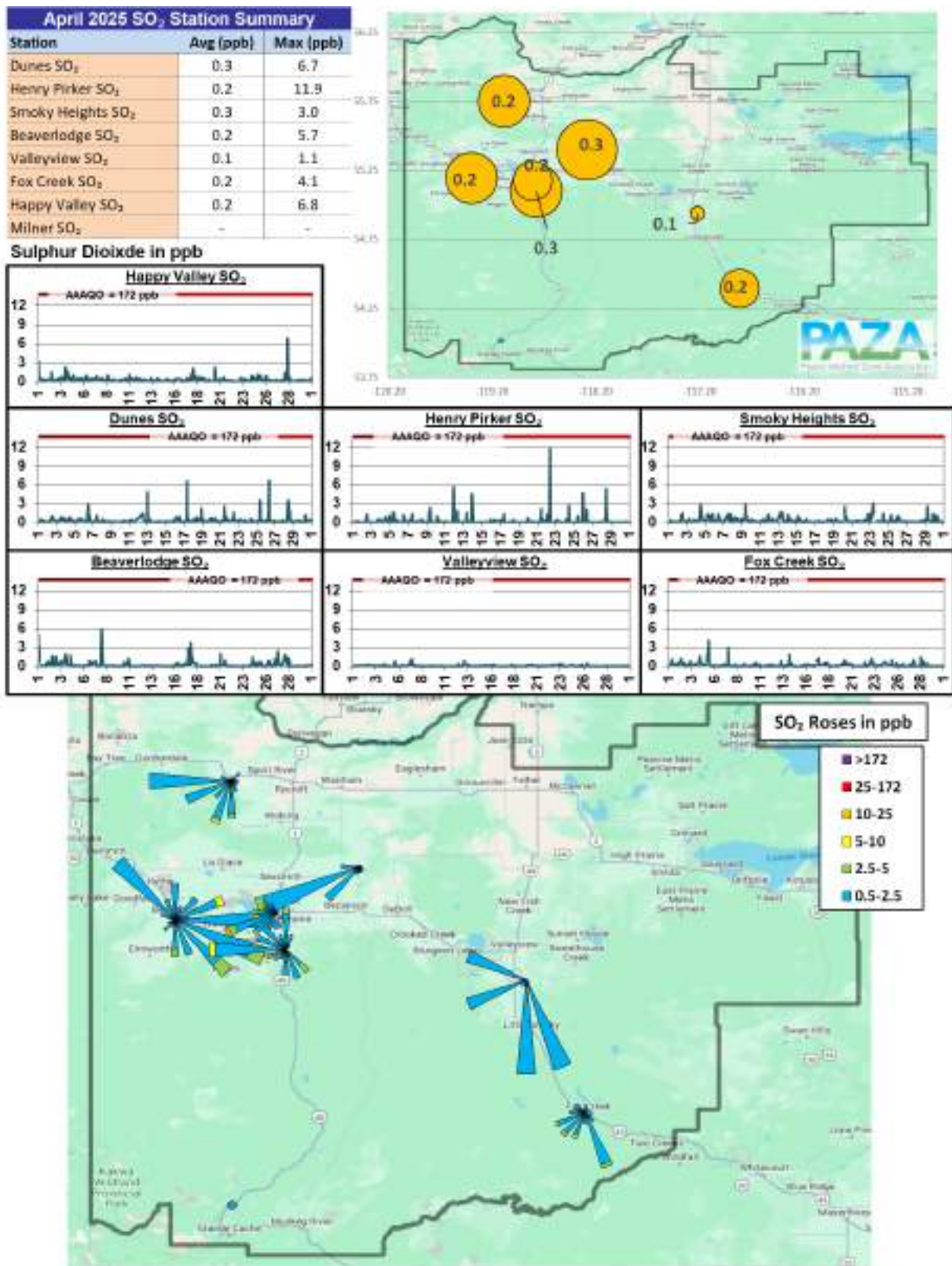


10.3 Carbon Monoxide (CO) Plots

April 2025 CO Station Summary		
Station	Avg (ppm)	Max (ppm)
Henry Pirkler CO	0.17	0.67



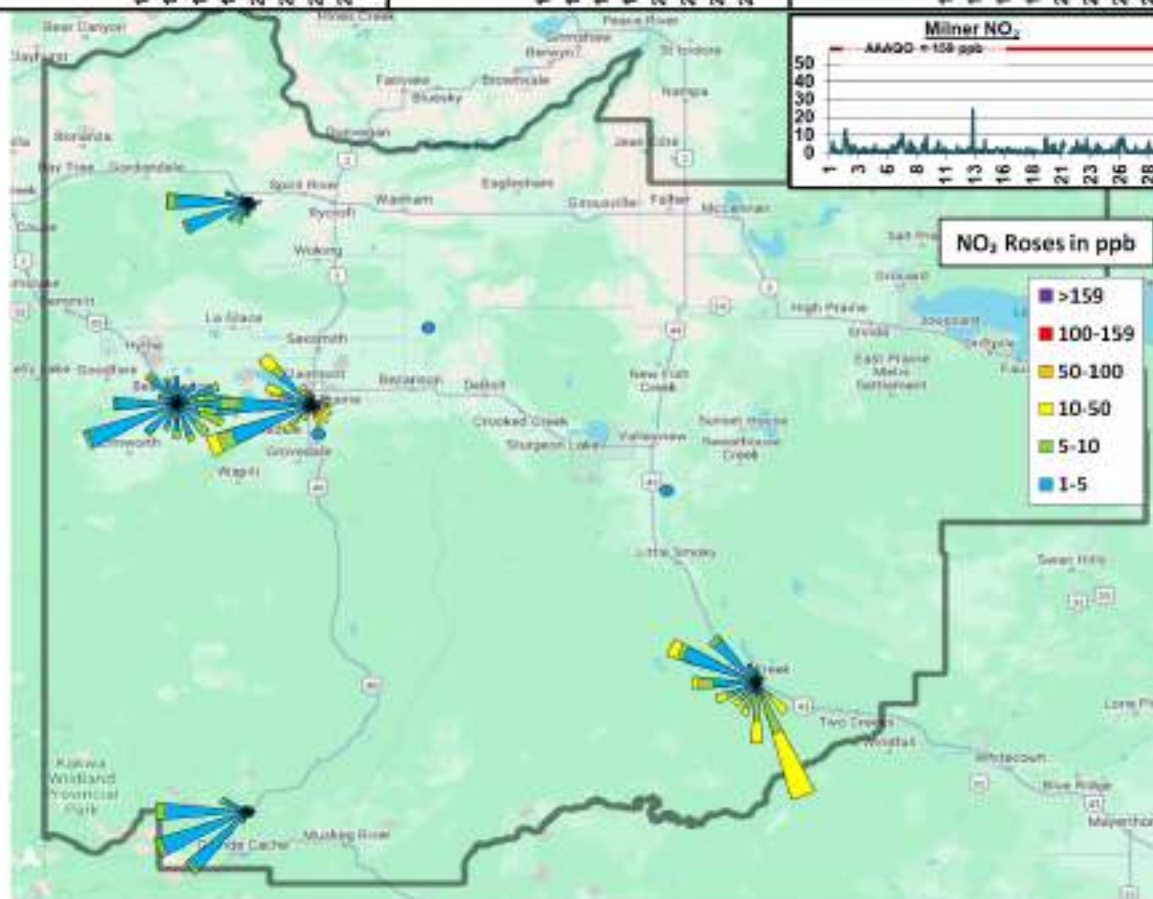
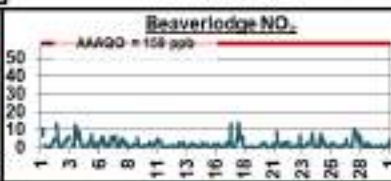
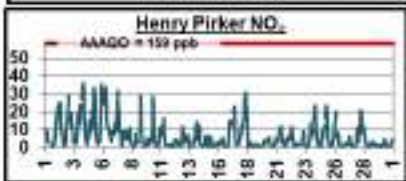
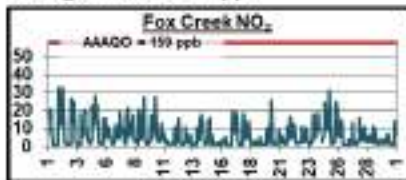
10.4 Sulphur Dioxide (SO₂) Plots



10.5 Nitrogen Dioxide (NO₂) Plots

April 2025 NO ₂ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes NO ₂	-	-
Henry Pirkler NO ₂	6.4	36.3
Smoky Heights NO ₂	-	-
Beaverlodge NO ₂	2.1	13.8
Valleyview NO ₂	-	-
Fox Creek NO ₂	6.1	32.9
Happy Valley NO ₂	1.8	25.5
Milner NO ₂	1.9	24.8

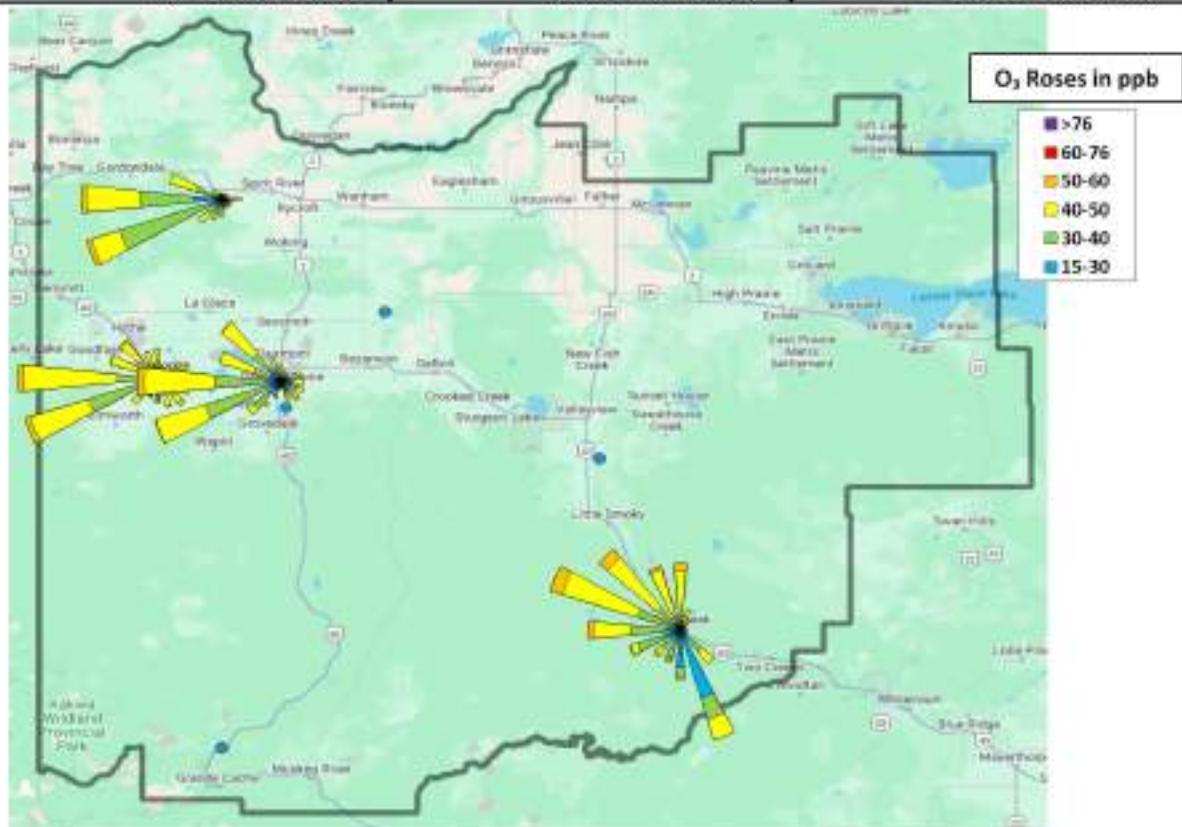
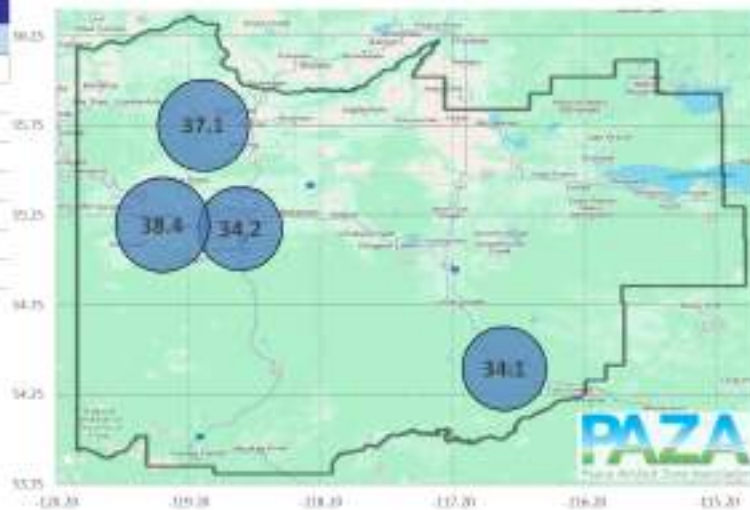
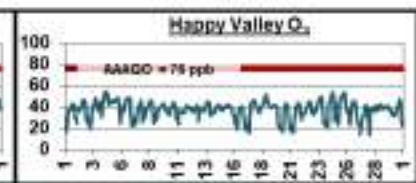
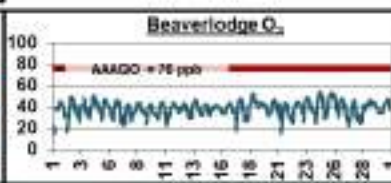
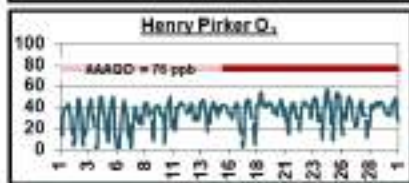
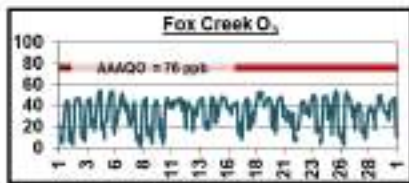
Nitrogen Dioxide in ppb



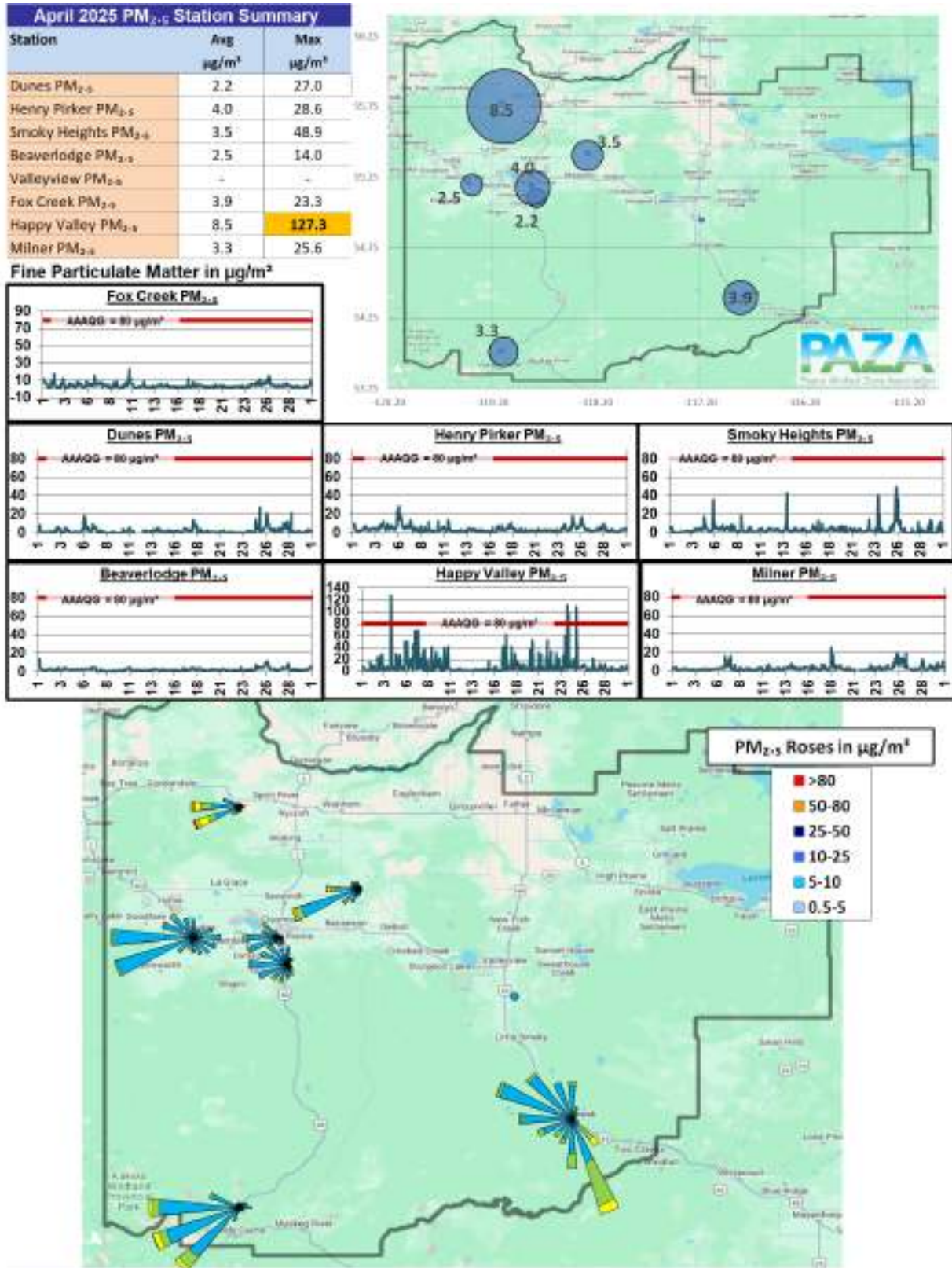
10.6 Ozone (O₃) Plots

April 2025 O ₃ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes O ₃	-	-
Henry Pirkler O ₃	34.2	56.4
Smoky Heights O ₃	-	-
Beaverlodge O ₃	38.4	53.9
Valleyview O ₃	-	-
Fox Creek O ₃	34.1	54.0
Happy Valley O ₃	37.1	54.4
Milner O ₃	-	-

Ozone in ppb

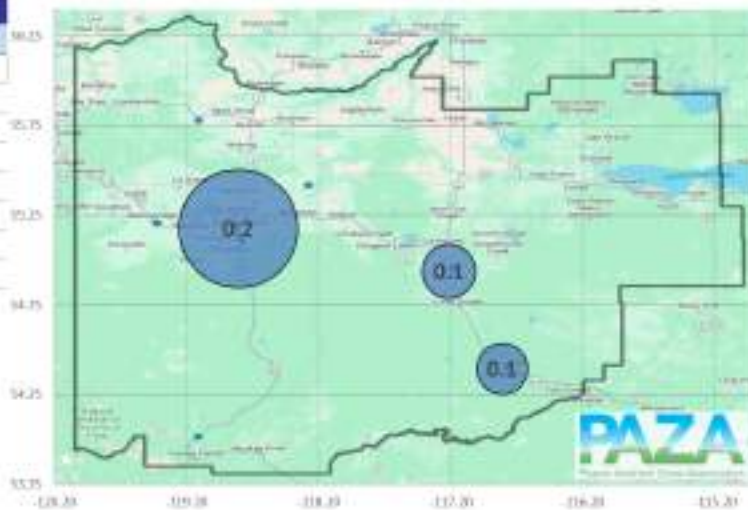


10.7 Fine Particulate Matter (PM_{2.5}) Plots

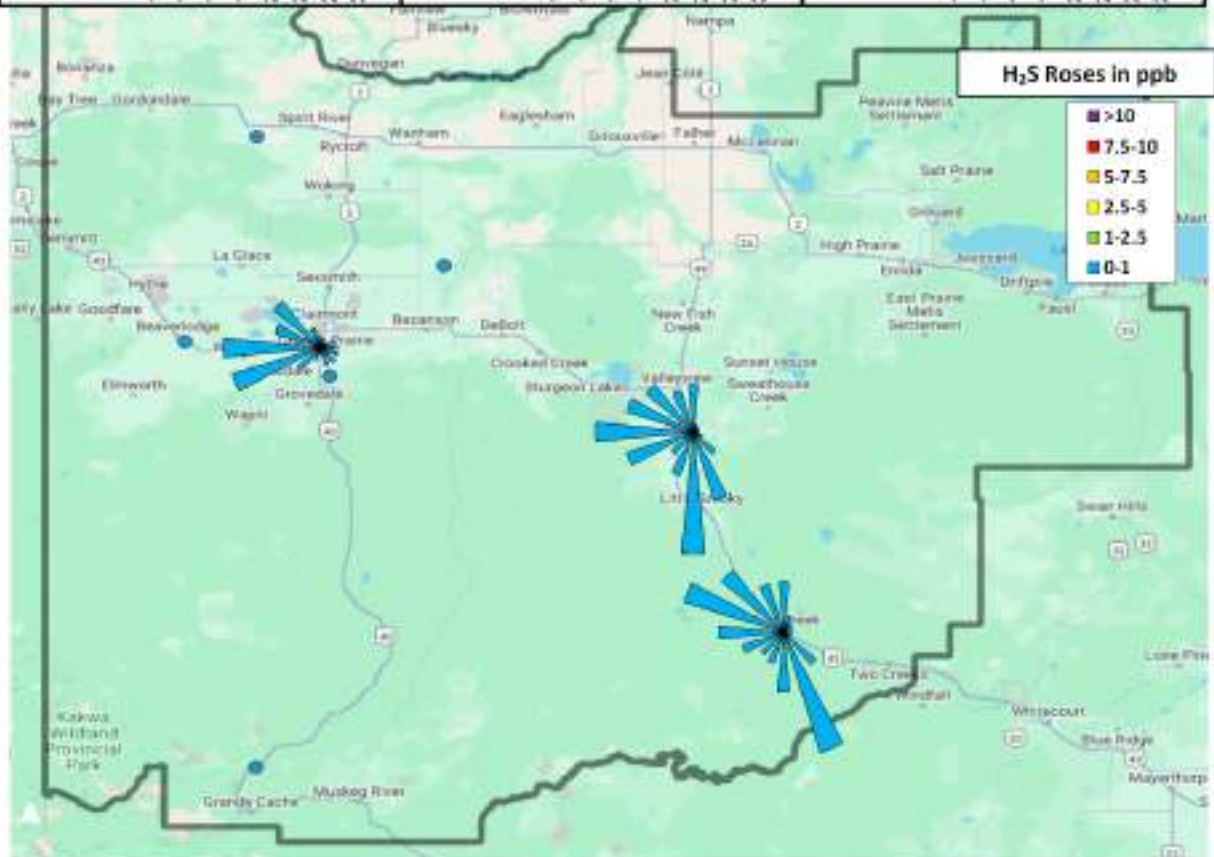


10.8 Hydrogen Sulphide (H₂S) Plots

April 2025 H ₂ S Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes H ₂ S	-	-
Henry Pirkler H ₂ S	0.2	1.3
Smoky Heights H ₂ S	-	-
Beaverlodge H ₂ S	-	-
Valleyview H ₂ S	0.1	0.9
Fox Creek H ₂ S	0.1	0.5
Happy Valley H ₂ S	-	-
Milner H ₂ S	-	-

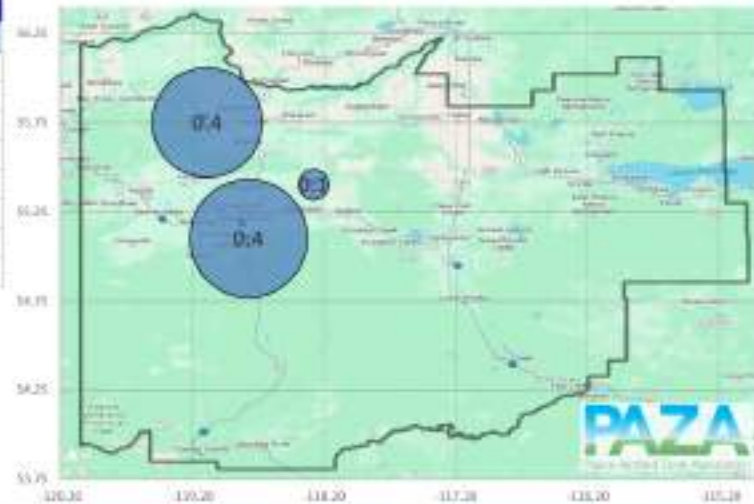


Hydrogen Sulphide in ppb



10.9 Total Reduced Sulphur (TRS) Plots

April 2025 TRS Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.4	1.9
Henry Panker TRS	-	-
Smoky Heights TRS	0.1	0.9
Beaverlodge TRS	-	-
Valleyview TRS	-	-
Fox Creek TRS	-	-
Happy Valley TRS	0.4	4.9
Milner TRS	-	-



Total Reduced Sulphur in ppb

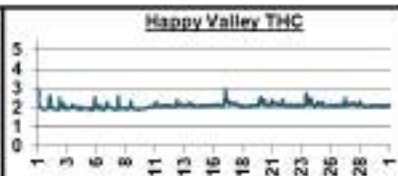
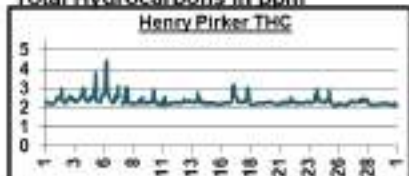


10.10 Total Hydrocarbon (THC) Plots

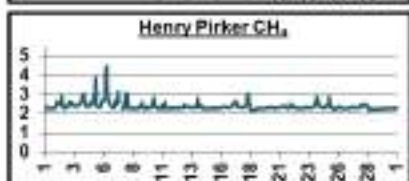
April 2025 THC Station Summary

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	4.5	2.4	4.5	0.01	0.74
Smoky Heights THC	-	-	-	-	-	-
Beaverlodge THC	-	-	-	-	-	-
Valleyview THC	-	-	-	-	-	-
Fox Creek THC	-	-	-	-	-	-
Happy Valley THC	2.1	3.0	-	-	-	-

Total Hydrocarbons in ppm



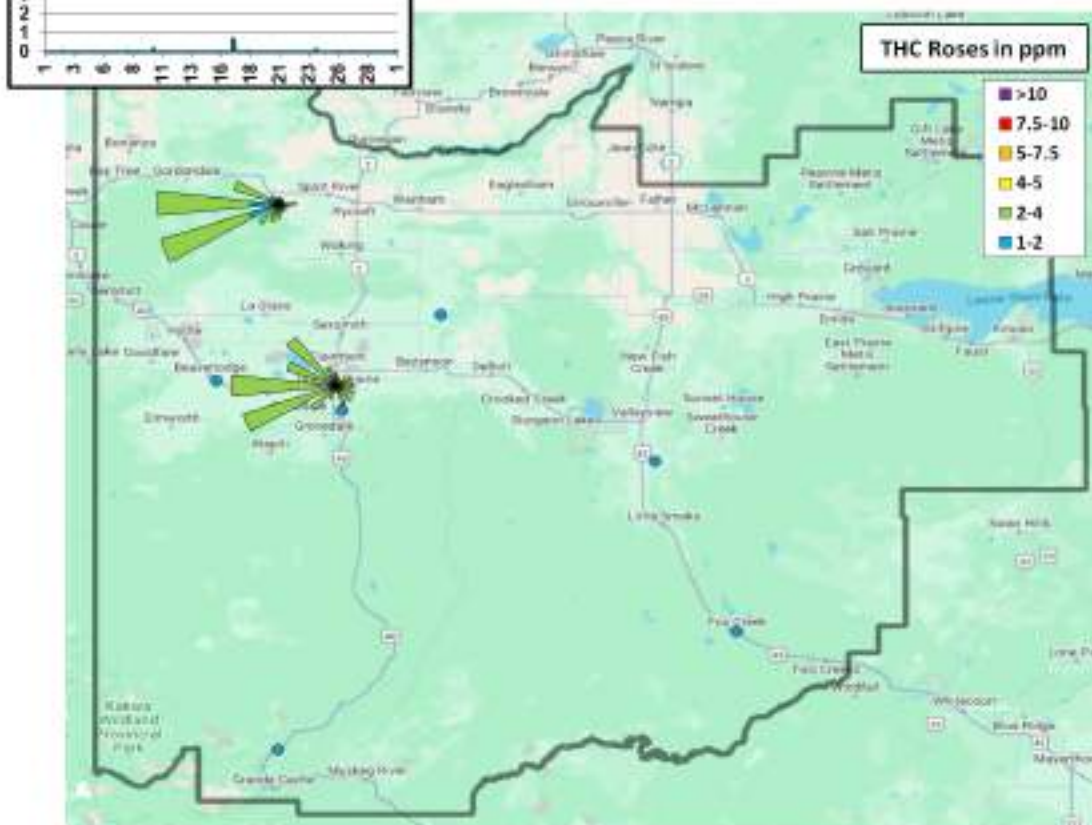
Total Hydrocarbons (THC)



Methane (CH₄)



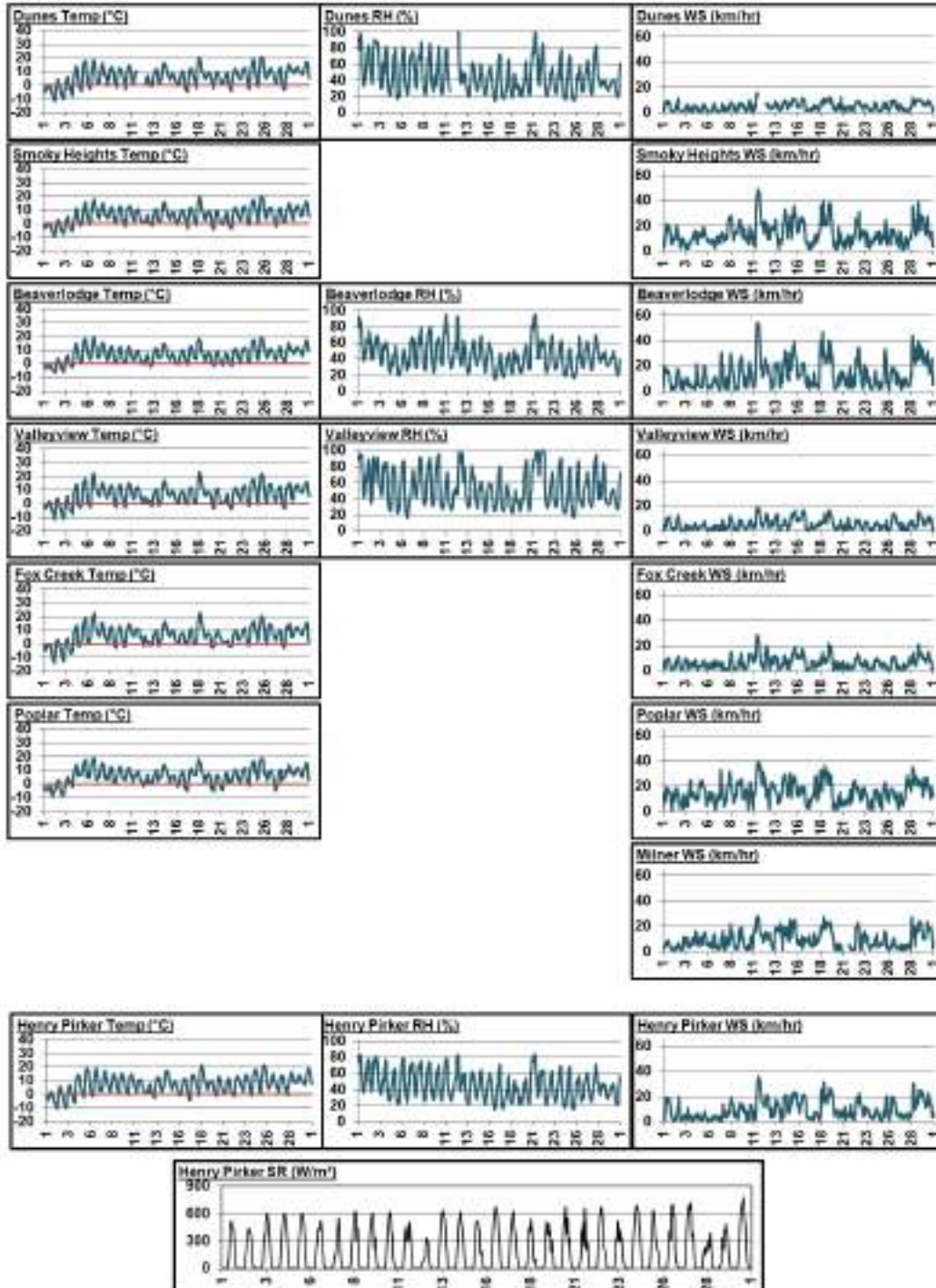
Non-Methane Hydrocarbons (NMHC)



10.11 Meteorology Summary

April 2025 Meteorological Summary						
Station	Temp (°C)	RH (%)	SR (W/m²)	WS (km/hr)	WD (deg)	WD
Dunes	6.2	85.6	-	8.8	276	W
Henry Parker	7.1	45.2	177.5	9.5	270	W
Smoky Heights	5.8	-	-	14.0	254	WSW
Beaverlodge	6.3	44.6	-	13.5	267	W
Valleyview	6.1	53.8	-	5.4	272	W
Fox Creek	5.7	-	-	6.6	284	WSW
Happy Valley	-5.7	-	-	15.2	256	WSW
Milner	-	-	-	9.4	244	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 April 2025

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
1a	Silver Valley			0.3		08-27-081-11 W6M
1b	Silver Valley			0.3		
2a	Bay Tree		46.3			13-16-078-13 W6M
2b	Bay Tree		44.1			
9a	Spirit River	0.3				08-12-079-07 W6M
9b	Spirit River	0.3				
19a	Wanham	0.3				16-22-077-03 W6M
19b	Wanham	0.3				
21a	Eaglesham			0.1		16-21-079-25 W5M
21b	Eaglesham			0.1		
35a	Jean Cote	0.1				12-35-079-21 W5M
35b	Jean Cote	0.1				
36a	Guy			0.2		03-04-076-22 W5M
36b	Guy			0.2		
42a	Sunset House			0.1		05-32-070-19 W5M
42b	Sunset House			1.9		
50a	East Prairie	0.1				11-13-079-08 W6M
50b	East Prairie	0.1				
D1a	Duvernay 1	0.2			0.06	04-33-062-20 W5M
D1b	Duvernay 1	0.2			0.04	
K4a	Kakwa 4			2.7		06-18-063-04 W6M
K4b	Kakwa 4			4.4		
K1a	Kakwa 1	0.3				01-13-063-05 W6M
K1b	Kakwa 1	0.3				
K2a	Kakwa 2				<0.02	08-13-063-05 W6M
K2b	Kakwa 2				<0.02	
M9Aa	Milner Pipeline			0.8		12-14-058-08 W6M
M9Ab	Milner Pipeline			0.8		
M10a	Milner Powerline	<0.1				06-14-058-08 W6M
M10b	Milner Powerline	<0.1				
J5Da	Jayar5 Camp			8.8		11-08-062-03 W6M
J5Db	Jayar5 Camp			9.3		
J1Da	Jayar1 Plant	0.2				06-08-062-03 W6M
J1Db	Jayar1 Plant	0.3				
J2Da	Jayar2 14-8				<0.02	07-08-062-03 W6M
J2Db	Jayar2 14-8				<0.02	

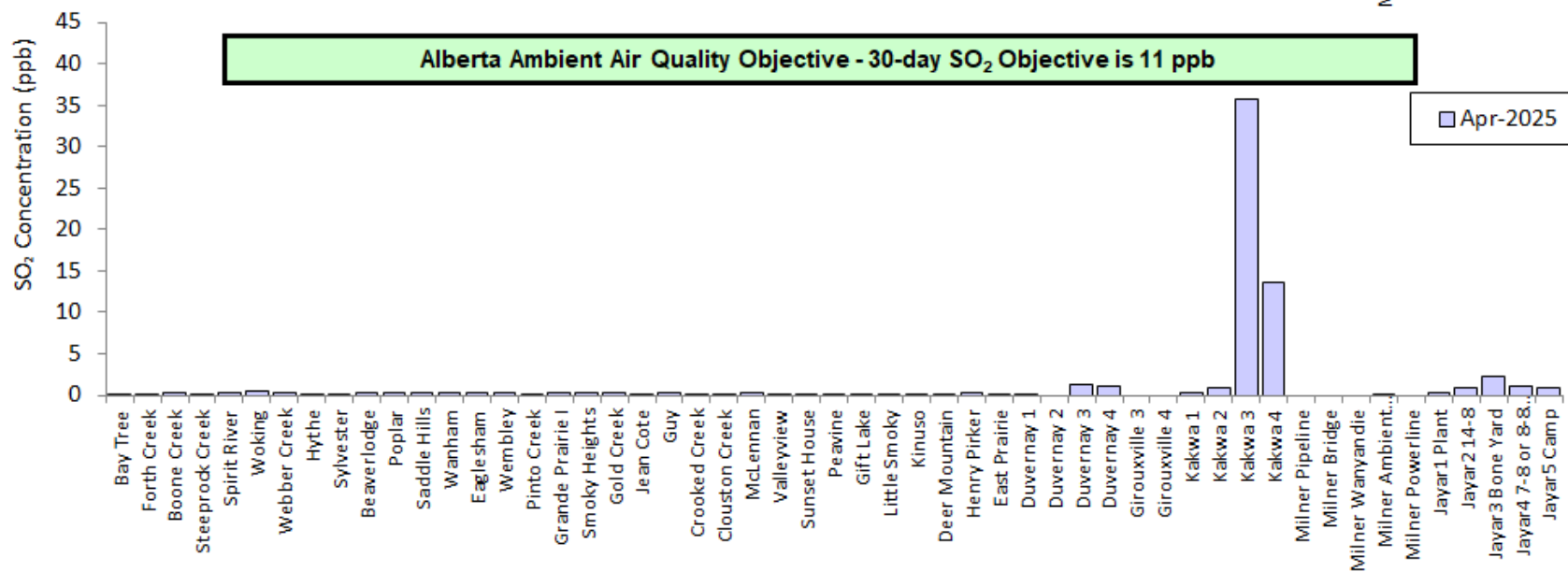
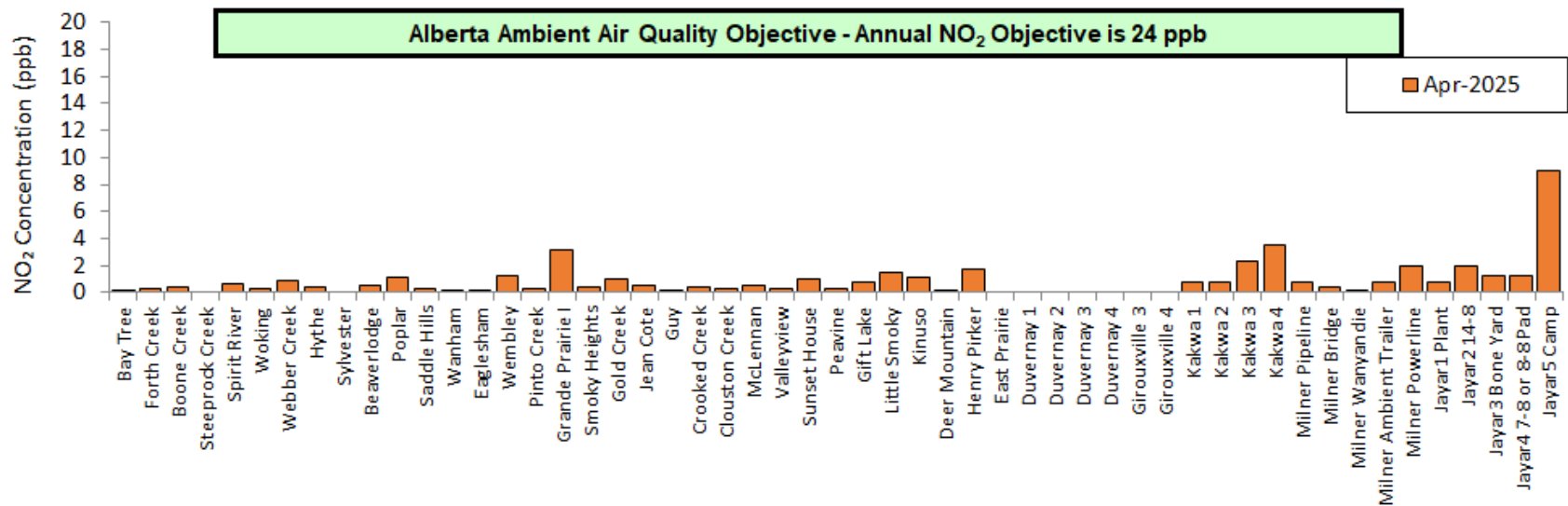
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
1	Silver Valley	0.2	-	0.3	-	08-27-081-11 W6M
2	Bay Tree	0.2	45.2	0.1	-	13-16-078-13 W6M
3	Forth Creek	0.2	-	0.2	-	04-13-082-07 W6M
5	Boone Creek	0.3	-	0.4	-	01-23-076-11 W6M
7	Steepprock Creek	0.1	-	0.0	-	09-35-072-13 W6M
9	Spirit River	0.3	-	0.6	-	08-12-079-07 W6M
10	Woking	0.4	-	0.3	-	01-13-076-07 W6M
11	Webber Creek	0.4	-	0.9	-	09-36-074-09 W6M
12	Hythe	0.1	-	0.4	-	14-36-072-11 W6M
14	Sylvester	0.0	-	0.0	-	08-06-069-12 W6M
16	Beaverlodge	0.4	-	0.5	-	15-36-071-10 W6M
17	Poplar	0.3	-	1.2	-	13-06-073-08 W6M
18	Saddle Hills	0.4	-	0.3	-	04-25-074-07 W6M
19	Wanham	0.3	-	0.1	-	16-22-077-03 W6M
21	Eaglesham	0.2	-	0.1	-	16-21-079-25 W5M
24	Wembley	0.4	-	1.2	-	12-31-070-08 W6M
25	Pinto Creek	0.1	-	0.2	-	04-24-069-11 W6M
27	Grande Prairie I	0.4	-	3.1	-	08-15-071-06 W6M
29	Smoky Heights	0.4	-	0.4	-	04-06-075-02 W6M
32	Gold Creek	0.3	-	1.0	-	06-33-067-05 W6M
35	Jean Cote	0.1	-	0.5	-	12-35-079-21 W5M
36	Guy	0.2	-	0.2	0.1	03-04-076-22 W5M
37	Crooked Creek	0.1	36.3	0.4	-	16-01-071-26 W5M
39	Clouston Creek	0.1	-	0.2	-	12-01-073-22 W5M
40	McLennan	0.4	-	0.6	-	03-29-077-19 W5M
41	Valleyview	0.2	-	0.3	-	09-30-069-22 W5M
42	Sunset House	0.2	-	1.0	-	05-32-070-19 W5M
44	Peavine	0.1	-	0.3	-	03-05-079-15 W5M
45	Gift Lake	0.1	-	0.8	-	10-07-079-12 W5M
46	Little Smoky	0.1	-	1.4	-	12-01-065-21 W5M
47	Kinuso	0.1	41.2	1.1	-	12-10-073-10 W5M
48	Deer Mountain	0.1	-	0.0	-	15-22-068-09 W5M
49	Henry Pirker	0.3	-	1.7	-	17-26-071-06 W6M
50	East Prairie	0.1	-	0.0	-	11-13-079-08 W6M
D1	Duvernay 1	0.2	-	-	0.05	04-33-062-20 W5M
D2	Duvernay 2	-	-	-	Not Collected	04-33-062-20 W5M
D3	Duvernay 3	1.2	-	-	0.02	04-33-062-20 W5M
D4	Duvernay 4	1.0	-	-	0.07	04-33-062-20 W5M
G3	Girouxville 3	-	-	-	0.35	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	0.32	04-08-077-22 W5M
K1	Kakwa 1	0.3	-	0.8	<0.02	01-13-063-05 W6M
K2	Kakwa 2	0.8	-	0.7	<0.02	08-13-063-05 W6M
K3	Kakwa 3	35.8	-	2.3	0.34	12-18-063-04 W6M
K4	Kakwa 4	13.7	-	3.6	0.16	06-18-063-04 W6M
M1	Milner Pipeline	<0.1	-	0.8	-	12-14-058-08 W6M
M2	Milner Bridge	<0.1	-	0.4	-	08-06-057-08 W6M
M3	Milner Wanyandie	<0.1	-	0.2	-	11-13-058-08 W6M
M4	Milner Ambient Trailer	0.1	-	0.7	-	09-15-058-08 W6M
M5	Milner Powerline	<0.1	-	1.9	-	06-14-058-08 W6M
J1	Jayar1 Plant	0.3	-	0.8	<0.02	06-08-062-03 W6M
J2	Jayar2 14-8	0.8	-	1.9	<0.02	07-08-062-03 W6M
J3	Jayar3 Bone Yard	2.3	-	1.2	<0.02	14-08-062-03 W6M
J4	Jayar4 7-8 or 8-8 Pad	1.0	-	1.2	<0.02	10-08-062-03 W6M
J5	Jayar5 Camp	0.9	-	9.1	0.36	11-08-062-03 W6M

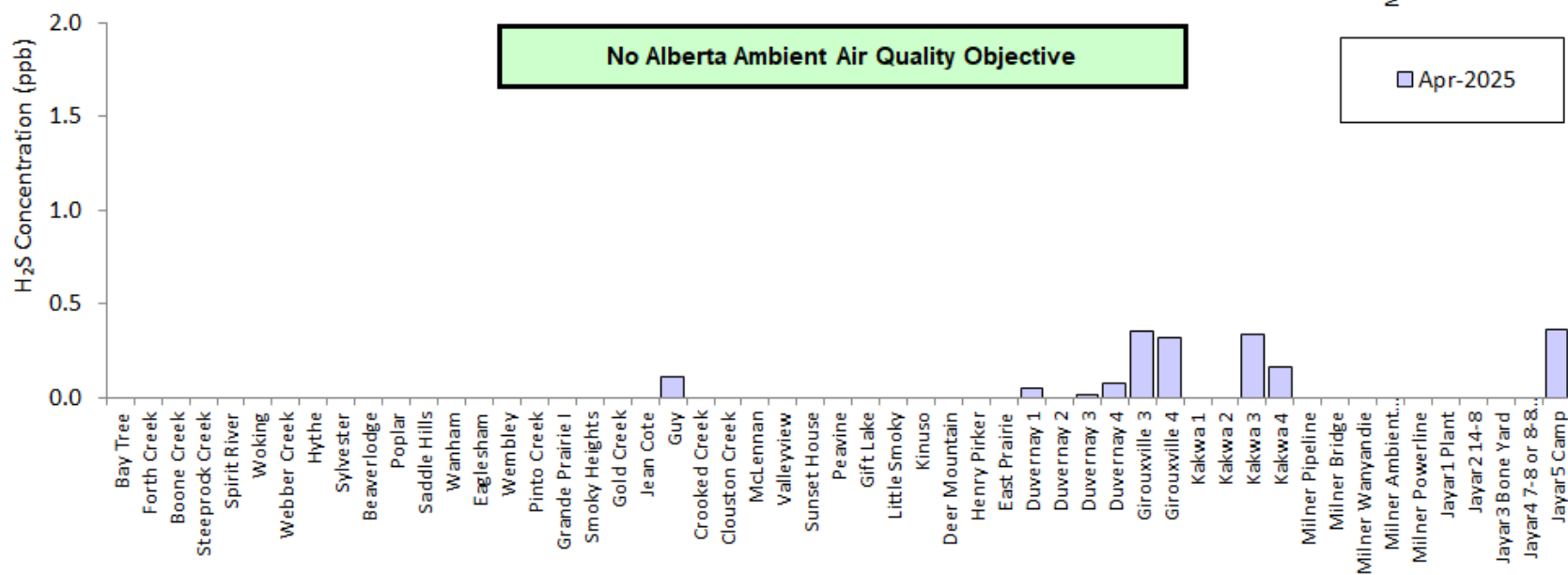
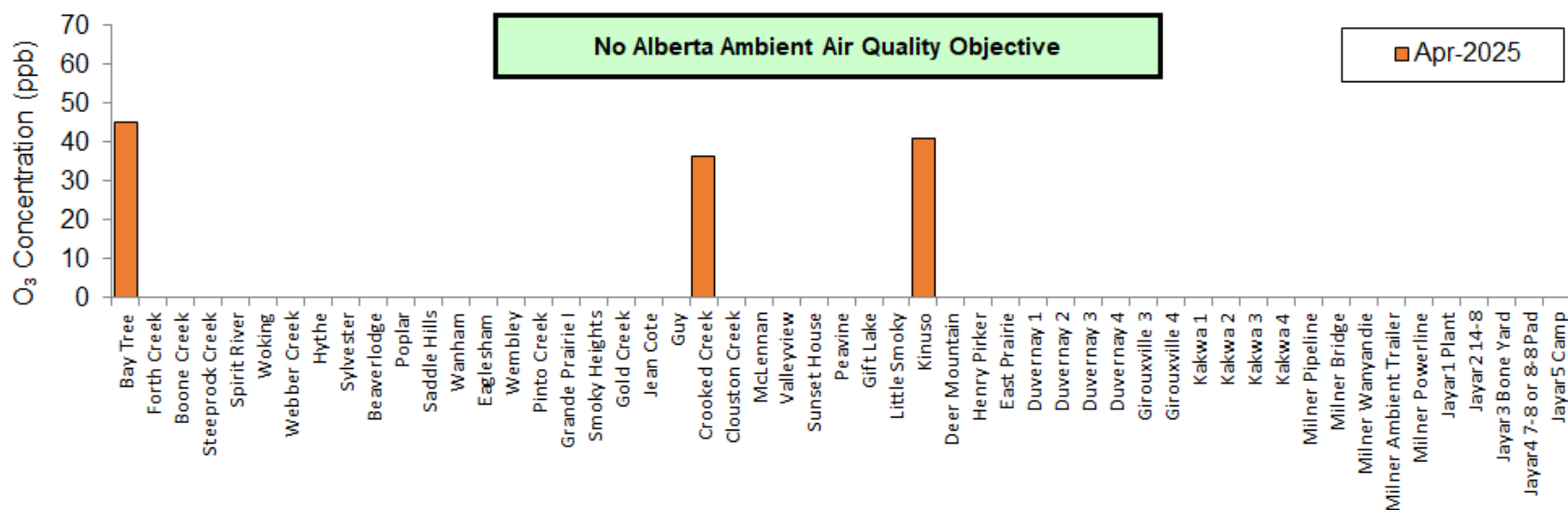
Passive Summary for April 2025

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂	Hydrogen Sulphide H ₂ S
	ppb	ppb	ppb	ppb

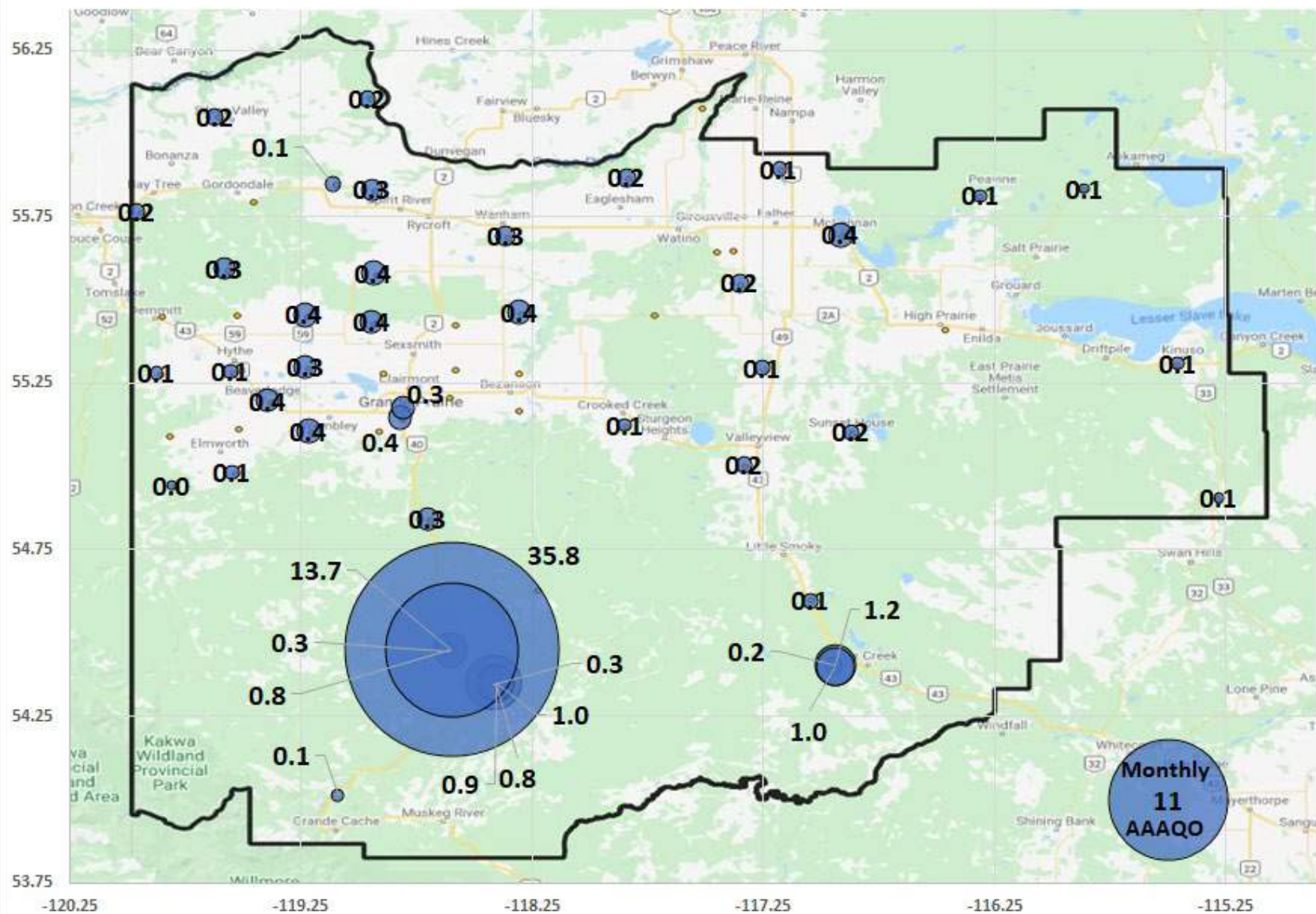
Passive Summary for April 2025 (PAZA)				
Mean	1.4	40.9	0.9	0.2
Standard Deviation	5.5	4.5	1.4	0.1
Minimum	0.0	36.3	0.0	0.0
	Sylvester (#14)	Crooked Creek (#37)	Steepprock Creek (#7)	Duvernay 3 (#D3)
Maximum	35.8	45.2	9.1	0.4
	Kakwa 3 (#K3)	Bay Tree (#2)	Jayar5 Camp (#J5)	Gordondale (#4)

Continuous and Passive Monitoring Comparision				
PAZA Beaverlodge Station	0.2	38.4	2.1	-
Beaverlodge Passive (#16)	0.4	-	0.5	-
PAZA Henry Pirker Station	0.2	34.2	6.4	0.2
Henry Pirker passive (#49)	0.3	-	1.7	-
Milner Station	-	-	1.9	-
Milner passive	0.1	-	0.7	-

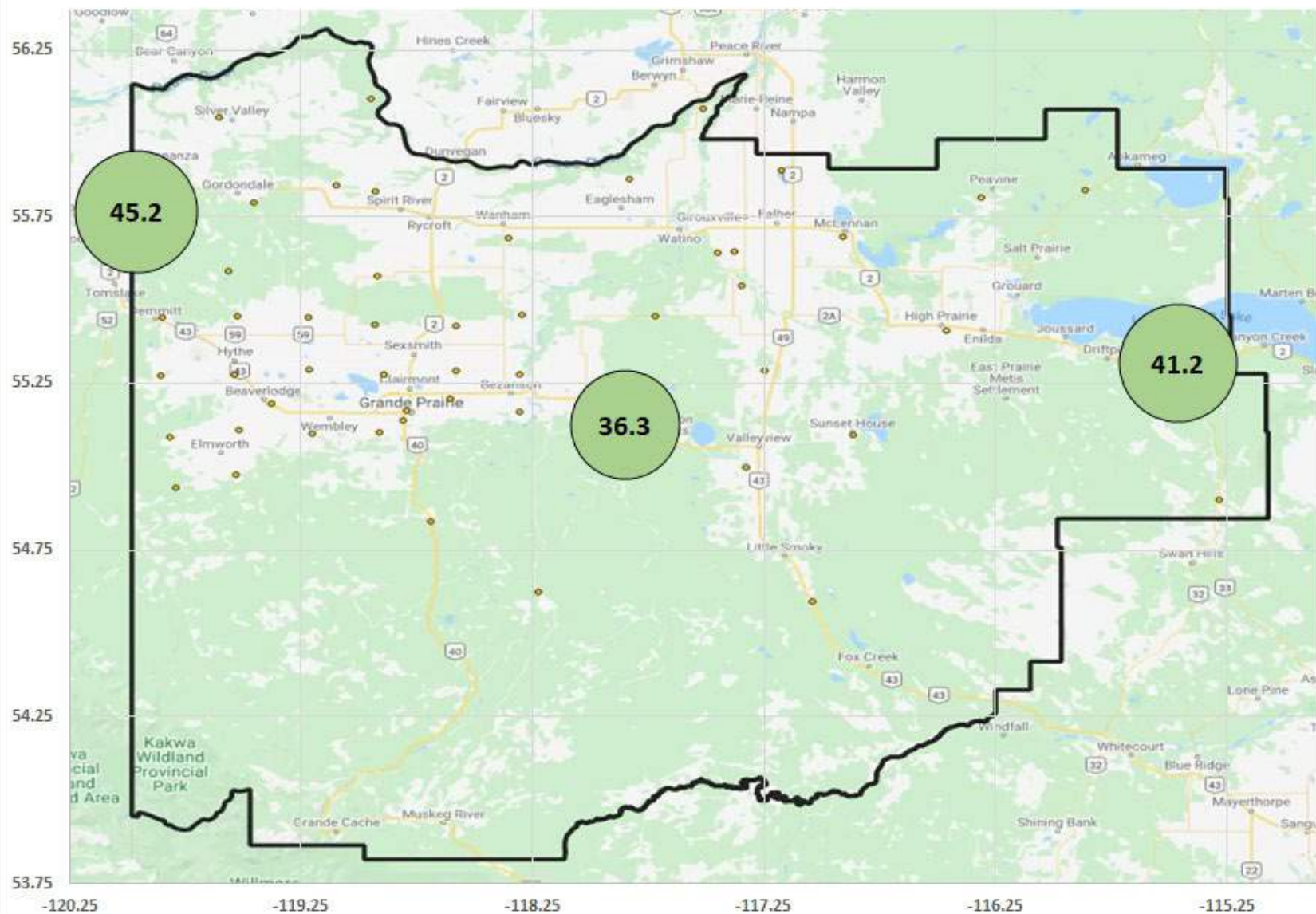




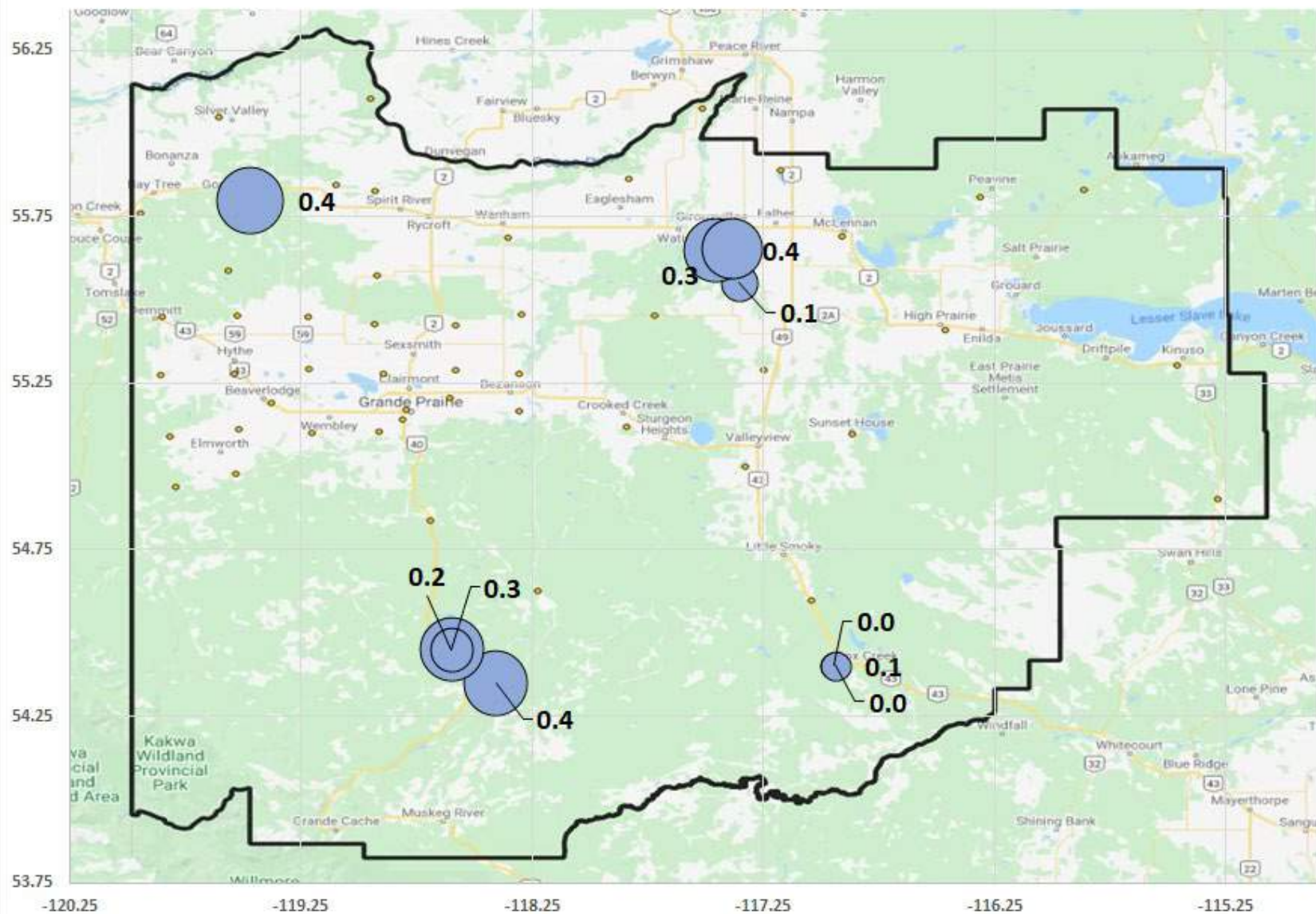
SO₂ Monthly Average (units in ppb)



O₃ Monthly Average (units in ppb)



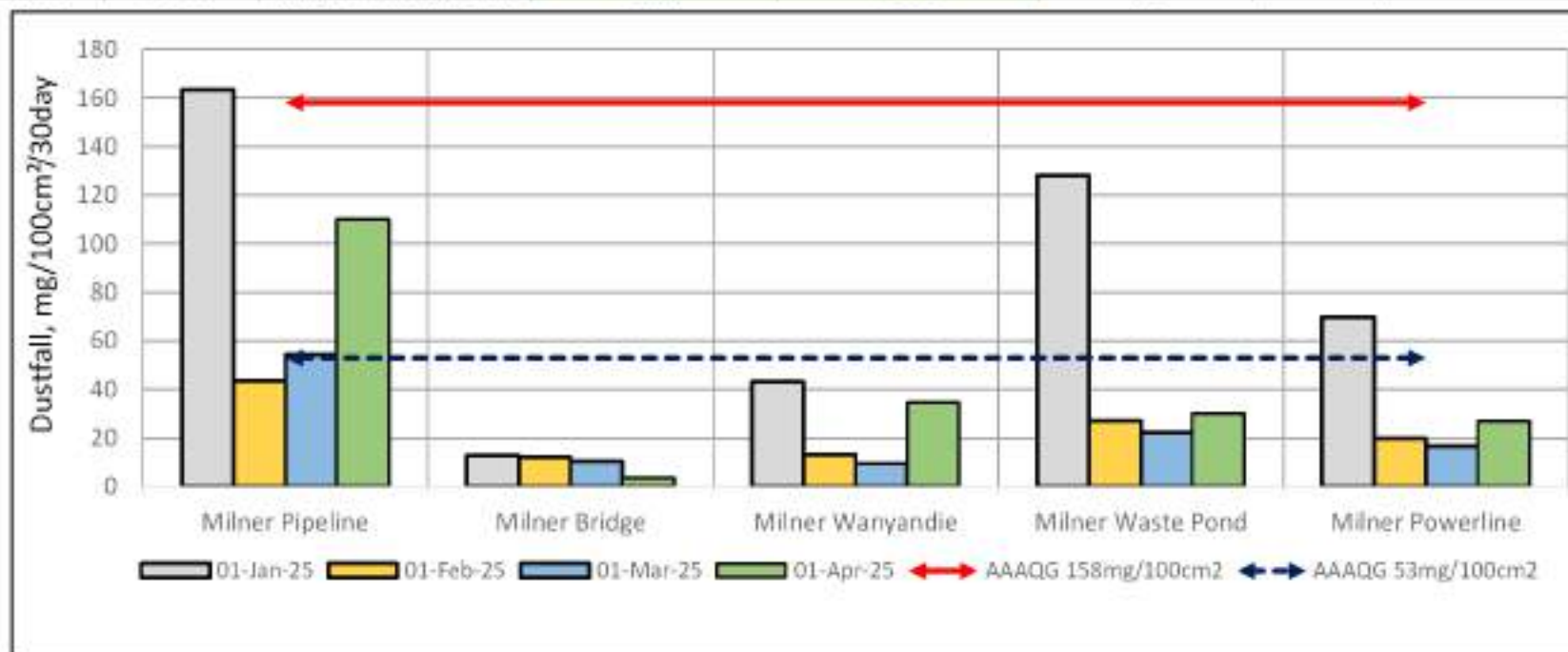
H₂S Monthly Average (units in ppb)



12 Dustfall Monitoring Data

Milner Dustfall Samples April 2025

Exposure Month	Year	Sample	Total Dustfall (30 day) mg/100cm ² /30day	Fixed Dustfall (30 day) mg/100cm ² /30day	Exposure days	Field Notes
April	2025	Milner Pipeline	110.0	47.0	29	
April	2025	Milner Bridge	3.4	1.7	29	
April	2025	Milner Wanyandie	34.4	5.9	29	
April	2025	Milner Waste Pond	30.2	5.0	29	
April	2025	Milner Powerline	26.9	15.1	29	
April	2025	Milner Powerline Dup	22.7	10.1	29	RPD, 17% / 40%



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

April 2025